

Appendix J

Laboratory Analytical Data

ANALYTICAL REPORT

PREPARED FOR

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Generated 6/5/2025 11:04:30 PM

JOB DESCRIPTION

166 E 4th Street

JOB NUMBER

480-229710-1

Eurofins Buffalo

Job Notes

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Authorization



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Definitions/Glossary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
vs	Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035A- L low-level specifications.

GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

LCMS

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
^5-	Linear Range Check (LRC) is outside acceptance limits, low biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid

Definitions/Glossary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Brydges Engineering in Environment & Energy DPC
Project: 166 E 4th Street

Job ID: 480-229710-1

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Job Narrative 480-229710-1

Receipt

The samples were received on 5/27/2025 5:57 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 13.2° C and 14.1° C.

Receipt Exceptions

The following sample(s) was listed on the Chain of Custody (COC); however, no sample(s) was received: Lab did not receive volume for the following samples. RI-BH-9 Fill, RI-BH-10 Fill and RI-BH-10 Native. Lab did not log samples.

COC lists sample RI-BH-3 Native, however sample container lists RI-BH-3 Fill. Also sample RI-BH-4 Native is actually RI-BH-4 Fill. Lab logged samples according to IDs on sample container.

GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-747320 recovered above the upper control limit for 2-Butanone (MEK) and Methylene Chloride. The samples associated with this CCV were non-detects above the reporting limit for the affected analytes; therefore, the data have been reported. The associated samples are: RI-BH-7 Native (480-229710-1), RI-BH-8 Fill (480-229710-2), RI-BH-8 Native (480-229710-3), RI-BH-11 Fill (480-229710-7), RI-BH-17 Native (480-229710-16), RI-BH-18 Fill (480-229710-17) and RI-BH-18 Native (480-229710-18).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-747320 recovered above the upper control limit for 2-Butanone (MEK). The sample(s) associated with this CCV were non-detects above the reporting limit for the affected analytes; therefore, the data have been reported. The associated samples are: RI-BH-11 Native (480-229710-8), RI-BH-12 Fill (480-229710-9), RI-BH-13 Fill (480-229710-10), RI-BH-14 Fill (480-229710-11), RI-BH-15 Fill (480-229710-12), RI-BH-15 Native (480-229710-13), RI-BH-16 Fill (480-229710-14) and RI-BH-17 Fill (480-229710-15).

Method 8260C: The continuing calibration verification (CCV) analyzed in batch 480-747320 was outside the method criteria for the following analyte: Methylene Chloride. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated. The associated samples are: RI-BH-11 Native (480-229710-8), RI-BH-12 Fill (480-229710-9), RI-BH-13 Fill (480-229710-10), RI-BH-14 Fill (480-229710-11), RI-BH-15 Fill (480-229710-12), RI-BH-15 Native (480-229710-13), RI-BH-16 Fill (480-229710-14) and RI-BH-17 Fill (480-229710-15).

Method 8260C: The method blank for preparation batch 480-747322 and analytical batch 480-747323 contained Methylene Chloride above the reporting limit (RL). This compound is considered a common laboratory contaminant. The associated samples were not re-extracted and/or re-analyzed because the concentration of the common lab contaminant in the method blank was less than 5 times the RL. The associated samples are: RI-BH-1 Native (480-229710-20), RI-BH-2 Native (480-229710-22), RI-BH-5 Native (480-229710-26) and RI-BH-6 Fill (480-229710-27).

Method 8260C: Internal standard (ISTD) response and/or Surrogate response for the following samples were outside control limits: RI-BH-1 Fill (480-229710-19), RI-BH-2 Fill (480-229710-21), RI-BH-3 Fill (480-229710-23), RI-BH-4 Fill (480-229710-24), RI-BH-5 Fill (480-229710-25) and RI-BH-6 Native (480-229710-28). The sample(s) was re-extracted and/or re-analyzed and ISTD response was outside control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

Method 6010D: The linear range check (LRC) standard recovery associated with 480-747391 is outside the acceptance criteria for the following analytes: Silver, Beryllium, Nickel, and Zinc. The concentration of these analyte(s) in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported.

Method 6010D: The following sample was diluted due to the nature of the sample matrix: RI-BH-8 Fill (480-229710-2). Elevated reporting limits (RLs) are provided.

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Case Narrative

Client: Brydges Engineering in Environment & Energy DPC
Project: 166 E 4th Street

Job ID: 480-229710-1

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Method 6010D: The linear range check (LRC) standard recovery associated with 480-747461 is outside the acceptance criteria for the following analytes: total Silver, Beryllium, Calcium, Chromium, Iron, Manganese, Nickel, Vanadium, and Zinc. The concentration of these analyte(s) in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported.

Method 6010D: The linear range check (LRC) standard recovery associated with 480-747461 is outside the acceptance criteria for the following analytes: total Silver, Beryllium, Calcium, Chromium, Nickel, Vanadium, and Zinc. The concentration of these analyte(s) in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported.

Method 6010D: The linear range check (LRC) standard recovery associated with 480-747461 is outside the acceptance criteria for the following analytes: total Silver, Beryllium, Chromium, Nickel, Vanadium, and Zinc. The concentration of these analyte(s) in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported.

Method 6010D: The linear range check (LRC) standard recovery associated with 480-747461 is outside the acceptance criteria for the following analytes: total Silver, Beryllium, Calcium, Chromium, Nickel, Vanadium, and Zinc. The concentration of these analyte(s) in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported.

Method 6010D: The linear range check (LRC) standard recovery associated with 480-747461 is outside the acceptance criteria for the following analytes: total Silver, Beryllium, Chromium, Nickel, Vanadium, and Zinc. The concentration of these analyte(s) in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported.

Method 6010D: The linear range check (LRC) standard recovery associated with 480-747461 is outside the acceptance criteria for the following analytes: total Silver, Beryllium, Calcium, Chromium, Manganese, Nickel, Vanadium, and Zinc. The concentration of these analyte(s) in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported.

Method 6010D: The linear range check (LRC) standard recovery associated with 480-747461 is outside the acceptance criteria for the following analytes: total Silver, Beryllium, Chromium, Iron, Manganese, Nickel, Vanadium, and Zinc. The concentration of these analyte(s) in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported.

Method 6010D: The linear range check (LRC) standard recovery associated with 480-747461 is outside the acceptance criteria for the following analytes: total Silver, Beryllium, Calcium, Chromium, Nickel, Vanadium, and Zinc. The concentration of these analyte(s) in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported.

Method 6010D: The linear range check (LRC) standard recovery associated with 480-747461 is outside the acceptance criteria for the following analytes: total Silver, Beryllium, Calcium, Chromium, Nickel, Vanadium. The concentration of these analyte(s) in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported.

Method 6010D: The linear range check (LRC) standard recovery associated with 480-747461 is outside the acceptance criteria for the following analytes: total Silver, Beryllium, Chromium, Nickel, Vanadium, and Zinc. The concentration of these analyte(s) in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported.

Method 6010D: The linear range check (LRC) standard recovery associated with 480-747461 is outside the acceptance criteria for the following analytes: total Silver, Beryllium, Calcium, Chromium, Nickel, Vanadium, and Zinc. The concentration of these analyte(s) in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

LCMS

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method 9012B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-747417 and analytical batch 480-747507 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method 3546: The following samples required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: RI-BH-7 Native (480-229710-1), RI-BH-8 Fill (480-229710-2), RI-BH-11 Fill (480-229710-7), RI-BH-12 Fill (480-229710-9), RI-BH-13 Fill (480-229710-10), RI-BH-16 Fill (480-229710-14), RI-BH-17 Fill (480-229710-15), RI-BH-17 Native (480-229710-16), RI-BH-18 Fill (480-229710-17), RI-BH-1 Fill (480-229710-19), RI-BH-1 Native (480-229710-20), RI-BH-2 Fill (480-229710-21), (480-229710-C-1

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Case Narrative

Client: Brydges Engineering in Environment & Energy DPC
Project: 166 E 4th Street

Job ID: 480-229710-1

Job ID: 480-229710-1 (Continued)

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MS) and (480-229710-C-1 MSD).

Method 3546: The following samples required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: RI-BH-4 Fill (480-229710-24), RI-BH-5 Fill (480-229710-25), RI-BH-5 Native (480-229710-26), RI-BH-7 Fill (480-229710-29), (480-229710-C-25 MS) and (480-229710-C-25 MSD).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-7 Native

Lab Sample ID: 480-229710-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.7	J vs	26	4.5	ug/Kg	1	✱	8260C	Total/NA
Chloroform	0.41	J F1 vs	5.3	0.33	ug/Kg	1	✱	8260C	Total/NA
Methylene Chloride	5.1	J B vs	5.3	2.4	ug/Kg	1	✱	8260C	Total/NA
Pyrene	42	J	180	35	ug/Kg	1	✱	8270D	Total/NA
Aluminum	11200		11.1	9.6	mg/Kg	1	✱	6010D	Total/NA
Antimony	0.96	J	16.6	0.59	mg/Kg	1	✱	6010D	Total/NA
Arsenic	11.7		2.2	0.98	mg/Kg	1	✱	6010D	Total/NA
Barium	56.1		0.55	0.16	mg/Kg	1	✱	6010D	Total/NA
Beryllium	0.72	^5-	0.22	0.044	mg/Kg	1	✱	6010D	Total/NA
Cadmium	0.20	J	0.22	0.078	mg/Kg	1	✱	6010D	Total/NA
Calcium	1140		55.4	29.9	mg/Kg	1	✱	6010D	Total/NA
Chromium	15.4		0.55	0.40	mg/Kg	1	✱	6010D	Total/NA
Cobalt	21.0		0.55	0.11	mg/Kg	1	✱	6010D	Total/NA
Copper	41.3		1.1	0.63	mg/Kg	1	✱	6010D	Total/NA
Iron	28800		11.1	9.4	mg/Kg	1	✱	6010D	Total/NA
Lead	37.6		1.1	0.51	mg/Kg	1	✱	6010D	Total/NA
Magnesium	3380		22.2	9.4	mg/Kg	1	✱	6010D	Total/NA
Manganese	324		1.1	0.31	mg/Kg	1	✱	6010D	Total/NA
Nickel	40.6	^5-	5.5	0.28	mg/Kg	1	✱	6010D	Total/NA
Potassium	2440		33.3	26.9	mg/Kg	1	✱	6010D	Total/NA
Sodium	162		155	68.0	mg/Kg	1	✱	6010D	Total/NA
Vanadium	17.1		0.55	0.14	mg/Kg	1	✱	6010D	Total/NA
Zinc	94.4	^5-	2.2	1.1	mg/Kg	1	✱	6010D	Total/NA
Mercury	0.015	J	0.021	0.0048	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: RI-BH-8 Fill

Lab Sample ID: 480-229710-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	17	J vs	33	2.4	ug/Kg	1	✱	8260C	Total/NA
Acetone	95	vs	33	5.5	ug/Kg	1	✱	8260C	Total/NA
Chloroform	0.60	J vs	6.6	0.41	ug/Kg	1	✱	8260C	Total/NA
Methylene Chloride	4.8	J B vs	6.6	3.0	ug/Kg	1	✱	8260C	Total/NA
2-Methylnaphthalene	380		220	35	ug/Kg	1	✱	8270D	Total/NA
4-Methylphenol	76	J	430	40	ug/Kg	1	✱	8270D	Total/NA
Acenaphthylene	100	J	220	43	ug/Kg	1	✱	8270D	Total/NA
Anthracene	100	J	220	41	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]anthracene	430		220	31	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	390		220	38	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	660		220	30	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	330		220	39	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	230		220	50	ug/Kg	1	✱	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	12000	E	220	48	ug/Kg	1	✱	8270D	Total/NA
Carbazole	55	J	220	44	ug/Kg	1	✱	8270D	Total/NA
Chrysene	480		220	53	ug/Kg	1	✱	8270D	Total/NA
Dibenz(a,h)anthracene	90	J	220	45	ug/Kg	1	✱	8270D	Total/NA
Dibenzofuran	86	J	220	39	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	1300		220	40	ug/Kg	1	✱	8270D	Total/NA
Fluorene	69	J	220	41	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	270		220	33	ug/Kg	1	✱	8270D	Total/NA
Naphthalene	320		220	37	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	800		220	42	ug/Kg	1	✱	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-8 Fill (Continued)

Lab Sample ID: 480-229710-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Pyrene	960		220	42	ug/Kg	1	✱		8270D	Total/NA
2-Methylnaphthalene - DL	270	J	1100	170	ug/Kg	5	✱		8270D	Total/NA
Benzo[a]anthracene - DL	450	J	1100	150	ug/Kg	5	✱		8270D	Total/NA
Benzo[b]fluoranthene - DL	600	J	1100	150	ug/Kg	5	✱		8270D	Total/NA
Benzo[g,h,i]perylene - DL	300	J	1100	190	ug/Kg	5	✱		8270D	Total/NA
Bis(2-ethylhexyl) phthalate - DL	12000		1100	240	ug/Kg	5	✱		8270D	Total/NA
Chrysene - DL	350	J	1100	270	ug/Kg	5	✱		8270D	Total/NA
Fluoranthene - DL	1200		1100	200	ug/Kg	5	✱		8270D	Total/NA
Indeno[1,2,3-cd]pyrene - DL	250	J	1100	170	ug/Kg	5	✱		8270D	Total/NA
Naphthalene - DL	270	J	1100	180	ug/Kg	5	✱		8270D	Total/NA
Phenanthrene - DL	650	J	1100	210	ug/Kg	5	✱		8270D	Total/NA
Pyrene - DL	930	J	1100	210	ug/Kg	5	✱		8270D	Total/NA
4,4'-DDD	2.7	J	4.3	0.83	ug/Kg	1	✱		8081B	Total/NA
4,4'-DDE	2.7	J	4.3	0.90	ug/Kg	1	✱		8081B	Total/NA
4,4'-DDT	4.2	J	4.3	1.0	ug/Kg	1	✱		8081B	Total/NA
Endrin ketone	2.2	J	4.3	1.1	ug/Kg	1	✱		8081B	Total/NA
gamma-BHC (Lindane)	1.2	J	4.3	0.79	ug/Kg	1	✱		8081B	Total/NA
Methoxychlor	3.6	J B	4.3	0.88	ug/Kg	1	✱		8081B	Total/NA
Aluminum	6180		66.3	57.2	mg/Kg	5	✱		6010D	Total/NA
Arsenic	7.9	J	13.3	5.8	mg/Kg	5	✱		6010D	Total/NA
Barium	124		3.3	0.93	mg/Kg	5	✱		6010D	Total/NA
Beryllium	0.86	J ^5-	1.3	0.27	mg/Kg	5	✱		6010D	Total/NA
Calcium	3370	^5-	332	179	mg/Kg	5	✱		6010D	Total/NA
Chromium	10.7	^5-	3.3	2.4	mg/Kg	5	✱		6010D	Total/NA
Cobalt	6.4		3.3	0.66	mg/Kg	5	✱		6010D	Total/NA
Copper	30.6		6.6	3.8	mg/Kg	5	✱		6010D	Total/NA
Iron	22300	^5-	66.3	56.3	mg/Kg	5	✱		6010D	Total/NA
Lead	96.6		6.6	3.1	mg/Kg	5	✱		6010D	Total/NA
Magnesium	937		133	56.3	mg/Kg	5	✱		6010D	Total/NA
Manganese	80.1	^5-	6.6	1.9	mg/Kg	5	✱		6010D	Total/NA
Nickel	19.3	J ^5-	33.2	1.7	mg/Kg	5	✱		6010D	Total/NA
Potassium	1150		199	161	mg/Kg	5	✱		6010D	Total/NA
Vanadium	20.0	^5-	3.3	0.86	mg/Kg	5	✱		6010D	Total/NA
Zinc	54.5	^5-	13.3	6.8	mg/Kg	5	✱		6010D	Total/NA
Mercury	0.24		0.026	0.0061	mg/Kg	1	✱		7471B	Total/NA

Client Sample ID: RI-BH-8 Native

Lab Sample ID: 480-229710-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	5.7	J vs	31	5.2	ug/Kg	1	✱		8260C	Total/NA
Chloroform	0.56	J vs	6.1	0.38	ug/Kg	1	✱		8260C	Total/NA
Methylene Chloride	4.0	J B vs	6.1	2.8	ug/Kg	1	✱		8260C	Total/NA
Aluminum	22600		11.7	10.1	mg/Kg	1	✱		6010D	Total/NA
Antimony	0.93	J	17.6	0.62	mg/Kg	1	✱		6010D	Total/NA
Arsenic	9.1		2.3	1.0	mg/Kg	1	✱		6010D	Total/NA
Barium	132		0.59	0.16	mg/Kg	1	✱		6010D	Total/NA
Beryllium	1.1	^5-	0.23	0.047	mg/Kg	1	✱		6010D	Total/NA
Cadmium	0.25		0.23	0.082	mg/Kg	1	✱		6010D	Total/NA
Calcium	3590	^5-	58.7	31.7	mg/Kg	1	✱		6010D	Total/NA
Chromium	26.4	^5-	0.59	0.42	mg/Kg	1	✱		6010D	Total/NA
Cobalt	29.3		0.59	0.12	mg/Kg	1	✱		6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-8 Native (Continued)

Lab Sample ID: 480-229710-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Copper	28.4		1.2	0.67	mg/Kg	1		✱	6010D	Total/NA
Iron	34200		11.7	10	mg/Kg	1		✱	6010D	Total/NA
Lead	18.3		1.2	0.54	mg/Kg	1		✱	6010D	Total/NA
Magnesium	6170		23.5	10	mg/Kg	1		✱	6010D	Total/NA
Manganese	366		1.2	0.33	mg/Kg	1		✱	6010D	Total/NA
Nickel	37.8	^5-	5.9	0.29	mg/Kg	1		✱	6010D	Total/NA
Potassium	3390		35.2	28.5	mg/Kg	1		✱	6010D	Total/NA
Selenium	1.3	J	4.7	0.94	mg/Kg	1		✱	6010D	Total/NA
Sodium	204		164	72.0	mg/Kg	1		✱	6010D	Total/NA
Vanadium	36.0	^5-	0.59	0.15	mg/Kg	1		✱	6010D	Total/NA
Zinc	80.6	^5-	2.3	1.2	mg/Kg	1		✱	6010D	Total/NA
Mercury	0.028		0.026	0.0059	mg/Kg	1		✱	7471B	Total/NA

Client Sample ID: RI-BH-11 Fill

Lab Sample ID: 480-229710-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
2-Butanone (MEK)	4.0	J vs	27	2.0	ug/Kg	1		✱	8260C	Total/NA
Acetone	36	vs	27	4.5	ug/Kg	1		✱	8260C	Total/NA
Chloroform	0.50	J vs	5.4	0.33	ug/Kg	1		✱	8260C	Total/NA
Methylene Chloride	4.4	J B vs	5.4	2.5	ug/Kg	1		✱	8260C	Total/NA
2-Methylnaphthalene	110	J	180	29	ug/Kg	1		✱	8270D	Total/NA
Acenaphthylene	44	J	180	35	ug/Kg	1		✱	8270D	Total/NA
Anthracene	89	J	180	34	ug/Kg	1		✱	8270D	Total/NA
Benzo[a]anthracene	310		180	25	ug/Kg	1		✱	8270D	Total/NA
Benzo[a]pyrene	280		180	31	ug/Kg	1		✱	8270D	Total/NA
Benzo[b]fluoranthene	370		180	24	ug/Kg	1		✱	8270D	Total/NA
Benzo[g,h,i]perylene	210		180	32	ug/Kg	1		✱	8270D	Total/NA
Benzo[k]fluoranthene	220		180	41	ug/Kg	1		✱	8270D	Total/NA
Chrysene	410		180	44	ug/Kg	1		✱	8270D	Total/NA
Dibenz(a,h)anthracene	61	J	180	37	ug/Kg	1		✱	8270D	Total/NA
Fluoranthene	760		180	33	ug/Kg	1		✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	180		180	27	ug/Kg	1		✱	8270D	Total/NA
Phenanthrene	380		180	34	ug/Kg	1		✱	8270D	Total/NA
Pyrene	570		180	35	ug/Kg	1		✱	8270D	Total/NA
4,4'-DDE	0.74	J	3.5	0.73	ug/Kg	1		✱	8081B	Total/NA
4,4'-DDT	2.8	J	3.5	0.81	ug/Kg	1		✱	8081B	Total/NA
Endrin ketone	1.5	J	3.5	0.85	ug/Kg	1		✱	8081B	Total/NA
Aluminum	11600		10.9	9.4	mg/Kg	1		✱	6010D	Total/NA
Antimony	0.80	J	16.3	0.58	mg/Kg	1		✱	6010D	Total/NA
Arsenic	11.5		2.2	0.96	mg/Kg	1		✱	6010D	Total/NA
Barium	95.7		0.54	0.15	mg/Kg	1		✱	6010D	Total/NA
Beryllium	0.80	^5-	0.22	0.044	mg/Kg	1		✱	6010D	Total/NA
Cadmium	0.26		0.22	0.076	mg/Kg	1		✱	6010D	Total/NA
Calcium	37400		54.4	29.4	mg/Kg	1		✱	6010D	Total/NA
Chromium	17.0	^5-	0.54	0.39	mg/Kg	1		✱	6010D	Total/NA
Cobalt	8.5		0.54	0.11	mg/Kg	1		✱	6010D	Total/NA
Copper	29.3		1.1	0.62	mg/Kg	1		✱	6010D	Total/NA
Iron	28100		10.9	9.2	mg/Kg	1		✱	6010D	Total/NA
Lead	67.5		1.1	0.50	mg/Kg	1		✱	6010D	Total/NA
Magnesium	5190		21.8	9.2	mg/Kg	1		✱	6010D	Total/NA
Manganese	615		1.1	0.30	mg/Kg	1		✱	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-11 Fill (Continued)

Lab Sample ID: 480-229710-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	19.8	^5-	5.4	0.27	mg/Kg	1	✱	6010D	Total/NA
Potassium	1900		32.6	26.4	mg/Kg	1	✱	6010D	Total/NA
Sodium	281		152	66.7	mg/Kg	1	✱	6010D	Total/NA
Vanadium	19.6	^5-	0.54	0.14	mg/Kg	1	✱	6010D	Total/NA
Zinc	73.8	^5-	2.2	1.1	mg/Kg	1	✱	6010D	Total/NA
Mercury	0.043		0.022	0.0051	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: RI-BH-11 Native

Lab Sample ID: 480-229710-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	9.1	J vs	31	5.2	ug/Kg	1	✱	8260C	Total/NA
Chloroform	0.55	J vs	6.2	0.38	ug/Kg	1	✱	8260C	Total/NA
Methylene Chloride	8.7	B vs	6.2	2.8	ug/Kg	1	✱	8260C	Total/NA
Aluminum	23100		13.5	11.6	mg/Kg	1	✱	6010D	Total/NA
Arsenic	8.7		2.7	1.2	mg/Kg	1	✱	6010D	Total/NA
Barium	162		0.67	0.19	mg/Kg	1	✱	6010D	Total/NA
Beryllium	0.97	^5-	0.27	0.054	mg/Kg	1	✱	6010D	Total/NA
Cadmium	0.16	J	0.27	0.094	mg/Kg	1	✱	6010D	Total/NA
Calcium	3020	^5-	67.3	36.3	mg/Kg	1	✱	6010D	Total/NA
Chromium	28.5	^5-	0.67	0.48	mg/Kg	1	✱	6010D	Total/NA
Cobalt	10.7		0.67	0.13	mg/Kg	1	✱	6010D	Total/NA
Copper	24.3		1.3	0.77	mg/Kg	1	✱	6010D	Total/NA
Iron	33400		13.5	11.4	mg/Kg	1	✱	6010D	Total/NA
Lead	12.9		1.3	0.62	mg/Kg	1	✱	6010D	Total/NA
Magnesium	5860		26.9	11.4	mg/Kg	1	✱	6010D	Total/NA
Manganese	309		1.3	0.38	mg/Kg	1	✱	6010D	Total/NA
Nickel	35.3	^5-	6.7	0.34	mg/Kg	1	✱	6010D	Total/NA
Potassium	4090		40.4	32.6	mg/Kg	1	✱	6010D	Total/NA
Sodium	416		189	82.6	mg/Kg	1	✱	6010D	Total/NA
Vanadium	39.0	^5-	0.67	0.18	mg/Kg	1	✱	6010D	Total/NA
Zinc	79.2	^5-	2.7	1.4	mg/Kg	1	✱	6010D	Total/NA
Mercury	0.020	J	0.026	0.0060	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: RI-BH-12 Fill

Lab Sample ID: 480-229710-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.40	J vs	5.2	0.32	ug/Kg	1	✱	8260C	Total/NA
Methylene Chloride	5.3	B vs	5.2	2.4	ug/Kg	1	✱	8260C	Total/NA
2-Methylnaphthalene	39	J	180	29	ug/Kg	1	✱	8270D	Total/NA
Anthracene	46	J	180	34	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]anthracene	150	J	180	25	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	120	J	180	31	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	180		180	25	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	120	J	180	32	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	89	J	180	41	ug/Kg	1	✱	8270D	Total/NA
Chrysene	170	J	180	44	ug/Kg	1	✱	8270D	Total/NA
Dibenz(a,h)anthracene	46	J	180	37	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	290		180	33	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	100	J	180	27	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	240		180	34	ug/Kg	1	✱	8270D	Total/NA
Pyrene	230		180	35	ug/Kg	1	✱	8270D	Total/NA
4,4'-DDD	0.77	J	3.6	0.70	ug/Kg	1	✱	8081B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-12 Fill (Continued)

Lab Sample ID: 480-229710-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
4,4'-DDT	3.6		3.6	0.84	ug/Kg	1		✱	8081B	Total/NA
Endosulfan II	1.2	J	3.6	0.65	ug/Kg	1		✱	8081B	Total/NA
Endrin aldehyde	1.4	J	3.6	0.92	ug/Kg	1		✱	8081B	Total/NA
Methoxychlor	4.2	B	3.6	0.73	ug/Kg	1		✱	8081B	Total/NA
Aluminum	16800		11.0	9.5	mg/Kg	1		✱	6010D	Total/NA
Arsenic	3.4		2.2	0.97	mg/Kg	1		✱	6010D	Total/NA
Barium	181		0.55	0.15	mg/Kg	1		✱	6010D	Total/NA
Beryllium	3.6	^5-	0.22	0.044	mg/Kg	1		✱	6010D	Total/NA
Cadmium	0.12	J	0.22	0.077	mg/Kg	1		✱	6010D	Total/NA
Calcium	72300		54.9	29.7	mg/Kg	1		✱	6010D	Total/NA
Chromium	11.8	^5-	0.55	0.40	mg/Kg	1		✱	6010D	Total/NA
Cobalt	3.6		0.55	0.11	mg/Kg	1		✱	6010D	Total/NA
Copper	14.9		1.1	0.63	mg/Kg	1		✱	6010D	Total/NA
Iron	11900		11.0	9.3	mg/Kg	1		✱	6010D	Total/NA
Lead	30.3		1.1	0.51	mg/Kg	1		✱	6010D	Total/NA
Magnesium	22500		22.0	9.3	mg/Kg	1		✱	6010D	Total/NA
Manganese	987		1.1	0.31	mg/Kg	1		✱	6010D	Total/NA
Nickel	7.0	^5-	5.5	0.27	mg/Kg	1		✱	6010D	Total/NA
Potassium	1450		33.0	26.6	mg/Kg	1		✱	6010D	Total/NA
Selenium	1.2	J	4.4	0.88	mg/Kg	1		✱	6010D	Total/NA
Silver	0.22	J ^5-	0.66	0.22	mg/Kg	1		✱	6010D	Total/NA
Sodium	645		154	67.4	mg/Kg	1		✱	6010D	Total/NA
Vanadium	11.1	^5-	0.55	0.14	mg/Kg	1		✱	6010D	Total/NA
Zinc	39.3	^5-	2.2	1.1	mg/Kg	1		✱	6010D	Total/NA
Mercury	0.62		0.022	0.0050	mg/Kg	1		✱	7471B	Total/NA
Cyanide, Total	0.69	J	1.1	0.51	mg/Kg	1		✱	9012B	Total/NA

Client Sample ID: RI-BH-13 Fill

Lab Sample ID: 480-229710-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
2-Butanone (MEK)	25	J vs	34	2.5	ug/Kg	1		✱	8260C	Total/NA
Acetone	160	vs	34	5.7	ug/Kg	1		✱	8260C	Total/NA
Chloroform	0.58	J vs	6.8	0.42	ug/Kg	1		✱	8260C	Total/NA
Methylene Chloride	7.4	B vs	6.8	3.1	ug/Kg	1		✱	8260C	Total/NA
Anthracene	55	J	230	42	ug/Kg	1		✱	8270D	Total/NA
Benzo[a]anthracene	140	J	230	31	ug/Kg	1		✱	8270D	Total/NA
Benzo[a]pyrene	130	J	230	39	ug/Kg	1		✱	8270D	Total/NA
Benzo[b]fluoranthene	150	J	230	31	ug/Kg	1		✱	8270D	Total/NA
Benzo[g,h,i]perylene	120	J	230	40	ug/Kg	1		✱	8270D	Total/NA
Benzo[k]fluoranthene	88	J	230	51	ug/Kg	1		✱	8270D	Total/NA
Chrysene	140	J	230	55	ug/Kg	1		✱	8270D	Total/NA
Fluoranthene	340		230	42	ug/Kg	1		✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	89	J	230	34	ug/Kg	1		✱	8270D	Total/NA
Phenanthrene	240		230	43	ug/Kg	1		✱	8270D	Total/NA
Pyrene	280		230	43	ug/Kg	1		✱	8270D	Total/NA
4,4'-DDT	69	J	88	21	ug/Kg	20		✱	8081B	Total/NA
Methoxychlor	100	B	88	18	ug/Kg	20		✱	8081B	Total/NA
Aluminum	9850		13.5	11.6	mg/Kg	1		✱	6010D	Total/NA
Arsenic	5.5		2.7	1.2	mg/Kg	1		✱	6010D	Total/NA
Barium	58.4		0.68	0.19	mg/Kg	1		✱	6010D	Total/NA
Beryllium	0.42	^5-	0.27	0.054	mg/Kg	1		✱	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-13 Fill (Continued)

Lab Sample ID: 480-229710-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.14	J	0.27	0.095	mg/Kg	1	✱	6010D	Total/NA
Calcium	81300		67.5	36.5	mg/Kg	1	✱	6010D	Total/NA
Chromium	23.3	^5-	0.68	0.49	mg/Kg	1	✱	6010D	Total/NA
Cobalt	5.8		0.68	0.14	mg/Kg	1	✱	6010D	Total/NA
Copper	43.1		1.4	0.77	mg/Kg	1	✱	6010D	Total/NA
Iron	14700		13.5	11.5	mg/Kg	1	✱	6010D	Total/NA
Lead	11.9		1.4	0.62	mg/Kg	1	✱	6010D	Total/NA
Magnesium	7530		27.0	11.5	mg/Kg	1	✱	6010D	Total/NA
Manganese	330		1.4	0.38	mg/Kg	1	✱	6010D	Total/NA
Nickel	20.9	^5-	6.8	0.34	mg/Kg	1	✱	6010D	Total/NA
Potassium	1660		40.5	32.7	mg/Kg	1	✱	6010D	Total/NA
Sodium	215		189	82.8	mg/Kg	1	✱	6010D	Total/NA
Vanadium	19.8	^5-	0.68	0.18	mg/Kg	1	✱	6010D	Total/NA
Zinc	40.5	^5-	2.7	1.4	mg/Kg	1	✱	6010D	Total/NA
Mercury	0.017	J	0.028	0.0065	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: RI-BH-14 Fill

Lab Sample ID: 480-229710-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.44	J vs	5.7	0.36	ug/Kg	1	✱	8260C	Total/NA
Methylene Chloride	6.2	B vs	5.7	2.6	ug/Kg	1	✱	8260C	Total/NA
2-Methylnaphthalene	64	J	200	31	ug/Kg	1	✱	8270D	Total/NA
Acenaphthene	85	J	200	37	ug/Kg	1	✱	8270D	Total/NA
Anthracene	220		200	36	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]anthracene	320		200	27	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	350		200	33	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	410		200	26	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	250		200	34	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	240		200	44	ug/Kg	1	✱	8270D	Total/NA
Carbazole	83	J	200	39	ug/Kg	1	✱	8270D	Total/NA
Chrysene	380		200	47	ug/Kg	1	✱	8270D	Total/NA
Dibenz(a,h)anthracene	80	J	200	40	ug/Kg	1	✱	8270D	Total/NA
Dibenzofuran	67	J	200	35	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	960		200	36	ug/Kg	1	✱	8270D	Total/NA
Fluorene	68	J	200	36	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	200		200	29	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	990		200	37	ug/Kg	1	✱	8270D	Total/NA
Pyrene	750		200	37	ug/Kg	1	✱	8270D	Total/NA
4,4'-DDT	3.0	J	3.8	0.90	ug/Kg	1	✱	8081B	Total/NA
Endrin ketone	1.7	J	3.8	0.94	ug/Kg	1	✱	8081B	Total/NA
Methoxychlor	4.4	B	3.8	0.78	ug/Kg	1	✱	8081B	Total/NA
Aluminum	16600		11.8	10.2	mg/Kg	1	✱	6010D	Total/NA
Antimony	0.98	J	17.7	0.62	mg/Kg	1	✱	6010D	Total/NA
Arsenic	9.9		2.4	1.0	mg/Kg	1	✱	6010D	Total/NA
Barium	250		0.59	0.16	mg/Kg	1	✱	6010D	Total/NA
Beryllium	0.83	^5-	0.24	0.047	mg/Kg	1	✱	6010D	Total/NA
Cadmium	0.33		0.24	0.082	mg/Kg	1	✱	6010D	Total/NA
Calcium	2330	^5-	58.9	31.8	mg/Kg	1	✱	6010D	Total/NA
Chromium	20.0	^5-	0.59	0.42	mg/Kg	1	✱	6010D	Total/NA
Cobalt	12.6		0.59	0.12	mg/Kg	1	✱	6010D	Total/NA
Copper	34.0		1.2	0.67	mg/Kg	1	✱	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-14 Fill (Continued)

Lab Sample ID: 480-229710-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	27600		11.8	10	mg/Kg	1	✱	6010D	Total/NA
Lead	25.3		1.2	0.54	mg/Kg	1	✱	6010D	Total/NA
Magnesium	3710		23.6	10	mg/Kg	1	✱	6010D	Total/NA
Manganese	136	^5-	1.2	0.33	mg/Kg	1	✱	6010D	Total/NA
Nickel	35.5	^5-	5.9	0.29	mg/Kg	1	✱	6010D	Total/NA
Potassium	3150		35.4	28.6	mg/Kg	1	✱	6010D	Total/NA
Sodium	83.0	J	165	72.3	mg/Kg	1	✱	6010D	Total/NA
Vanadium	27.4	^5-	0.59	0.15	mg/Kg	1	✱	6010D	Total/NA
Zinc	213	^5-	2.4	1.2	mg/Kg	1	✱	6010D	Total/NA
Mercury	0.035		0.024	0.0055	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: RI-BH-15 Fill

Lab Sample ID: 480-229710-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.7	J vs	27	4.6	ug/Kg	1	✱	8260C	Total/NA
Chloroform	0.52	J vs	5.5	0.34	ug/Kg	1	✱	8260C	Total/NA
Methylene Chloride	6.6	B vs	5.5	2.5	ug/Kg	1	✱	8260C	Total/NA
2-Methylnaphthalene	51	J	190	30	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	44	J	190	36	ug/Kg	1	✱	8270D	Total/NA
4,4'-DDT	3.0	J	3.8	0.88	ug/Kg	1	✱	8081B	Total/NA
Methoxychlor	3.4	J B	3.8	0.77	ug/Kg	1	✱	8081B	Total/NA
Perfluorooctanoic acid (PFOA)	0.088	J	0.20	0.060	ng/g	1	✱	1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.070	J	0.20	0.050	ng/g	1	✱	1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.77		0.20	0.11	ng/g	1	✱	1633	Total/NA
N-ethylperfluorooctanesulfonamidoacetic acid (NetFOSAA)	0.11	J	0.20	0.11	ng/g	1	✱	1633	Total/NA
Aluminum	4490		10.8	9.3	mg/Kg	1	✱	6010D	Total/NA
Arsenic	5.4		2.2	0.95	mg/Kg	1	✱	6010D	Total/NA
Barium	34.3		0.54	0.15	mg/Kg	1	✱	6010D	Total/NA
Beryllium	0.23	^5-	0.22	0.043	mg/Kg	1	✱	6010D	Total/NA
Calcium	36100		53.8	29.0	mg/Kg	1	✱	6010D	Total/NA
Chromium	6.0	^5-	0.54	0.39	mg/Kg	1	✱	6010D	Total/NA
Cobalt	2.6		0.54	0.11	mg/Kg	1	✱	6010D	Total/NA
Copper	6.8		1.1	0.61	mg/Kg	1	✱	6010D	Total/NA
Iron	7200	^5-	10.8	9.1	mg/Kg	1	✱	6010D	Total/NA
Lead	5.2		1.1	0.49	mg/Kg	1	✱	6010D	Total/NA
Magnesium	8400		21.5	9.1	mg/Kg	1	✱	6010D	Total/NA
Manganese	95.1	^5-	1.1	0.30	mg/Kg	1	✱	6010D	Total/NA
Nickel	7.6	^5-	5.4	0.27	mg/Kg	1	✱	6010D	Total/NA
Potassium	812		32.3	26.1	mg/Kg	1	✱	6010D	Total/NA
Sodium	98.7	J	151	65.9	mg/Kg	1	✱	6010D	Total/NA
Vanadium	8.9	^5-	0.54	0.14	mg/Kg	1	✱	6010D	Total/NA
Zinc	23.5	^5-	2.2	1.1	mg/Kg	1	✱	6010D	Total/NA
Mercury	0.0065	J	0.023	0.0054	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: RI-BH-15 Native

Lab Sample ID: 480-229710-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.49	J vs	5.5	0.40	ug/Kg	1	✱	8260C	Total/NA
Chloroform	0.47	J vs	5.5	0.34	ug/Kg	1	✱	8260C	Total/NA
Methylene Chloride	6.0	B vs	5.5	2.5	ug/Kg	1	✱	8260C	Total/NA
Methoxychlor	3.5	J B	3.8	0.76	ug/Kg	1	✱	8081B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-15 Native (Continued)

Lab Sample ID: 480-229710-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	11000		11.0	9.5	mg/Kg	1	✱	6010D	Total/NA
Antimony	0.79	J	16.5	0.58	mg/Kg	1	✱	6010D	Total/NA
Arsenic	8.9		2.2	0.97	mg/Kg	1	✱	6010D	Total/NA
Barium	85.3		0.55	0.15	mg/Kg	1	✱	6010D	Total/NA
Beryllium	0.55	^5-	0.22	0.044	mg/Kg	1	✱	6010D	Total/NA
Cadmium	0.22		0.22	0.077	mg/Kg	1	✱	6010D	Total/NA
Calcium	4730	^5-	54.8	29.6	mg/Kg	1	✱	6010D	Total/NA
Chromium	15.2	^5-	0.55	0.39	mg/Kg	1	✱	6010D	Total/NA
Cobalt	14.2		0.55	0.11	mg/Kg	1	✱	6010D	Total/NA
Copper	42.4		1.1	0.63	mg/Kg	1	✱	6010D	Total/NA
Iron	24700		11.0	9.3	mg/Kg	1	✱	6010D	Total/NA
Lead	19.5		1.1	0.50	mg/Kg	1	✱	6010D	Total/NA
Magnesium	4420		21.9	9.3	mg/Kg	1	✱	6010D	Total/NA
Manganese	247		1.1	0.31	mg/Kg	1	✱	6010D	Total/NA
Nickel	33.6	^5-	5.5	0.27	mg/Kg	1	✱	6010D	Total/NA
Potassium	2210		32.9	26.6	mg/Kg	1	✱	6010D	Total/NA
Sodium	88.9	J	154	67.2	mg/Kg	1	✱	6010D	Total/NA
Thallium	1.0	J	6.6	0.83	mg/Kg	1	✱	6010D	Total/NA
Vanadium	17.4	^5-	0.55	0.14	mg/Kg	1	✱	6010D	Total/NA
Zinc	97.0	^5-	2.2	1.1	mg/Kg	1	✱	6010D	Total/NA
Mercury	0.018	J	0.024	0.0056	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: RI-BH-16 Fill

Lab Sample ID: 480-229710-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.60	J vs	5.8	0.36	ug/Kg	1	✱	8260C	Total/NA
Methylene Chloride	5.8	B vs	5.8	2.7	ug/Kg	1	✱	8260C	Total/NA
2-Methylnaphthalene	130	J	200	31	ug/Kg	1	✱	8270D	Total/NA
4-Methylphenol	37	J	390	36	ug/Kg	1	✱	8270D	Total/NA
Acenaphthylene	55	J	200	38	ug/Kg	1	✱	8270D	Total/NA
Anthracene	65	J	200	37	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]anthracene	310		200	27	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	290		200	34	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	490		200	27	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	260		200	35	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	150	J	200	45	ug/Kg	1	✱	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	110	J	200	43	ug/Kg	1	✱	8270D	Total/NA
Chrysene	530		200	48	ug/Kg	1	✱	8270D	Total/NA
Dibenz(a,h)anthracene	98	J	200	40	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	590		200	36	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	200		200	30	ug/Kg	1	✱	8270D	Total/NA
Naphthalene	78	J	200	33	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	430		200	37	ug/Kg	1	✱	8270D	Total/NA
Pyrene	430		200	38	ug/Kg	1	✱	8270D	Total/NA
4,4'-DDD	3.8	J	3.9	0.75	ug/Kg	1	✱	8081B	Total/NA
4,4'-DDE	6.6		3.9	0.82	ug/Kg	1	✱	8081B	Total/NA
4,4'-DDT	17		3.9	0.91	ug/Kg	1	✱	8081B	Total/NA
Endosulfan II	1.1	J	3.9	0.70	ug/Kg	1	✱	8081B	Total/NA
Endrin ketone	3.8	J	3.9	0.95	ug/Kg	1	✱	8081B	Total/NA
trans-Chlordane	1.4	J	3.9	1.2	ug/Kg	1	✱	8081B	Total/NA
Methoxychlor	4.2	B	3.9	0.79	ug/Kg	1	✱	8081B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-16 Fill (Continued)

Lab Sample ID: 480-229710-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	0.15	J	0.40	0.13	ng/g	1	✱	1633	Total/NA
Perfluoropentanoic acid (PFPeA)	0.071	J	0.20	0.049	ng/g	1	✱	1633	Total/NA
Perfluorohexanoic acid (PFHxA)	0.071	J	0.20	0.059	ng/g	1	✱	1633	Total/NA
Perfluorooctanoic acid (PFOA)	0.18	J	0.20	0.059	ng/g	1	✱	1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.34		0.20	0.11	ng/g	1	✱	1633	Total/NA
Aluminum	13000		11.6	10	mg/Kg	1	✱	6010D	Total/NA
Antimony	1.2	J	17.4	0.61	mg/Kg	1	✱	6010D	Total/NA
Arsenic	12.2		2.3	1.0	mg/Kg	1	✱	6010D	Total/NA
Barium	205		0.58	0.16	mg/Kg	1	✱	6010D	Total/NA
Beryllium	1.4	^5-	0.23	0.046	mg/Kg	1	✱	6010D	Total/NA
Cadmium	0.33		0.23	0.081	mg/Kg	1	✱	6010D	Total/NA
Calcium	26000		57.9	31.2	mg/Kg	1	✱	6010D	Total/NA
Chromium	21.5	^5-	0.58	0.42	mg/Kg	1	✱	6010D	Total/NA
Cobalt	8.3		0.58	0.12	mg/Kg	1	✱	6010D	Total/NA
Copper	53.7		1.2	0.66	mg/Kg	1	✱	6010D	Total/NA
Iron	23500		11.6	9.8	mg/Kg	1	✱	6010D	Total/NA
Lead	409		1.2	0.53	mg/Kg	1	✱	6010D	Total/NA
Magnesium	5880		23.1	9.8	mg/Kg	1	✱	6010D	Total/NA
Manganese	778		1.2	0.32	mg/Kg	1	✱	6010D	Total/NA
Nickel	22.1	^5-	5.8	0.29	mg/Kg	1	✱	6010D	Total/NA
Potassium	1990		34.7	28.0	mg/Kg	1	✱	6010D	Total/NA
Selenium	2.1	J	4.6	0.93	mg/Kg	1	✱	6010D	Total/NA
Sodium	248		162	70.9	mg/Kg	1	✱	6010D	Total/NA
Vanadium	21.0	^5-	0.58	0.15	mg/Kg	1	✱	6010D	Total/NA
Zinc	122	^5-	2.3	1.2	mg/Kg	1	✱	6010D	Total/NA
Mercury	0.088		0.023	0.0052	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: RI-BH-17 Fill

Lab Sample ID: 480-229710-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	13	J vs	30	5.0	ug/Kg	1	✱	8260C	Total/NA
Chloroform	0.54	J vs	6.0	0.37	ug/Kg	1	✱	8260C	Total/NA
Methylene Chloride	6.8	B vs	6.0	2.8	ug/Kg	1	✱	8260C	Total/NA
2-Methylnaphthalene	33	J	210	32	ug/Kg	1	✱	8270D	Total/NA
Anthracene	62	J	210	38	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]anthracene	150	J	210	28	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	150	J	210	35	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	200	J	210	28	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	120	J	210	36	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	98	J	210	46	ug/Kg	1	✱	8270D	Total/NA
Chrysene	160	J	210	50	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	370		210	38	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	87	J	210	31	ug/Kg	1	✱	8270D	Total/NA
Naphthalene	140	J	210	34	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	260		210	39	ug/Kg	1	✱	8270D	Total/NA
Pyrene	270		210	39	ug/Kg	1	✱	8270D	Total/NA
4,4'-DDE	1.3	J	4.0	0.85	ug/Kg	1	✱	8081B	Total/NA
4,4'-DDT	4.2		4.0	0.95	ug/Kg	1	✱	8081B	Total/NA
Methoxychlor	5.7	B	4.0	0.82	ug/Kg	1	✱	8081B	Total/NA
Aluminum	14400		12.9	11.1	mg/Kg	1	✱	6010D	Total/NA
Antimony	1.5	J	19.3	0.68	mg/Kg	1	✱	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-17 Fill (Continued)

Lab Sample ID: 480-229710-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	12.3		2.6	1.1	mg/Kg	1	☆		6010D	Total/NA
Barium	245		0.64	0.18	mg/Kg	1	☆		6010D	Total/NA
Beryllium	0.82	^5-	0.26	0.051	mg/Kg	1	☆		6010D	Total/NA
Cadmium	0.68		0.26	0.090	mg/Kg	1	☆		6010D	Total/NA
Calcium	8300	^5-	64.3	34.7	mg/Kg	1	☆		6010D	Total/NA
Chromium	21.5	^5-	0.64	0.46	mg/Kg	1	☆		6010D	Total/NA
Cobalt	11.8		0.64	0.13	mg/Kg	1	☆		6010D	Total/NA
Copper	67.8		1.3	0.73	mg/Kg	1	☆		6010D	Total/NA
Iron	29200		12.9	10.9	mg/Kg	1	☆		6010D	Total/NA
Lead	293		1.3	0.59	mg/Kg	1	☆		6010D	Total/NA
Magnesium	4290		25.7	10.9	mg/Kg	1	☆		6010D	Total/NA
Manganese	485		1.3	0.36	mg/Kg	1	☆		6010D	Total/NA
Nickel	28.8	^5-	6.4	0.32	mg/Kg	1	☆		6010D	Total/NA
Potassium	2460		38.6	31.2	mg/Kg	1	☆		6010D	Total/NA
Selenium	1.2	J	5.1	1.0	mg/Kg	1	☆		6010D	Total/NA
Sodium	153	J	180	78.8	mg/Kg	1	☆		6010D	Total/NA
Vanadium	25.7	^5-	0.64	0.17	mg/Kg	1	☆		6010D	Total/NA
Zinc	328	^5-	12.9	6.6	mg/Kg	5	☆		6010D	Total/NA
Mercury	0.099		0.024	0.0054	mg/Kg	1	☆		7471B	Total/NA

Client Sample ID: RI-BH-17 Native

Lab Sample ID: 480-229710-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
2-Butanone (MEK)	15	J vs	28	2.0	ug/Kg	1	☆		8260C	Total/NA
Acetone	80	vs	28	4.6	ug/Kg	1	☆		8260C	Total/NA
Chloroform	0.55	J vs	5.5	0.34	ug/Kg	1	☆		8260C	Total/NA
Methylene Chloride	5.1	J B vs	5.5	2.5	ug/Kg	1	☆		8260C	Total/NA
Anthracene	80	J	190	35	ug/Kg	1	☆		8270D	Total/NA
Benzo[a]anthracene	180	J	190	26	ug/Kg	1	☆		8270D	Total/NA
Benzo[a]pyrene	160	J	190	32	ug/Kg	1	☆		8270D	Total/NA
Benzo[b]fluoranthene	210		190	26	ug/Kg	1	☆		8270D	Total/NA
Benzo[g,h,i]perylene	69	J	190	33	ug/Kg	1	☆		8270D	Total/NA
Benzo[k]fluoranthene	58	J	190	43	ug/Kg	1	☆		8270D	Total/NA
Chrysene	210		190	46	ug/Kg	1	☆		8270D	Total/NA
Fluoranthene	360		190	35	ug/Kg	1	☆		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	83	J	190	28	ug/Kg	1	☆		8270D	Total/NA
Phenanthrene	100	J	190	36	ug/Kg	1	☆		8270D	Total/NA
Pyrene	290		190	36	ug/Kg	1	☆		8270D	Total/NA
Aluminum	12000		11.7	10.1	mg/Kg	1	☆		6010D	Total/NA
Antimony	0.95	J	17.5	0.62	mg/Kg	1	☆		6010D	Total/NA
Arsenic	15.2		2.3	1.0	mg/Kg	1	☆		6010D	Total/NA
Barium	200		0.58	0.16	mg/Kg	1	☆		6010D	Total/NA
Beryllium	0.58	^5-	0.23	0.047	mg/Kg	1	☆		6010D	Total/NA
Cadmium	1.1		0.23	0.082	mg/Kg	1	☆		6010D	Total/NA
Calcium	38400		58.5	31.6	mg/Kg	1	☆		6010D	Total/NA
Chromium	16.8	^5-	0.58	0.42	mg/Kg	1	☆		6010D	Total/NA
Cobalt	11.2		0.58	0.12	mg/Kg	1	☆		6010D	Total/NA
Copper	35.6		1.2	0.67	mg/Kg	1	☆		6010D	Total/NA
Iron	25700		11.7	9.9	mg/Kg	1	☆		6010D	Total/NA
Lead	25.1		1.2	0.54	mg/Kg	1	☆		6010D	Total/NA
Magnesium	7670		23.4	9.9	mg/Kg	1	☆		6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-17 Native (Continued)

Lab Sample ID: 480-229710-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	397		1.2	0.33	mg/Kg	1	✱	6010D	Total/NA
Nickel	32.0	^5-	5.8	0.29	mg/Kg	1	✱	6010D	Total/NA
Potassium	2990		35.1	28.3	mg/Kg	1	✱	6010D	Total/NA
Selenium	1.1	J	4.7	0.94	mg/Kg	1	✱	6010D	Total/NA
Sodium	160	J	164	71.7	mg/Kg	1	✱	6010D	Total/NA
Vanadium	22.1	^5-	0.58	0.15	mg/Kg	1	✱	6010D	Total/NA
Zinc	158	^5-	2.3	1.2	mg/Kg	1	✱	6010D	Total/NA
Mercury	0.021	J	0.024	0.0055	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: RI-BH-18 Fill

Lab Sample ID: 480-229710-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.48	J vs	5.7	0.35	ug/Kg	1	✱	8260C	Total/NA
Methylene Chloride	3.2	J B vs	5.7	2.6	ug/Kg	1	✱	8260C	Total/NA
2-Methylnaphthalene	130	J	200	31	ug/Kg	1	✱	8270D	Total/NA
Acenaphthylene	42	J	200	38	ug/Kg	1	✱	8270D	Total/NA
Anthracene	63	J	200	36	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]anthracene	270		200	27	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	310		200	34	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	460		200	26	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	220		200	34	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	220		200	44	ug/Kg	1	✱	8270D	Total/NA
Chrysene	410		200	47	ug/Kg	1	✱	8270D	Total/NA
Dibenz(a,h)anthracene	91	J	200	40	ug/Kg	1	✱	8270D	Total/NA
Dibenzofuran	47	J	200	35	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	720		200	36	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	220		200	29	ug/Kg	1	✱	8270D	Total/NA
Naphthalene	81	J	200	33	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	430		200	37	ug/Kg	1	✱	8270D	Total/NA
Pyrene	520		200	37	ug/Kg	1	✱	8270D	Total/NA
4,4'-DDT	3.5	J	3.9	0.91	ug/Kg	1	✱	8081B	Total/NA
Methoxychlor	3.6	J B	3.9	0.79	ug/Kg	1	✱	8081B	Total/NA
Perfluoropentanoic acid (PFPeA)	0.11	J	0.20	0.049	ng/g	1	✱	1633	Total/NA
Perfluorohexanoic acid (PFHxA)	0.11	J	0.20	0.059	ng/g	1	✱	1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.093	J	0.20	0.069	ng/g	1	✱	1633	Total/NA
Perfluorooctanoic acid (PFOA)	0.51		0.20	0.059	ng/g	1	✱	1633	Total/NA
Perfluorodecanoic acid (PFDA)	0.073	J	0.20	0.049	ng/g	1	✱	1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.6		0.20	0.11	ng/g	1	✱	1633	Total/NA
Aluminum	17500		12.2	10.5	mg/Kg	1	✱	6010D	Total/NA
Antimony	1.4	J	18.3	0.65	mg/Kg	1	✱	6010D	Total/NA
Arsenic	13.9		2.4	1.1	mg/Kg	1	✱	6010D	Total/NA
Barium	92.6		0.61	0.17	mg/Kg	1	✱	6010D	Total/NA
Beryllium	0.65	^5-	0.24	0.049	mg/Kg	1	✱	6010D	Total/NA
Cadmium	0.24		0.24	0.085	mg/Kg	1	✱	6010D	Total/NA
Calcium	2210	^5-	60.9	32.9	mg/Kg	1	✱	6010D	Total/NA
Chromium	21.5	^5-	0.61	0.44	mg/Kg	1	✱	6010D	Total/NA
Cobalt	8.5		0.61	0.12	mg/Kg	1	✱	6010D	Total/NA
Copper	25.8		1.2	0.69	mg/Kg	1	✱	6010D	Total/NA
Iron	33700		12.2	10.3	mg/Kg	1	✱	6010D	Total/NA
Lead	64.3		1.2	0.56	mg/Kg	1	✱	6010D	Total/NA
Magnesium	2990		24.3	10.3	mg/Kg	1	✱	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-18 Fill (Continued)

Lab Sample ID: 480-229710-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	378		1.2	0.34	mg/Kg	1	✱	6010D	Total/NA
Nickel	20.5	^5-	6.1	0.30	mg/Kg	1	✱	6010D	Total/NA
Potassium	2690		36.5	29.5	mg/Kg	1	✱	6010D	Total/NA
Selenium	1.2	J	4.9	0.97	mg/Kg	1	✱	6010D	Total/NA
Sodium	93.1	J	170	74.6	mg/Kg	1	✱	6010D	Total/NA
Vanadium	34.7	^5-	0.61	0.16	mg/Kg	1	✱	6010D	Total/NA
Zinc	113	^5-	2.4	1.2	mg/Kg	1	✱	6010D	Total/NA
Mercury	1.0		0.023	0.0053	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: RI-BH-18 Native

Lab Sample ID: 480-229710-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.59	J vs	5.8	0.36	ug/Kg	1	✱	8260C	Total/NA
Methylene Chloride	4.7	J B vs	5.8	2.6	ug/Kg	1	✱	8260C	Total/NA
Endrin ketone	1.6	J	3.8	0.92	ug/Kg	1	✱	8081B	Total/NA
Methoxychlor	3.8	B	3.8	0.77	ug/Kg	1	✱	8081B	Total/NA
Aluminum	9160		11.6	10	mg/Kg	1	✱	6010D	Total/NA
Antimony	0.66	J	17.3	0.61	mg/Kg	1	✱	6010D	Total/NA
Arsenic	13.0		2.3	1.0	mg/Kg	1	✱	6010D	Total/NA
Barium	164		0.58	0.16	mg/Kg	1	✱	6010D	Total/NA
Beryllium	0.59	^5-	0.23	0.046	mg/Kg	1	✱	6010D	Total/NA
Cadmium	0.33		0.23	0.081	mg/Kg	1	✱	6010D	Total/NA
Calcium	16400		57.8	31.2	mg/Kg	1	✱	6010D	Total/NA
Chromium	12.6		0.58	0.42	mg/Kg	1	✱	6010D	Total/NA
Cobalt	10.9		0.58	0.12	mg/Kg	1	✱	6010D	Total/NA
Copper	51.0		1.2	0.66	mg/Kg	1	✱	6010D	Total/NA
Iron	24900	^2 ^+	11.6	9.8	mg/Kg	1	✱	6010D	Total/NA
Lead	23.5		1.2	0.53	mg/Kg	1	✱	6010D	Total/NA
Magnesium	5030		23.1	9.8	mg/Kg	1	✱	6010D	Total/NA
Manganese	261		1.2	0.32	mg/Kg	1	✱	6010D	Total/NA
Nickel	29.7	^5-	5.8	0.29	mg/Kg	1	✱	6010D	Total/NA
Potassium	2120		34.7	28.0	mg/Kg	1	✱	6010D	Total/NA
Sodium	105	J	162	70.8	mg/Kg	1	✱	6010D	Total/NA
Vanadium	16.7		0.58	0.15	mg/Kg	1	✱	6010D	Total/NA
Zinc	80.8	^5-	2.3	1.2	mg/Kg	1	✱	6010D	Total/NA
Mercury	0.018	J	0.024	0.0056	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: RI-BH-1 Fill

Lab Sample ID: 480-229710-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	13	J vs	31	5.1	ug/Kg	1	✱	8260C	Total/NA
Chloroform	0.59	J vs	6.1	0.38	ug/Kg	1	✱	8260C	Total/NA
Methylene Chloride	7.3	vs	6.1	2.8	ug/Kg	1	✱	8260C	Total/NA
Toluene	0.64	J *3 vs	6.1	0.46	ug/Kg	1	✱	8260C	Total/NA
2-Methylnaphthalene	73	J	210	33	ug/Kg	1	✱	8270D	Total/NA
Acenaphthene	49	J	210	39	ug/Kg	1	✱	8270D	Total/NA
Anthracene	87	J	210	39	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]anthracene	290		210	29	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	220		210	36	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	390		210	28	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	150	J	210	37	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	210		210	47	ug/Kg	1	✱	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-1 Fill (Continued)

Lab Sample ID: 480-229710-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbazole	47	J	210	41	ug/Kg	1	✱	8270D	Total/NA
Chrysene	410		210	51	ug/Kg	1	✱	8270D	Total/NA
Dibenz(a,h)anthracene	52	J	210	43	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	1100		210	38	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	120	J	210	31	ug/Kg	1	✱	8270D	Total/NA
Naphthalene	51	J	210	35	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	560		210	40	ug/Kg	1	✱	8270D	Total/NA
Pyrene	720		210	40	ug/Kg	1	✱	8270D	Total/NA
4,4'-DDT	3.7	J	4.1	0.96	ug/Kg	1	✱	8081B	Total/NA
gamma-BHC (Lindane)	1.3	J	4.1	0.75	ug/Kg	1	✱	8081B	Total/NA
Methoxychlor	3.8	J B	4.1	0.83	ug/Kg	1	✱	8081B	Total/NA
Aluminum	16900		13.2	11.3	mg/Kg	1	✱	6010D	Total/NA
Arsenic	7.6		2.6	1.2	mg/Kg	1	✱	6010D	Total/NA
Barium	235		0.66	0.18	mg/Kg	1	✱	6010D	Total/NA
Beryllium	1.1	^5-	0.26	0.053	mg/Kg	1	✱	6010D	Total/NA
Cadmium	0.32		0.26	0.092	mg/Kg	1	✱	6010D	Total/NA
Calcium	2830	^5-	65.8	35.5	mg/Kg	1	✱	6010D	Total/NA
Chromium	19.4		0.66	0.47	mg/Kg	1	✱	6010D	Total/NA
Cobalt	8.9		0.66	0.13	mg/Kg	1	✱	6010D	Total/NA
Copper	56.5		1.3	0.75	mg/Kg	1	✱	6010D	Total/NA
Iron	23300	^2 ^+	13.2	11.2	mg/Kg	1	✱	6010D	Total/NA
Lead	283		1.3	0.61	mg/Kg	1	✱	6010D	Total/NA
Magnesium	2680		26.3	11.2	mg/Kg	1	✱	6010D	Total/NA
Manganese	194	^5-	1.3	0.37	mg/Kg	1	✱	6010D	Total/NA
Nickel	25.6	^5-	6.6	0.33	mg/Kg	1	✱	6010D	Total/NA
Potassium	2470		39.5	31.9	mg/Kg	1	✱	6010D	Total/NA
Sodium	314		184	80.7	mg/Kg	1	✱	6010D	Total/NA
Vanadium	27.1		0.66	0.17	mg/Kg	1	✱	6010D	Total/NA
Zinc	149	^5-	2.6	1.3	mg/Kg	1	✱	6010D	Total/NA
Mercury	1.2		0.026	0.0061	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: RI-BH-1 Native

Lab Sample ID: 480-229710-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.8	J vs	34	5.7	ug/Kg	1	✱	8260C	Total/NA
Chloroform	0.52	J vs	6.8	0.42	ug/Kg	1	✱	8260C	Total/NA
Methylene Chloride	7.9	B vs	6.8	3.1	ug/Kg	1	✱	8260C	Total/NA
4,4'-DDT	3.6	J	4.6	1.1	ug/Kg	1	✱	8081B	Total/NA
Methoxychlor	4.8	B	4.6	0.94	ug/Kg	1	✱	8081B	Total/NA
Aluminum	24600		14.6	12.6	mg/Kg	1	✱	6010D	Total/NA
Arsenic	8.6		2.9	1.3	mg/Kg	1	✱	6010D	Total/NA
Barium	224		0.73	0.20	mg/Kg	1	✱	6010D	Total/NA
Beryllium	1.0	^5-	0.29	0.058	mg/Kg	1	✱	6010D	Total/NA
Cadmium	0.56		0.29	0.10	mg/Kg	1	✱	6010D	Total/NA
Calcium	4080	^5-	73.0	39.4	mg/Kg	1	✱	6010D	Total/NA
Chromium	29.0		0.73	0.53	mg/Kg	1	✱	6010D	Total/NA
Cobalt	16.5		0.73	0.15	mg/Kg	1	✱	6010D	Total/NA
Copper	29.7		1.5	0.83	mg/Kg	1	✱	6010D	Total/NA
Iron	34300	^2 ^+	14.6	12.4	mg/Kg	1	✱	6010D	Total/NA
Lead	50.5		1.5	0.67	mg/Kg	1	✱	6010D	Total/NA
Magnesium	4200		29.2	12.4	mg/Kg	1	✱	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-1 Native (Continued)

Lab Sample ID: 480-229710-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	1880	^5-	1.5	0.41	mg/Kg	1	✱	6010D	Total/NA
Nickel	26.2	^5-	7.3	0.37	mg/Kg	1	✱	6010D	Total/NA
Potassium	3880		43.8	35.4	mg/Kg	1	✱	6010D	Total/NA
Sodium	262		205	89.6	mg/Kg	1	✱	6010D	Total/NA
Vanadium	43.1		0.73	0.19	mg/Kg	1	✱	6010D	Total/NA
Zinc	147	^5-	2.9	1.5	mg/Kg	1	✱	6010D	Total/NA
Mercury	0.15		0.028	0.0065	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: RI-BH-2 Fill

Lab Sample ID: 480-229710-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	36	vs	31	5.3	ug/Kg	1	✱	8260C	Total/NA
Chloroform	0.47	J vs	6.3	0.39	ug/Kg	1	✱	8260C	Total/NA
Methylcyclohexane	1.1	J vs	6.3	0.96	ug/Kg	1	✱	8260C	Total/NA
Methylene Chloride	3.2	J vs	6.3	2.9	ug/Kg	1	✱	8260C	Total/NA
Tetrachloroethene	9.0	vs	6.3	0.84	ug/Kg	1	✱	8260C	Total/NA
Benzo[a]anthracene	920	J	1100	150	ug/Kg	5	✱	8270D	Total/NA
Benzo[a]pyrene	1300		1100	180	ug/Kg	5	✱	8270D	Total/NA
Benzo[b]fluoranthene	2000		1100	140	ug/Kg	5	✱	8270D	Total/NA
Benzo[g,h,i]perylene	1100		1100	190	ug/Kg	5	✱	8270D	Total/NA
Benzo[k]fluoranthene	1000	J	1100	240	ug/Kg	5	✱	8270D	Total/NA
Chrysene	1500		1100	260	ug/Kg	5	✱	8270D	Total/NA
Fluoranthene	2600		1100	200	ug/Kg	5	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	880	J	1100	160	ug/Kg	5	✱	8270D	Total/NA
Phenanthrene	750	J	1100	200	ug/Kg	5	✱	8270D	Total/NA
Pyrene	1800		1100	200	ug/Kg	5	✱	8270D	Total/NA
4,4'-DDT	64	J	82	19	ug/Kg	20	✱	8081B	Total/NA
Methoxychlor	67	J B	82	17	ug/Kg	20	✱	8081B	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.17	J	0.20	0.11	ng/g	1	✱	1633	Total/NA
Aluminum	12400		12.9	11.1	mg/Kg	1	✱	6010D	Total/NA
Antimony	0.99	J	19.4	0.68	mg/Kg	1	✱	6010D	Total/NA
Arsenic	9.1		2.6	1.1	mg/Kg	1	✱	6010D	Total/NA
Barium	134		0.65	0.18	mg/Kg	1	✱	6010D	Total/NA
Beryllium	0.91	^5-	0.26	0.052	mg/Kg	1	✱	6010D	Total/NA
Cadmium	0.19	J	0.26	0.090	mg/Kg	1	✱	6010D	Total/NA
Calcium	4270	^5-	64.6	34.9	mg/Kg	1	✱	6010D	Total/NA
Chromium	17.9		0.65	0.47	mg/Kg	1	✱	6010D	Total/NA
Cobalt	6.4		0.65	0.13	mg/Kg	1	✱	6010D	Total/NA
Copper	76.3		1.3	0.74	mg/Kg	1	✱	6010D	Total/NA
Iron	23700	^2 ^+	12.9	11.0	mg/Kg	1	✱	6010D	Total/NA
Lead	284		1.3	0.59	mg/Kg	1	✱	6010D	Total/NA
Magnesium	2370		25.8	11.0	mg/Kg	1	✱	6010D	Total/NA
Manganese	760		1.3	0.36	mg/Kg	1	✱	6010D	Total/NA
Nickel	24.7	^5-	6.5	0.32	mg/Kg	1	✱	6010D	Total/NA
Potassium	1610		38.8	31.3	mg/Kg	1	✱	6010D	Total/NA
Sodium	190		181	79.2	mg/Kg	1	✱	6010D	Total/NA
Vanadium	27.5		0.65	0.17	mg/Kg	1	✱	6010D	Total/NA
Zinc	167	^5-	2.6	1.3	mg/Kg	1	✱	6010D	Total/NA
Mercury	0.54		0.025	0.0059	mg/Kg	1	✱	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-2 Native

Lab Sample ID: 480-229710-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	10	J vs	31	5.2	ug/Kg	1	✱	8260C	Total/NA
Chloroform	0.52	J vs	6.2	0.38	ug/Kg	1	✱	8260C	Total/NA
Methylene Chloride	7.4	B vs	6.2	2.8	ug/Kg	1	✱	8260C	Total/NA
Methoxychlor	4.1	B	4.1	0.84	ug/Kg	1	✱	8081B	Total/NA
Aluminum	21800		13.1	11.3	mg/Kg	1	✱	6010D	Total/NA
Arsenic	6.6		2.6	1.2	mg/Kg	1	✱	6010D	Total/NA
Barium	531		0.66	0.18	mg/Kg	1	✱	6010D	Total/NA
Beryllium	1.1	^5-	0.26	0.053	mg/Kg	1	✱	6010D	Total/NA
Cadmium	0.25	J	0.26	0.092	mg/Kg	1	✱	6010D	Total/NA
Calcium	42200		65.7	35.5	mg/Kg	1	✱	6010D	Total/NA
Chromium	28.2		0.66	0.47	mg/Kg	1	✱	6010D	Total/NA
Cobalt	11.5		0.66	0.13	mg/Kg	1	✱	6010D	Total/NA
Copper	24.4		1.3	0.75	mg/Kg	1	✱	6010D	Total/NA
Iron	30900	^2 ^+	13.1	11.2	mg/Kg	1	✱	6010D	Total/NA
Lead	13.3		1.3	0.60	mg/Kg	1	✱	6010D	Total/NA
Magnesium	8480		26.3	11.2	mg/Kg	1	✱	6010D	Total/NA
Manganese	299		1.3	0.37	mg/Kg	1	✱	6010D	Total/NA
Nickel	35.6	^5-	6.6	0.33	mg/Kg	1	✱	6010D	Total/NA
Potassium	5060		39.4	31.9	mg/Kg	1	✱	6010D	Total/NA
Sodium	231		184	80.6	mg/Kg	1	✱	6010D	Total/NA
Vanadium	38.0		0.66	0.17	mg/Kg	1	✱	6010D	Total/NA
Zinc	73.4	^5-	2.6	1.3	mg/Kg	1	✱	6010D	Total/NA
Mercury	0.019	J	0.027	0.0061	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: RI-BH-3 Fill

Lab Sample ID: 480-229710-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.43	J vs	5.4	0.33	ug/Kg	1	✱	8260C	Total/NA
Methylene Chloride	3.6	J vs	5.4	2.5	ug/Kg	1	✱	8260C	Total/NA
Benzo[b]fluoranthene	46	J	180	25	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	110	J	180	33	ug/Kg	1	✱	8270D	Total/NA
Pyrene	74	J	180	35	ug/Kg	1	✱	8270D	Total/NA
4,4'-DDT	2.8	J	3.5	0.82	ug/Kg	1	✱	8081B	Total/NA
Methoxychlor	4.1	B	3.5	0.72	ug/Kg	1	✱	8081B	Total/NA
Aluminum	13300		10.5	9.0	mg/Kg	1	✱	6010D	Total/NA
Antimony	0.74	J	15.7	0.56	mg/Kg	1	✱	6010D	Total/NA
Arsenic	9.7		2.1	0.92	mg/Kg	1	✱	6010D	Total/NA
Barium	61.2		0.52	0.15	mg/Kg	1	✱	6010D	Total/NA
Beryllium	1.1	^5-	0.21	0.042	mg/Kg	1	✱	6010D	Total/NA
Cadmium	0.33		0.21	0.073	mg/Kg	1	✱	6010D	Total/NA
Calcium	23800		52.4	28.3	mg/Kg	1	✱	6010D	Total/NA
Chromium	19.5		0.52	0.38	mg/Kg	1	✱	6010D	Total/NA
Cobalt	6.4		0.52	0.10	mg/Kg	1	✱	6010D	Total/NA
Copper	48.6		1.0	0.60	mg/Kg	1	✱	6010D	Total/NA
Iron	31400	^2 ^+	10.5	8.9	mg/Kg	1	✱	6010D	Total/NA
Lead	16.9		1.0	0.48	mg/Kg	1	✱	6010D	Total/NA
Magnesium	6280		21.0	8.9	mg/Kg	1	✱	6010D	Total/NA
Manganese	285		1.0	0.29	mg/Kg	1	✱	6010D	Total/NA
Nickel	15.7	^5-	5.2	0.26	mg/Kg	1	✱	6010D	Total/NA
Potassium	2550		31.4	25.4	mg/Kg	1	✱	6010D	Total/NA
Selenium	1.2	J	4.2	0.84	mg/Kg	1	✱	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-3 Fill (Continued)

Lab Sample ID: 480-229710-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	170		147	64.3	mg/Kg	1	✱	6010D	Total/NA
Vanadium	21.1		0.52	0.14	mg/Kg	1	✱	6010D	Total/NA
Zinc	155	^5-	2.1	1.1	mg/Kg	1	✱	6010D	Total/NA
Mercury	0.016	J	0.021	0.0048	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: RI-BH-4 Fill

Lab Sample ID: 480-229710-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	38	vs	31	2.2	ug/Kg	1	✱	8260C	Total/NA
Acetone	200	vs	31	5.2	ug/Kg	1	✱	8260C	Total/NA
Methylene Chloride	7.7	vs	6.1	2.8	ug/Kg	1	✱	8260C	Total/NA
2-Methylnaphthalene	180	J	210	34	ug/Kg	1	✱	8270D	Total/NA
4-Methylphenol	87	J	420	38	ug/Kg	1	✱	8270D	Total/NA
Acetophenone	61	J	210	38	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	57	J	210	39	ug/Kg	1	✱	8270D	Total/NA
Naphthalene	110	J	210	35	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	89	J	210	40	ug/Kg	1	✱	8270D	Total/NA
Pyrene	49	J	210	40	ug/Kg	1	✱	8270D	Total/NA
4,4'-DDD	8.1		4.1	0.80	ug/Kg	1	✱	8081B	Total/NA
4,4'-DDE	3.2	J	4.1	0.86	ug/Kg	1	✱	8081B	Total/NA
4,4'-DDT	2.6	J	4.1	0.96	ug/Kg	1	✱	8081B	Total/NA
trans-Chlordane	2.5	J	4.1	1.3	ug/Kg	1	✱	8081B	Total/NA
Aluminum	8490		12.7	10.9	mg/Kg	1	✱	6010D	Total/NA
Antimony	1.0	J	19.0	0.67	mg/Kg	1	✱	6010D	Total/NA
Arsenic	41.5		2.5	1.1	mg/Kg	1	✱	6010D	Total/NA
Barium	368		0.63	0.18	mg/Kg	1	✱	6010D	Total/NA
Beryllium	0.88	^5-	0.25	0.051	mg/Kg	1	✱	6010D	Total/NA
Cadmium	0.15	J	0.25	0.089	mg/Kg	1	✱	6010D	Total/NA
Calcium	6720	^5-	63.5	34.3	mg/Kg	1	✱	6010D	Total/NA
Chromium	13.7		0.63	0.46	mg/Kg	1	✱	6010D	Total/NA
Cobalt	4.2		0.63	0.13	mg/Kg	1	✱	6010D	Total/NA
Copper	19.2		1.3	0.72	mg/Kg	1	✱	6010D	Total/NA
Iron	51800	^2 ^+	12.7	10.8	mg/Kg	1	✱	6010D	Total/NA
Lead	23.6		1.3	0.58	mg/Kg	1	✱	6010D	Total/NA
Magnesium	1740		25.4	10.8	mg/Kg	1	✱	6010D	Total/NA
Manganese	66.0	^5-	1.3	0.36	mg/Kg	1	✱	6010D	Total/NA
Nickel	12.1	^5-	6.3	0.32	mg/Kg	1	✱	6010D	Total/NA
Potassium	1100		38.1	30.8	mg/Kg	1	✱	6010D	Total/NA
Selenium	1.9	J	5.1	1.0	mg/Kg	1	✱	6010D	Total/NA
Sodium	349		178	77.8	mg/Kg	1	✱	6010D	Total/NA
Vanadium	21.8		0.63	0.17	mg/Kg	1	✱	6010D	Total/NA
Zinc	17.0	^5-	2.5	1.3	mg/Kg	1	✱	6010D	Total/NA
Mercury	0.082		0.024	0.0056	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: RI-BH-5 Fill

Lab Sample ID: 480-229710-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	45	vs	28	2.1	ug/Kg	1	✱	8260C	Total/NA
Acetone	260	vs	28	4.7	ug/Kg	1	✱	8260C	Total/NA
Carbon disulfide	8.8	vs	5.6	2.8	ug/Kg	1	✱	8260C	Total/NA
Chloroform	0.45	J vs	5.6	0.35	ug/Kg	1	✱	8260C	Total/NA
Methylene Chloride	3.9	J vs	5.6	2.6	ug/Kg	1	✱	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-5 Fill (Continued)

Lab Sample ID: 480-229710-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	80	J	190	26	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	120	J	190	32	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	190		190	26	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	250		190	33	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	85	J	190	43	ug/Kg	1	✱	8270D	Total/NA
Chrysene	130	J	190	46	ug/Kg	1	✱	8270D	Total/NA
Dibenz(a,h)anthracene	39	J	190	38	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	170	J	190	35	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	140	J	190	28	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	65	J	190	36	ug/Kg	1	✱	8270D	Total/NA
Pyrene	150	J	190	36	ug/Kg	1	✱	8270D	Total/NA
4,4'-DDT	1.8	J F2	3.7	0.87	ug/Kg	1	✱	8081B	Total/NA
alpha-BHC	0.75	J F1 F2	3.7	0.67	ug/Kg	1	✱	8081B	Total/NA
delta-BHC	0.77	J F2	3.7	0.69	ug/Kg	1	✱	8081B	Total/NA
Endrin	1.1	J F2	3.7	0.74	ug/Kg	1	✱	8081B	Total/NA
Aluminum	14300		11.3	9.8	mg/Kg	1	✱	6010D	Total/NA
Arsenic	11.9		2.3	1.0	mg/Kg	1	✱	6010D	Total/NA
Barium	115		0.57	0.16	mg/Kg	1	✱	6010D	Total/NA
Beryllium	1.5	^5-	0.23	0.045	mg/Kg	1	✱	6010D	Total/NA
Cadmium	0.24		0.23	0.079	mg/Kg	1	✱	6010D	Total/NA
Calcium	26100		56.7	30.6	mg/Kg	1	✱	6010D	Total/NA
Chromium	14.0		0.57	0.41	mg/Kg	1	✱	6010D	Total/NA
Cobalt	9.4		0.57	0.11	mg/Kg	1	✱	6010D	Total/NA
Copper	42.8		1.1	0.65	mg/Kg	1	✱	6010D	Total/NA
Iron	25400	^2 ^+	11.3	9.6	mg/Kg	1	✱	6010D	Total/NA
Lead	40.3		1.1	0.52	mg/Kg	1	✱	6010D	Total/NA
Magnesium	9010		22.7	9.6	mg/Kg	1	✱	6010D	Total/NA
Manganese	405		1.1	0.32	mg/Kg	1	✱	6010D	Total/NA
Nickel	20.8	^5-	5.7	0.28	mg/Kg	1	✱	6010D	Total/NA
Potassium	2240		34.0	27.5	mg/Kg	1	✱	6010D	Total/NA
Selenium	1.2	J	4.5	0.91	mg/Kg	1	✱	6010D	Total/NA
Sodium	259		159	69.5	mg/Kg	1	✱	6010D	Total/NA
Vanadium	17.9		0.57	0.15	mg/Kg	1	✱	6010D	Total/NA
Zinc	107	^5-	2.3	1.2	mg/Kg	1	✱	6010D	Total/NA
Mercury	0.047		0.022	0.0051	mg/Kg	1	✱	7471B	Total/NA
Cyanide, Total	1.0		1.0	0.49	mg/Kg	1	✱	9012B	Total/NA

Client Sample ID: RI-BH-5 Native

Lab Sample ID: 480-229710-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	16	J vs	30	5.1	ug/Kg	1	✱	8260C	Total/NA
Chloroform	0.46	J vs	6.0	0.37	ug/Kg	1	✱	8260C	Total/NA
Methylene Chloride	8.3	B vs	6.0	2.8	ug/Kg	1	✱	8260C	Total/NA
Aluminum	12000		12.6	10.8	mg/Kg	1	✱	6010D	Total/NA
Arsenic	9.3		2.5	1.1	mg/Kg	1	✱	6010D	Total/NA
Barium	76.6		0.63	0.18	mg/Kg	1	✱	6010D	Total/NA
Beryllium	0.76	^5-	0.25	0.050	mg/Kg	1	✱	6010D	Total/NA
Cadmium	0.36		0.25	0.088	mg/Kg	1	✱	6010D	Total/NA
Calcium	2270	^5-	62.9	34.0	mg/Kg	1	✱	6010D	Total/NA
Chromium	16.1		0.63	0.45	mg/Kg	1	✱	6010D	Total/NA
Cobalt	10.1		0.63	0.13	mg/Kg	1	✱	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-5 Native (Continued)

Lab Sample ID: 480-229710-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	21.6		1.3	0.72	mg/Kg	1	✱	6010D	Total/NA
Iron	24900	^2 ^+	12.6	10.7	mg/Kg	1	✱	6010D	Total/NA
Lead	30.1		1.3	0.58	mg/Kg	1	✱	6010D	Total/NA
Magnesium	3150		25.2	10.7	mg/Kg	1	✱	6010D	Total/NA
Manganese	463		1.3	0.35	mg/Kg	1	✱	6010D	Total/NA
Nickel	28.0	^5-	6.3	0.31	mg/Kg	1	✱	6010D	Total/NA
Potassium	2300		37.7	30.5	mg/Kg	1	✱	6010D	Total/NA
Sodium	139	J	176	77.1	mg/Kg	1	✱	6010D	Total/NA
Vanadium	24.8		0.63	0.16	mg/Kg	1	✱	6010D	Total/NA
Zinc	70.9	^5-	2.5	1.3	mg/Kg	1	✱	6010D	Total/NA
Mercury	0.015	J	0.025	0.0057	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: RI-BH-6 Fill

Lab Sample ID: 480-229710-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	30	vs	30	5.0	ug/Kg	1	✱	8260C	Total/NA
Chloroform	0.44	J vs	5.9	0.37	ug/Kg	1	✱	8260C	Total/NA
Methylene Chloride	5.8	J B vs	5.9	2.7	ug/Kg	1	✱	8260C	Total/NA
Methoxychlor	0.98	J	4.1	0.83	ug/Kg	1	✱	8081B	Total/NA
Aluminum	18700		12.2	10.6	mg/Kg	1	✱	6010D	Total/NA
Arsenic	11.0		2.4	1.1	mg/Kg	1	✱	6010D	Total/NA
Barium	177		0.61	0.17	mg/Kg	1	✱	6010D	Total/NA
Beryllium	1.3	^5-	0.24	0.049	mg/Kg	1	✱	6010D	Total/NA
Cadmium	0.55		0.24	0.086	mg/Kg	1	✱	6010D	Total/NA
Calcium	22800		61.2	33.0	mg/Kg	1	✱	6010D	Total/NA
Chromium	19.1		0.61	0.44	mg/Kg	1	✱	6010D	Total/NA
Cobalt	9.5		0.61	0.12	mg/Kg	1	✱	6010D	Total/NA
Copper	31.2		1.2	0.70	mg/Kg	1	✱	6010D	Total/NA
Iron	35200	^2 ^+	12.2	10.4	mg/Kg	1	✱	6010D	Total/NA
Lead	262		1.2	0.56	mg/Kg	1	✱	6010D	Total/NA
Magnesium	7350		24.5	10.4	mg/Kg	1	✱	6010D	Total/NA
Manganese	485		1.2	0.34	mg/Kg	1	✱	6010D	Total/NA
Nickel	20.4	^5-	6.1	0.31	mg/Kg	1	✱	6010D	Total/NA
Potassium	2100		36.7	29.7	mg/Kg	1	✱	6010D	Total/NA
Selenium	1.3	J	4.9	0.98	mg/Kg	1	✱	6010D	Total/NA
Sodium	361		171	75.1	mg/Kg	1	✱	6010D	Total/NA
Vanadium	30.4		0.61	0.16	mg/Kg	1	✱	6010D	Total/NA
Zinc	127	^5-	2.4	1.2	mg/Kg	1	✱	6010D	Total/NA
Mercury	0.42		0.024	0.0056	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: RI-BH-6 Native

Lab Sample ID: 480-229710-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	15	J vs	27	4.5	ug/Kg	1	✱	8260C	Total/NA
Carbon disulfide	5.1	J vs	5.3	2.7	ug/Kg	1	✱	8260C	Total/NA
Phenanthrene	35	J	180	34	ug/Kg	1	✱	8270D	Total/NA
Pyrene	65	J	180	34	ug/Kg	1	✱	8270D	Total/NA
4,4'-DDE	0.78	J	3.6	0.75	ug/Kg	1	✱	8081B	Total/NA
Methoxychlor	2.2	J	3.6	0.72	ug/Kg	1	✱	8081B	Total/NA
Aluminum	13900		11.1	9.6	mg/Kg	1	✱	6010D	Total/NA
Antimony	1.5	J F1	16.7	0.59	mg/Kg	1	✱	6010D	Total/NA
Arsenic	10.7		2.2	0.98	mg/Kg	1	✱	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-6 Native (Continued)

Lab Sample ID: 480-229710-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Barium	117	F1	0.56	0.16	mg/Kg	1		✱	6010D	Total/NA
Beryllium	1.0	^5-	0.22	0.045	mg/Kg	1		✱	6010D	Total/NA
Cadmium	0.17	J	0.22	0.078	mg/Kg	1		✱	6010D	Total/NA
Calcium	270	^5-	55.7	30.1	mg/Kg	1		✱	6010D	Total/NA
Chromium	20.3		0.56	0.40	mg/Kg	1		✱	6010D	Total/NA
Cobalt	12.9		0.56	0.11	mg/Kg	1		✱	6010D	Total/NA
Copper	42.0		1.1	0.64	mg/Kg	1		✱	6010D	Total/NA
Iron	40300	^2 ^+	11.1	9.5	mg/Kg	1		✱	6010D	Total/NA
Lead	18.3		1.1	0.51	mg/Kg	1		✱	6010D	Total/NA
Magnesium	3750		22.3	9.5	mg/Kg	1		✱	6010D	Total/NA
Manganese	125	^5-	1.1	0.31	mg/Kg	1		✱	6010D	Total/NA
Nickel	33.6	^5-	5.6	0.28	mg/Kg	1		✱	6010D	Total/NA
Potassium	2910		33.4	27.0	mg/Kg	1		✱	6010D	Total/NA
Selenium	1.6	J	4.5	0.89	mg/Kg	1		✱	6010D	Total/NA
Sodium	133	J	156	68.3	mg/Kg	1		✱	6010D	Total/NA
Vanadium	27.2		0.56	0.14	mg/Kg	1		✱	6010D	Total/NA
Zinc	44.2	^5-	2.2	1.1	mg/Kg	1		✱	6010D	Total/NA
Mercury	0.028		0.022	0.0051	mg/Kg	1		✱	7471B	Total/NA

Client Sample ID: RI-BH-7 Fill

Lab Sample ID: 480-229710-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
2-Butanone (MEK)	7.6	J vs	33	2.4	ug/Kg	1		✱	8260C	Total/NA
Acetone	49	vs	33	5.6	ug/Kg	1		✱	8260C	Total/NA
Benzene	0.68	J vs	6.7	0.33	ug/Kg	1		✱	8260C	Total/NA
Carbon disulfide	6.0	J vs	6.7	3.3	ug/Kg	1		✱	8260C	Total/NA
Toluene	0.78	J vs	6.7	0.50	ug/Kg	1		✱	8260C	Total/NA
2-Methylnaphthalene	140	J	230	36	ug/Kg	1		✱	8270D	Total/NA
4-Methylphenol	71	J	440	41	ug/Kg	1		✱	8270D	Total/NA
Acenaphthene	69	J	230	42	ug/Kg	1		✱	8270D	Total/NA
Acenaphthylene	590		230	44	ug/Kg	1		✱	8270D	Total/NA
Anthracene	1200		230	42	ug/Kg	1		✱	8270D	Total/NA
Benzo[a]anthracene	4300		230	31	ug/Kg	1		✱	8270D	Total/NA
Benzo[a]pyrene	4100		230	39	ug/Kg	1		✱	8270D	Total/NA
Benzo[b]fluoranthene	4700		230	30	ug/Kg	1		✱	8270D	Total/NA
Benzo[g,h,i]perylene	2500		230	40	ug/Kg	1		✱	8270D	Total/NA
Benzo[k]fluoranthene	2600		230	51	ug/Kg	1		✱	8270D	Total/NA
Carbazole	130	J	230	45	ug/Kg	1		✱	8270D	Total/NA
Chrysene	4300		230	55	ug/Kg	1		✱	8270D	Total/NA
Dibenz(a,h)anthracene	720		230	46	ug/Kg	1		✱	8270D	Total/NA
Dibenzofuran	160	J	230	40	ug/Kg	1		✱	8270D	Total/NA
Fluoranthene	9200	E	230	41	ug/Kg	1		✱	8270D	Total/NA
Fluorene	340		230	42	ug/Kg	1		✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	2300		230	34	ug/Kg	1		✱	8270D	Total/NA
Naphthalene	150	J	230	38	ug/Kg	1		✱	8270D	Total/NA
Phenanthrene	4200		230	43	ug/Kg	1		✱	8270D	Total/NA
Pyrene	8100	E	230	43	ug/Kg	1		✱	8270D	Total/NA
Acenaphthylene - DL	490	J	1100	220	ug/Kg	5		✱	8270D	Total/NA
Anthracene - DL	1000	J	1100	210	ug/Kg	5		✱	8270D	Total/NA
Benzo[a]anthracene - DL	4300		1100	160	ug/Kg	5		✱	8270D	Total/NA
Benzo[a]pyrene - DL	3900		1100	190	ug/Kg	5		✱	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-7 Fill (Continued)

Lab Sample ID: 480-229710-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[b]fluoranthene - DL	5100		1100	150	ug/Kg	5	✱		8270D	Total/NA
Benzo[g,h,i]perylene - DL	2500		1100	200	ug/Kg	5	✱		8270D	Total/NA
Benzo[k]fluoranthene - DL	2200		1100	250	ug/Kg	5	✱		8270D	Total/NA
Chrysene - DL	4300		1100	270	ug/Kg	5	✱		8270D	Total/NA
Dibenz(a,h)anthracene - DL	590	J	1100	230	ug/Kg	5	✱		8270D	Total/NA
Fluoranthene - DL	10000		1100	210	ug/Kg	5	✱		8270D	Total/NA
Fluorene - DL	300	J	1100	210	ug/Kg	5	✱		8270D	Total/NA
Indeno[1,2,3-cd]pyrene - DL	2100		1100	170	ug/Kg	5	✱		8270D	Total/NA
Phenanthrene - DL	3900		1100	210	ug/Kg	5	✱		8270D	Total/NA
Pyrene - DL	7700		1100	220	ug/Kg	5	✱		8270D	Total/NA
4,4'-DDD	19	J	91	18	ug/Kg	20	✱		8081B	Total/NA
4,4'-DDT	25	J	91	21	ug/Kg	20	✱		8081B	Total/NA
Aluminum	11000		13.5	11.6	mg/Kg	1	✱		6010D	Total/NA
Antimony	53.8		20.3	0.72	mg/Kg	1	✱		6010D	Total/NA
Arsenic	33.4		2.7	1.2	mg/Kg	1	✱		6010D	Total/NA
Barium	865		0.68	0.19	mg/Kg	1	✱		6010D	Total/NA
Beryllium	0.73	^5-	0.27	0.054	mg/Kg	1	✱		6010D	Total/NA
Cadmium	1.3		0.27	0.095	mg/Kg	1	✱		6010D	Total/NA
Calcium	5460	^5-	67.5	36.4	mg/Kg	1	✱		6010D	Total/NA
Chromium	23.5		0.68	0.49	mg/Kg	1	✱		6010D	Total/NA
Cobalt	8.7		0.68	0.14	mg/Kg	1	✱		6010D	Total/NA
Copper	62.8		1.4	0.77	mg/Kg	1	✱		6010D	Total/NA
Iron	33600	^2 ^+	13.5	11.5	mg/Kg	1	✱		6010D	Total/NA
Lead	4950		1.4	0.62	mg/Kg	1	✱		6010D	Total/NA
Magnesium	2520		27.0	11.5	mg/Kg	1	✱		6010D	Total/NA
Manganese	301		1.4	0.38	mg/Kg	1	✱		6010D	Total/NA
Nickel	25.3	^5-	6.8	0.34	mg/Kg	1	✱		6010D	Total/NA
Potassium	1910		40.5	32.7	mg/Kg	1	✱		6010D	Total/NA
Selenium	2.1	J	5.4	1.1	mg/Kg	1	✱		6010D	Total/NA
Sodium	2000		189	82.8	mg/Kg	1	✱		6010D	Total/NA
Vanadium	24.1		0.68	0.18	mg/Kg	1	✱		6010D	Total/NA
Zinc	638		2.7	1.4	mg/Kg	1	✱		6010D	Total/NA
Mercury	0.34		0.026	0.0061	mg/Kg	1	✱		7471B	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-7 Native

Lab Sample ID: 480-229710-1

Date Collected: 05/27/25 10:40

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 92.3

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	F1 vs	5.3	0.38	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
1,1,2,2-Tetrachloroethane	ND	F1 vs	5.3	0.86	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.3	1.2	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
1,1,2-Trichloroethane	ND	F1 vs	5.3	0.69	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
1,1-Dichloroethane	ND	vs	5.3	0.65	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
1,1-Dichloroethene	ND	vs	5.3	0.65	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
1,2,4-Trichlorobenzene	ND	F1 vs	5.3	0.32	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
1,2-Dibromo-3-Chloropropane	ND	F1 vs	5.3	2.6	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
1,2-Dichlorobenzene	ND	F1 vs	5.3	0.41	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
1,2-Dichloroethane	ND	F1 vs	5.3	0.27	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
1,2-Dichloropropane	ND	vs	5.3	2.6	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
1,3-Dichlorobenzene	ND	F1 vs	5.3	0.27	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
1,4-Dichlorobenzene	ND	F1 vs	5.3	0.74	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
2-Butanone (MEK)	ND	F1 vs	26	1.9	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
2-Hexanone	ND	F1 vs	26	2.6	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
4-Methyl-2-pentanone (MIBK)	ND	F1 vs	26	1.7	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
Acetone	6.7	J vs	26	4.5	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
Benzene	ND	F1 vs	5.3	0.26	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
Bromoform	ND	F1 vs	5.3	2.6	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
Bromomethane	ND	vs	5.3	0.48	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
Carbon disulfide	ND	vs	5.3	2.6	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
Carbon tetrachloride	ND	F1 vs	5.3	0.51	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
Chlorobenzene	ND	F1 vs	5.3	0.70	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
Dibromochloromethane	ND	F1 vs	5.3	0.68	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
Chloroethane	ND	vs	5.3	1.2	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
Chloroform	0.41	J F1 vs	5.3	0.33	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
Chloromethane	ND	vs	5.3	0.32	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
cis-1,2-Dichloroethene	ND	F1 vs	5.3	0.68	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
Cyclohexane	ND	F1 vs	5.3	0.74	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
Bromodichloromethane	ND	F1 vs	5.3	0.71	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
Dichlorodifluoromethane	ND	vs	5.3	0.44	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
Ethylbenzene	ND	F1 vs	5.3	0.37	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
1,2-Dibromoethane	ND	F1 vs	5.3	0.68	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
Isopropylbenzene	ND	F1 vs	5.3	0.80	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
Methyl acetate	ND	vs	26	3.2	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
Methyl tert-butyl ether	ND	vs	5.3	0.52	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
Methylcyclohexane	ND	F1 vs	5.3	0.80	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
Methylene Chloride	5.1	J B vs	5.3	2.4	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
Tetrachloroethene	ND	F1 vs	5.3	0.71	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
Toluene	ND	F1 vs	5.3	0.40	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
trans-1,2-Dichloroethene	ND	F1 vs	5.3	0.55	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
trans-1,3-Dichloropropene	ND	F1 vs	5.3	2.3	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
Trichloroethene	ND	F1 vs	5.3	1.2	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
Trichlorofluoromethane	ND	vs	5.3	0.50	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
Vinyl chloride	ND	vs	5.3	0.65	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
Xylenes, Total	ND	F1 vs	11	0.89	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
cis-1,3-Dichloropropene	ND	F1 vs	5.3	0.76	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1
Styrene	ND	F1 vs	5.3	0.26	ug/Kg	✱	05/28/25 18:17	05/29/25 00:51	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-7 Native

Lab Sample ID: 480-229710-1

Date Collected: 05/27/25 10:40

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 92.3

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼		N/A	05/28/25 18:17	05/29/25 00:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		64 - 126				05/28/25 18:17	05/29/25 00:51	1
4-Bromofluorobenzene (Surr)	105		72 - 126				05/28/25 18:17	05/29/25 00:51	1
Toluene-d8 (Surr)	94		71 - 125				05/28/25 18:17	05/29/25 00:51	1
Dibromofluoromethane (Surr)	103		60 - 140				05/28/25 18:17	05/29/25 00:51	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		110	40	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
2,4,5-Trichlorophenol	ND		180	37	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
2,4,6-Trichlorophenol	ND		180	28	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
2,4-Dichlorophenol	ND		180	36	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
2,4-Dimethylphenol	ND		180	38	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
2,4-Dinitrophenol	ND		1800	35	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
2,4-Dinitrotoluene	ND		180	25	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
2,6-Dinitrotoluene	ND		180	26	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
2-Chloronaphthalene	ND		180	34	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
2-Chlorophenol	ND		180	29	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
2-Methylnaphthalene	ND		180	29	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
2-Methylphenol	ND		180	30	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
2-Nitroaniline	ND		360	31	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
2-Nitrophenol	ND		180	21	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
3,3'-Dichlorobenzidine	ND		360	53	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
3-Nitroaniline	ND		360	26	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
4,6-Dinitro-2-methylphenol	ND		360	40	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
4-Bromophenyl phenyl ether	ND		180	31	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
4-Chloro-3-methylphenol	ND		180	37	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
4-Chloroaniline	ND		180	26	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
4-Chlorophenyl phenyl ether	ND		180	38	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
4-Methylphenol	ND		360	33	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
4-Nitroaniline	ND		360	27	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
4-Nitrophenol	ND		360	50	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
Acenaphthene	ND		180	34	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
Acenaphthylene	ND		180	35	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
Acetophenone	ND		180	32	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
Anthracene	ND		180	34	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
Atrazine	ND		180	62	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
Benzaldehyde	ND		180	140	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
Benzo[a]anthracene	ND		180	25	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
Benzo[a]pyrene	ND		180	31	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
Benzo[b]fluoranthene	ND		180	24	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
Benzo[g,h,i]perylene	ND		180	32	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
Benzo[k]fluoranthene	ND		180	41	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
Biphenyl	ND		180	34	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
bis (2-chloroisopropyl) ether	ND		180	37	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
Bis(2-chloroethoxy)methane	ND		180	35	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
Bis(2-chloroethyl)ether	ND		180	34	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
Bis(2-ethylhexyl) phthalate	ND		180	40	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-7 Native

Lab Sample ID: 480-229710-1

Date Collected: 05/27/25 10:40

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 92.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	ND		180	34	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
Caprolactam	ND		180	42	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
Carbazole	ND		180	36	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
Chrysene	ND		180	44	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
Dibenz(a,h)anthracene	ND		180	37	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
Dibenzofuran	ND		180	32	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
Diethyl phthalate	ND		180	33	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
Dimethyl phthalate	ND		180	35	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
Di-n-butyl phthalate	ND		180	41	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
Di-n-octyl phthalate	ND		180	35	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
Fluoranthene	ND		180	33	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
Fluorene	ND		180	33	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
Hexachlorobenzene	ND		180	35	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
Hexachlorobutadiene	ND		180	27	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
Hexachlorocyclopentadiene	ND		360	80	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
Hexachloroethane	ND		180	33	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
Indeno[1,2,3-cd]pyrene	ND		180	27	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
Isophorone	ND		180	37	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
Naphthalene	ND		180	30	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
Nitrobenzene	ND		180	31	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
N-Nitrosodi-n-propylamine	ND		180	41	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
N-Nitrosodiphenylamine	ND		180	30	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
Pentachlorophenol	ND		360	58	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
Phenanthrene	ND		180	34	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
Phenol	ND		180	33	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1
Pyrene	42 J		180	35	ug/Kg	☼	05/29/25 13:50	05/30/25 13:39	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	12000	T J	ug/Kg	☼	2.00	N/A	05/29/25 13:50	05/30/25 13:39	1
Unknown	2900	T J	ug/Kg	☼	3.47	N/A	05/29/25 13:50	05/30/25 13:39	1
Unknown	630	T J	ug/Kg	☼	7.81	N/A	05/29/25 13:50	05/30/25 13:39	1
Tridecane	740	T J N	ug/Kg	☼	8.00	629-50-5	05/29/25 13:50	05/30/25 13:39	1
Dotriacontane	970	T J N	ug/Kg	☼	8.67	544-85-4	05/29/25 13:50	05/30/25 13:39	1
Decane, 3,7-dimethyl-	800	T J N	ug/Kg	☼	9.05	17312-54-8	05/29/25 13:50	05/30/25 13:39	1
Hexadecane	1500	T J N	ug/Kg	☼	9.87	544-76-3	05/29/25 13:50	05/30/25 13:39	1
Unknown	1400	T J	ug/Kg	☼	10.12	N/A	05/29/25 13:50	05/30/25 13:39	1
Heptadecane	2800	T J N	ug/Kg	☼	10.39	629-78-7	05/29/25 13:50	05/30/25 13:39	1
Hexatriacontane	1500	T J N	ug/Kg	☼	10.85	630-06-8	05/29/25 13:50	05/30/25 13:39	1
Nonadecane	1300	T J N	ug/Kg	☼	11.27	629-92-5	05/29/25 13:50	05/30/25 13:39	1
Eicosane	1200	T J N	ug/Kg	☼	11.65	112-95-8	05/29/25 13:50	05/30/25 13:39	1
Heneicosane	1200	T J N	ug/Kg	☼	11.99	629-94-7	05/29/25 13:50	05/30/25 13:39	1
Bacchotricuneatin c	1400	T J N	ug/Kg	☼	12.32	66563-30-2	05/29/25 13:50	05/30/25 13:39	1
Tricosane	1000	T J N	ug/Kg	☼	12.63	638-67-5	05/29/25 13:50	05/30/25 13:39	1
Dodecane, 2-methyl-6-propyl-	1300	T J N	ug/Kg	☼	12.91	55045-08-4	05/29/25 13:50	05/30/25 13:39	1
Octadecane	1200	T J N	ug/Kg	☼	13.19	593-45-3	05/29/25 13:50	05/30/25 13:39	1
1-Iodoundecane	900	T J N	ug/Kg	☼	13.46	4282-44-4	05/29/25 13:50	05/30/25 13:39	1
Heneicosane, 11-pentyl-	1000	T J N	ug/Kg	☼	13.72	14739-72-1	05/29/25 13:50	05/30/25 13:39	1
Hentriacontane	680	T J N	ug/Kg	☼	13.97	630-04-6	05/29/25 13:50	05/30/25 13:39	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-7 Native

Lab Sample ID: 480-229710-1

Date Collected: 05/27/25 10:40

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 92.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		10 - 140	05/29/25 13:50	05/30/25 13:39	1
2-Fluorobiphenyl (Surr)	94		29 - 120	05/29/25 13:50	05/30/25 13:39	1
2-Fluorophenol (Surr)	89		18 - 120	05/29/25 13:50	05/30/25 13:39	1
Nitrobenzene-d5 (Surr)	91		22 - 120	05/29/25 13:50	05/30/25 13:39	1
Phenol-d5 (Surr)	89		23 - 120	05/29/25 13:50	05/30/25 13:39	1
p-Terphenyl-d14 (Surr)	90		28 - 124	05/29/25 13:50	05/30/25 13:39	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		3.5	0.68	ug/Kg	☆	05/29/25 06:48	05/30/25 10:49	1
4,4'-DDE	ND		3.5	0.73	ug/Kg	☆	05/29/25 06:48	05/30/25 10:49	1
4,4'-DDT	ND		3.5	0.82	ug/Kg	☆	05/29/25 06:48	05/30/25 10:49	1
beta-BHC	ND		3.5	0.63	ug/Kg	☆	05/29/25 06:48	05/30/25 10:49	1
cis-Chlordane	ND		3.5	1.7	ug/Kg	☆	05/29/25 06:48	05/30/25 10:49	1
alpha-BHC	ND		3.5	0.63	ug/Kg	☆	05/29/25 06:48	05/30/25 10:49	1
Aldrin	ND		3.5	0.86	ug/Kg	☆	05/29/25 06:48	05/30/25 10:49	1
delta-BHC	ND		3.5	0.65	ug/Kg	☆	05/29/25 06:48	05/30/25 10:49	1
Dieldrin	ND	F2	3.5	0.84	ug/Kg	☆	05/29/25 06:48	05/30/25 10:49	1
Endosulfan I	ND		3.5	0.67	ug/Kg	☆	05/29/25 06:48	05/30/25 10:49	1
Endosulfan II	ND		3.5	0.63	ug/Kg	☆	05/29/25 06:48	05/30/25 10:49	1
Endosulfan sulfate	ND		3.5	0.65	ug/Kg	☆	05/29/25 06:48	05/30/25 10:49	1
Endrin	ND		3.5	0.69	ug/Kg	☆	05/29/25 06:48	05/30/25 10:49	1
Endrin aldehyde	ND		3.5	0.89	ug/Kg	☆	05/29/25 06:48	05/30/25 10:49	1
Endrin ketone	ND		3.5	0.86	ug/Kg	☆	05/29/25 06:48	05/30/25 10:49	1
gamma-BHC (Lindane)	ND	F1 F2	3.5	0.64	ug/Kg	☆	05/29/25 06:48	05/30/25 10:49	1
trans-Chlordane	ND		3.5	1.1	ug/Kg	☆	05/29/25 06:48	05/30/25 10:49	1
Heptachlor	ND		3.5	0.75	ug/Kg	☆	05/29/25 06:48	05/30/25 10:49	1
Heptachlor epoxide	ND		3.5	0.90	ug/Kg	☆	05/29/25 06:48	05/30/25 10:49	1
Methoxychlor	ND		3.5	0.71	ug/Kg	☆	05/29/25 06:48	05/30/25 10:49	1
Toxaphene	ND		35	20	ug/Kg	☆	05/29/25 06:48	05/30/25 10:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	62		45 - 120	05/29/25 06:48	05/30/25 10:49	1
DCB Decachlorobiphenyl	72		45 - 120	05/29/25 06:48	05/30/25 10:49	1
Tetrachloro-m-xylene	54		30 - 124	05/29/25 06:48	05/30/25 10:49	1
Tetrachloro-m-xylene	51		30 - 124	05/29/25 06:48	05/30/25 10:49	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.19	0.036	mg/Kg	☆	05/30/25 06:41	05/30/25 15:07	1
PCB-1221	ND		0.19	0.036	mg/Kg	☆	05/30/25 06:41	05/30/25 15:07	1
PCB-1232	ND		0.19	0.036	mg/Kg	☆	05/30/25 06:41	05/30/25 15:07	1
PCB-1242	ND		0.19	0.036	mg/Kg	☆	05/30/25 06:41	05/30/25 15:07	1
PCB-1248	ND		0.19	0.036	mg/Kg	☆	05/30/25 06:41	05/30/25 15:07	1
PCB-1254	ND		0.19	0.087	mg/Kg	☆	05/30/25 06:41	05/30/25 15:07	1
PCB-1260	ND		0.19	0.087	mg/Kg	☆	05/30/25 06:41	05/30/25 15:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	94		60 - 154	05/30/25 06:41	05/30/25 15:07	1
Tetrachloro-m-xylene	102		60 - 154	05/30/25 06:41	05/30/25 15:07	1
DCB Decachlorobiphenyl	99		65 - 174	05/30/25 06:41	05/30/25 15:07	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-7 Native

Lab Sample ID: 480-229710-1

Date Collected: 05/27/25 10:40

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 92.3

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	103		65 - 174	05/30/25 06:41	05/30/25 15:07	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.39	0.13	ng/g	✱	06/01/25 11:59	06/02/25 12:04	1
Perfluoropentanoic acid (PFPeA)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 12:04	1
Perfluorohexanoic acid (PFHxA)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 12:04	1
Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 12:04	1
Perfluorooctanoic acid (PFOA)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 12:04	1
Perfluorononanoic acid (PFNA)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 12:04	1
Perfluorodecanoic acid (PFDA)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 12:04	1
Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 12:04	1
Perfluorododecanoic acid (PFDoA)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 12:04	1
Perfluorotridecanoic acid (PFTriDA)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 12:04	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 12:04	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 12:04	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 12:04	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 12:04	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 12:04	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.20	0.11	ng/g	✱	06/01/25 11:59	06/02/25 12:04	1
Perfluorononanesulfonic acid (PFNS)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 12:04	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 12:04	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 12:04	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.39	0.098	ng/g	✱	06/01/25 11:59	06/02/25 12:04	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.39	0.13	ng/g	✱	06/01/25 11:59	06/02/25 12:04	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.39	0.13	ng/g	✱	06/01/25 11:59	06/02/25 12:04	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.088	ng/g	✱	06/01/25 11:59	06/02/25 12:04	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.20	0.088	ng/g	✱	06/01/25 11:59	06/02/25 12:04	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.20	0.098	ng/g	✱	06/01/25 11:59	06/02/25 12:04	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.20	0.078	ng/g	✱	06/01/25 11:59	06/02/25 12:04	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.20	0.11	ng/g	✱	06/01/25 11:59	06/02/25 12:04	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		0.98	0.29	ng/g	✱	06/01/25 11:59	06/02/25 12:04	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		0.98	0.29	ng/g	✱	06/01/25 11:59	06/02/25 12:04	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.20	0.11	ng/g	✱	06/01/25 11:59	06/02/25 12:04	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 12:04	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 12:04	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 12:04	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-7 Native

Lab Sample ID: 480-229710-1

Date Collected: 05/27/25 10:40

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 92.3

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.20	0.069	ng/g	☼	06/01/25 11:59	06/02/25 12:04	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid (9CI-PF3ONS)	ND		0.20	0.088	ng/g	☼	06/01/25 11:59	06/02/25 12:04	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11CI-PF3OUdS)	ND		0.20	0.078	ng/g	☼	06/01/25 11:59	06/02/25 12:04	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.20	0.049	ng/g	☼	06/01/25 11:59	06/02/25 12:04	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.39	0.20	ng/g	☼	06/01/25 11:59	06/02/25 12:04	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		0.98	0.49	ng/g	☼	06/01/25 11:59	06/02/25 12:04	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		0.98	0.39	ng/g	☼	06/01/25 11:59	06/02/25 12:04	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	100		8 - 130	06/01/25 11:59	06/02/25 12:04	1
13C5-PFPeA	103		35 - 130	06/01/25 11:59	06/02/25 12:04	1
13C5-PFHxA	104		40 - 130	06/01/25 11:59	06/02/25 12:04	1
13C4-PFHpA	104		40 - 130	06/01/25 11:59	06/02/25 12:04	1
13C8-PFOA	102		40 - 130	06/01/25 11:59	06/02/25 12:04	1
13C9-PFNA	95.1		40 - 130	06/01/25 11:59	06/02/25 12:04	1
13C6-PFDA	90.7		40 - 130	06/01/25 11:59	06/02/25 12:04	1
13C7-PFUnA	82.7		40 - 130	06/01/25 11:59	06/02/25 12:04	1
13C2-PFTeDA	62.5		20 - 130	06/01/25 11:59	06/02/25 12:04	1
13C3-PFBS	98.7		40 - 135	06/01/25 11:59	06/02/25 12:04	1
13C3-PFHxS	96.6		40 - 130	06/01/25 11:59	06/02/25 12:04	1
13C8-PFOS	87.4		40 - 130	06/01/25 11:59	06/02/25 12:04	1
13C8-PFOSA	84.4		40 - 130	06/01/25 11:59	06/02/25 12:04	1
d3-NMeFOSAA	82.6		40 - 135	06/01/25 11:59	06/02/25 12:04	1
d5-NEtFOSAA	131		40 - 150	06/01/25 11:59	06/02/25 12:04	1
13C2 4:2 FTS	108		40 - 165	06/01/25 11:59	06/02/25 12:04	1
13C2 6:2 FTS	117		40 - 215	06/01/25 11:59	06/02/25 12:04	1
13C2 8:2 FTS	105		40 - 275	06/01/25 11:59	06/02/25 12:04	1
13C3-HFPO-DA	96.5		40 - 130	06/01/25 11:59	06/02/25 12:04	1
D7-NMeFOSE	37.3		20 - 130	06/01/25 11:59	06/02/25 12:04	1
D9-NEtFOSE	27.4		15 - 130	06/01/25 11:59	06/02/25 12:04	1
d5-NEtPFOSA	58.5		10 - 130	06/01/25 11:59	06/02/25 12:04	1
d3-NMePFOSA	62.6		10 - 130	06/01/25 11:59	06/02/25 12:04	1
13C2 PFDoA	71.4		40 - 130	06/01/25 11:59	06/02/25 12:04	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11200		11.1	9.6	mg/Kg	☼	05/28/25 15:39	05/29/25 12:53	1
Antimony	0.96	J	16.6	0.59	mg/Kg	☼	05/28/25 15:39	05/29/25 12:53	1
Arsenic	11.7		2.2	0.98	mg/Kg	☼	05/28/25 15:39	05/29/25 12:53	1
Barium	56.1		0.55	0.16	mg/Kg	☼	05/28/25 15:39	05/29/25 12:53	1
Beryllium	0.72	^5-	0.22	0.044	mg/Kg	☼	05/28/25 15:39	05/29/25 12:53	1
Cadmium	0.20	J	0.22	0.078	mg/Kg	☼	05/28/25 15:39	05/29/25 12:53	1
Calcium	1140		55.4	29.9	mg/Kg	☼	05/28/25 15:39	05/29/25 12:53	1
Chromium	15.4		0.55	0.40	mg/Kg	☼	05/28/25 15:39	05/29/25 12:53	1
Cobalt	21.0		0.55	0.11	mg/Kg	☼	05/28/25 15:39	05/29/25 12:53	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-7 Native

Lab Sample ID: 480-229710-1

Date Collected: 05/27/25 10:40

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 92.3

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	41.3		1.1	0.63	mg/Kg	✱	05/28/25 15:39	05/29/25 12:53	1
Iron	28800		11.1	9.4	mg/Kg	✱	05/28/25 15:39	05/29/25 12:53	1
Lead	37.6		1.1	0.51	mg/Kg	✱	05/28/25 15:39	05/29/25 12:53	1
Magnesium	3380		22.2	9.4	mg/Kg	✱	05/28/25 15:39	05/29/25 12:53	1
Manganese	324		1.1	0.31	mg/Kg	✱	05/28/25 15:39	05/29/25 12:53	1
Nickel	40.6	^5-	5.5	0.28	mg/Kg	✱	05/28/25 15:39	05/29/25 12:53	1
Potassium	2440		33.3	26.9	mg/Kg	✱	05/28/25 15:39	05/29/25 12:53	1
Selenium	ND		4.4	0.89	mg/Kg	✱	05/28/25 15:39	05/29/25 12:53	1
Silver	ND	^5-	0.67	0.22	mg/Kg	✱	05/28/25 15:39	05/29/25 12:53	1
Sodium	162		155	68.0	mg/Kg	✱	05/28/25 15:39	05/29/25 12:53	1
Thallium	ND		6.7	0.84	mg/Kg	✱	05/28/25 15:39	05/29/25 12:53	1
Vanadium	17.1		0.55	0.14	mg/Kg	✱	05/28/25 15:39	05/29/25 12:53	1
Zinc	94.4	^5-	2.2	1.1	mg/Kg	✱	05/28/25 15:39	05/29/25 12:53	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.021	0.0048	mg/Kg	✱	05/30/25 13:38	05/30/25 16:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.91	0.44	mg/Kg	✱	05/29/25 12:55	05/29/25 20:23	1

Client Sample ID: RI-BH-8 Fill

Lab Sample ID: 480-229710-2

Date Collected: 05/27/25 10:50

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 75.5

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	6.6	0.48	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
1,1,2,2-Tetrachloroethane	ND	vs	6.6	1.1	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.6	1.5	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
1,1,2-Trichloroethane	ND	vs	6.6	0.86	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
1,1-Dichloroethane	ND	vs	6.6	0.80	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
1,1-Dichloroethene	ND	vs	6.6	0.81	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
1,2,4-Trichlorobenzene	ND	vs	6.6	0.40	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
1,2-Dibromo-3-Chloropropane	ND	vs	6.6	3.3	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
1,2-Dichlorobenzene	ND	vs	6.6	0.51	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
1,2-Dichloroethane	ND	vs	6.6	0.33	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
1,2-Dichloropropane	ND	vs	6.6	3.3	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
1,3-Dichlorobenzene	ND	vs	6.6	0.34	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
1,4-Dichlorobenzene	ND	vs	6.6	0.92	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
2-Butanone (MEK)	17	J vs	33	2.4	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
2-Hexanone	ND	vs	33	3.3	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
4-Methyl-2-pentanone (MIBK)	ND	vs	33	2.2	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
Acetone	95	vs	33	5.5	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
Benzene	ND	vs	6.6	0.32	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
Bromoform	ND	vs	6.6	3.3	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
Bromomethane	ND	vs	6.6	0.59	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
Carbon disulfide	ND	vs	6.6	3.3	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
Carbon tetrachloride	ND	vs	6.6	0.64	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-8 Fill

Lab Sample ID: 480-229710-2

Date Collected: 05/27/25 10:50

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 75.5

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND	vs	6.6	0.87	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
Dibromochloromethane	ND	vs	6.6	0.84	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
Chloroethane	ND	vs	6.6	1.5	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
Chloroform	0.60	J vs	6.6	0.41	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
Chloromethane	ND	vs	6.6	0.40	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
cis-1,2-Dichloroethene	ND	vs	6.6	0.84	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
Cyclohexane	ND	vs	6.6	0.92	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
Bromodichloromethane	ND	vs	6.6	0.88	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
Dichlorodifluoromethane	ND	vs	6.6	0.54	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
Ethylbenzene	ND	vs	6.6	0.45	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
1,2-Dibromoethane	ND	vs	6.6	0.85	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
Isopropylbenzene	ND	vs	6.6	0.99	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
Methyl acetate	ND	vs	33	4.0	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
Methyl tert-butyl ether	ND	vs	6.6	0.65	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
Methylcyclohexane	ND	vs	6.6	1.0	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
Methylene Chloride	4.8	J B vs	6.6	3.0	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
Tetrachloroethene	ND	vs	6.6	0.88	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
Toluene	ND	vs	6.6	0.50	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
trans-1,2-Dichloroethene	ND	vs	6.6	0.68	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
trans-1,3-Dichloropropene	ND	vs	6.6	2.9	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
Trichloroethene	ND	vs	6.6	1.4	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
Trichlorofluoromethane	ND	vs	6.6	0.62	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
Vinyl chloride	ND	vs	6.6	0.80	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
Xylenes, Total	ND	vs	13	1.1	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
cis-1,3-Dichloropropene	ND	vs	6.6	0.95	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1
Styrene	ND	vs	6.6	0.33	ug/Kg	✱	05/28/25 18:17	05/29/25 01:15	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	✱		N/A	05/28/25 18:17	05/29/25 01:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		64 - 126	05/28/25 18:17	05/29/25 01:15	1
4-Bromofluorobenzene (Surr)	106		72 - 126	05/28/25 18:17	05/29/25 01:15	1
Toluene-d8 (Surr)	91		71 - 125	05/28/25 18:17	05/29/25 01:15	1
Dibromofluoromethane (Surr)	106		60 - 140	05/28/25 18:17	05/29/25 01:15	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		130	49	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
2,4,5-Trichlorophenol	ND		220	45	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
2,4,6-Trichlorophenol	ND		220	34	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
2,4-Dichlorophenol	ND		220	43	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
2,4-Dimethylphenol	ND		220	47	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
2,4-Dinitrophenol	ND		2200	42	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
2,4-Dinitrotoluene	ND		220	30	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
2,6-Dinitrotoluene	ND		220	32	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
2-Chloronaphthalene	ND		220	41	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
2-Chlorophenol	ND		220	35	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
2-Methylnaphthalene	380		220	35	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
2-Methylphenol	ND		220	36	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-8 Fill

Lab Sample ID: 480-229710-2

Date Collected: 05/27/25 10:50

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 75.5

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	ND		430	38	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
2-Nitrophenol	ND		220	25	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
3,3'-Dichlorobenzidine	ND		430	65	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
3-Nitroaniline	ND		430	31	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
4,6-Dinitro-2-methylphenol	ND		430	49	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
4-Bromophenyl phenyl ether	ND		220	38	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
4-Chloro-3-methylphenol	ND		220	46	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
4-Chloroaniline	ND		220	32	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
4-Chlorophenyl phenyl ether	ND		220	47	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
4-Methylphenol	76	J	430	40	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
4-Nitroaniline	ND		430	33	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
4-Nitrophenol	ND		430	61	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
Acenaphthene	ND		220	41	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
Acenaphthylene	100	J	220	43	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
Acetophenone	ND		220	39	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
Anthracene	100	J	220	41	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
Atrazine	ND		220	75	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
Benzaldehyde	ND		220	170	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
Benzo[a]anthracene	430		220	31	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
Benzo[a]pyrene	390		220	38	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
Benzo[b]fluoranthene	660		220	30	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
Benzo[g,h,i]perylene	330		220	39	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
Benzo[k]fluoranthene	230		220	50	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
Biphenyl	ND		220	42	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
bis (2-chloroisopropyl) ether	ND		220	45	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
Bis(2-chloroethoxy)methane	ND		220	43	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
Bis(2-chloroethyl)ether	ND		220	42	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
Bis(2-ethylhexyl) phthalate	12000	E	220	48	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
Butyl benzyl phthalate	ND		220	41	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
Caprolactam	ND		220	51	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
Carbazole	55	J	220	44	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
Chrysene	480		220	53	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
Dibenz(a,h)anthracene	90	J	220	45	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
Dibenzofuran	86	J	220	39	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
Diethyl phthalate	ND		220	40	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
Dimethyl phthalate	ND		220	43	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
Di-n-butyl phthalate	ND		220	50	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
Di-n-octyl phthalate	ND		220	42	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
Fluoranthene	1300		220	40	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
Fluorene	69	J	220	41	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
Hexachlorobenzene	ND		220	43	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
Hexachlorobutadiene	ND		220	33	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
Hexachlorocyclopentadiene	ND		430	97	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
Hexachloroethane	ND		220	41	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
Indeno[1,2,3-cd]pyrene	270		220	33	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
Isophorone	ND		220	46	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
Naphthalene	320		220	37	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
Nitrobenzene	ND		220	37	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1
N-Nitrosodi-n-propylamine	ND		220	50	ug/Kg	✱	05/29/25 13:50	05/30/25 14:03	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-8 Fill

Lab Sample ID: 480-229710-2

Date Collected: 05/27/25 10:50

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 75.5

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	ND		220	37	ug/Kg	☼	05/29/25 13:50	05/30/25 14:03	1
Pentachlorophenol	ND		430	71	ug/Kg	☼	05/29/25 13:50	05/30/25 14:03	1
Phenanthrene	800		220	42	ug/Kg	☼	05/29/25 13:50	05/30/25 14:03	1
Phenol	ND		220	40	ug/Kg	☼	05/29/25 13:50	05/30/25 14:03	1
Pyrene	960		220	42	ug/Kg	☼	05/29/25 13:50	05/30/25 14:03	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	1000	T J	ug/Kg	☼	2.59	N/A	05/29/25 13:50	05/30/25 14:03	1
Unknown	11000	T J	ug/Kg	☼	3.48	N/A	05/29/25 13:50	05/30/25 14:03	1
Ethane, 1,1,2,2-tetrachloro-	500	T J N	ug/Kg	☼	4.60	79-34-5	05/29/25 13:50	05/30/25 14:03	1
Unknown	380	T J	ug/Kg	☼	7.40	N/A	05/29/25 13:50	05/30/25 14:03	1
Unknown	1500	T J	ug/Kg	☼	9.17	N/A	05/29/25 13:50	05/30/25 14:03	1
Unknown	3100	T J	ug/Kg	☼	9.67	N/A	05/29/25 13:50	05/30/25 14:03	1
Unknown	450	T J	ug/Kg	☼	9.78	N/A	05/29/25 13:50	05/30/25 14:03	1
Unknown	500	T J	ug/Kg	☼	9.87	N/A	05/29/25 13:50	05/30/25 14:03	1
Unknown	770	T J	ug/Kg	☼	10.40	N/A	05/29/25 13:50	05/30/25 14:03	1
Unknown	2300	T J	ug/Kg	☼	10.72	N/A	05/29/25 13:50	05/30/25 14:03	1
Unknown	510	T J	ug/Kg	☼	11.42	N/A	05/29/25 13:50	05/30/25 14:03	1
Unknown	1500	T J	ug/Kg	☼	11.49	N/A	05/29/25 13:50	05/30/25 14:03	1
Unknown	440	T J	ug/Kg	☼	11.65	N/A	05/29/25 13:50	05/30/25 14:03	1
Unknown	580	T J	ug/Kg	☼	13.76	N/A	05/29/25 13:50	05/30/25 14:03	1
Unknown	400	T J	ug/Kg	☼	13.90	N/A	05/29/25 13:50	05/30/25 14:03	1
Cyclotetrasiloxane	1600	T J N	ug/Kg	☼	14.23	297-03-0	05/29/25 13:50	05/30/25 14:03	1
Heptacosane	790	T J N	ug/Kg	☼	14.74	593-49-7	05/29/25 13:50	05/30/25 14:03	1
Unknown	420	T J	ug/Kg	☼	14.91	N/A	05/29/25 13:50	05/30/25 14:03	1
Unknown	390	T J	ug/Kg	☼	15.45	N/A	05/29/25 13:50	05/30/25 14:03	1
Unknown	440	T J	ug/Kg	☼	15.73	N/A	05/29/25 13:50	05/30/25 14:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	70		10 - 140	05/29/25 13:50	05/30/25 14:03	1
2-Fluorobiphenyl (Surr)	72		29 - 120	05/29/25 13:50	05/30/25 14:03	1
2-Fluorophenol (Surr)	66		18 - 120	05/29/25 13:50	05/30/25 14:03	1
Nitrobenzene-d5 (Surr)	58		22 - 120	05/29/25 13:50	05/30/25 14:03	1
Phenol-d5 (Surr)	76		23 - 120	05/29/25 13:50	05/30/25 14:03	1
p-Terphenyl-d14 (Surr)	68		28 - 124	05/29/25 13:50	05/30/25 14:03	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		660	240	ug/Kg	☼	05/29/25 13:50	06/02/25 17:43	5
2,4,5-Trichlorophenol	ND		1100	230	ug/Kg	☼	05/29/25 13:50	06/02/25 17:43	5
2,4,6-Trichlorophenol	ND		1100	170	ug/Kg	☼	05/29/25 13:50	06/02/25 17:43	5
2,4-Dichlorophenol	ND		1100	220	ug/Kg	☼	05/29/25 13:50	06/02/25 17:43	5
2,4-Dimethylphenol	ND		1100	230	ug/Kg	☼	05/29/25 13:50	06/02/25 17:43	5
2,4-Dinitrophenol	ND		11000	210	ug/Kg	☼	05/29/25 13:50	06/02/25 17:43	5
2,4-Dinitrotoluene	ND		1100	150	ug/Kg	☼	05/29/25 13:50	06/02/25 17:43	5
2,6-Dinitrotoluene	ND		1100	160	ug/Kg	☼	05/29/25 13:50	06/02/25 17:43	5
2-Chloronaphthalene	ND		1100	210	ug/Kg	☼	05/29/25 13:50	06/02/25 17:43	5
2-Chlorophenol	ND		1100	170	ug/Kg	☼	05/29/25 13:50	06/02/25 17:43	5
2-Methylnaphthalene	270 J		1100	170	ug/Kg	☼	05/29/25 13:50	06/02/25 17:43	5
2-Methylphenol	ND		1100	180	ug/Kg	☼	05/29/25 13:50	06/02/25 17:43	5

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-8 Fill

Lab Sample ID: 480-229710-2

Date Collected: 05/27/25 10:50

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 75.5

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	ND		2200	190	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
2-Nitrophenol	ND		1100	130	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
3,3'-Dichlorobenzidine	ND		2200	330	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
3-Nitroaniline	ND		2200	160	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
4,6-Dinitro-2-methylphenol	ND		2200	240	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
4-Bromophenyl phenyl ether	ND		1100	190	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
4-Chloro-3-methylphenol	ND		1100	230	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
4-Chloroaniline	ND		1100	160	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
4-Chlorophenyl phenyl ether	ND		1100	230	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
4-Methylphenol	ND		2200	200	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
4-Nitroaniline	ND		2200	160	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
4-Nitrophenol	ND		2200	300	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
Acenaphthene	ND		1100	210	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
Acenaphthylene	ND		1100	210	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
Acetophenone	ND		1100	200	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
Anthracene	ND		1100	200	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
Atrazine	ND		1100	380	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
Benzaldehyde	ND		1100	850	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
Benzo[a]anthracene	450	J	1100	150	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
Benzo[a]pyrene	ND		1100	190	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
Benzo[b]fluoranthene	600	J	1100	150	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
Benzo[g,h,i]perylene	300	J	1100	190	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
Benzo[k]fluoranthene	ND		1100	250	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
Biphenyl	ND		1100	210	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
bis (2-chloroisopropyl) ether	ND		1100	230	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
Bis(2-chloroethoxy)methane	ND		1100	210	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
Bis(2-chloroethyl)ether	ND		1100	210	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
Bis(2-ethylhexyl) phthalate	12000		1100	240	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
Butyl benzyl phthalate	ND		1100	200	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
Caprolactam	ND		1100	260	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
Carbazole	ND		1100	220	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
Chrysene	350	J	1100	270	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
Dibenz(a,h)anthracene	ND		1100	220	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
Dibenzofuran	ND		1100	200	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
Diethyl phthalate	ND		1100	200	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
Dimethyl phthalate	ND		1100	210	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
Di-n-butyl phthalate	ND		1100	250	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
Di-n-octyl phthalate	ND		1100	210	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
Fluoranthene	1200		1100	200	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
Fluorene	ND		1100	200	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
Hexachlorobenzene	ND		1100	210	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
Hexachlorobutadiene	ND		1100	170	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
Hexachlorocyclopentadiene	ND		2200	490	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
Hexachloroethane	ND		1100	200	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
Indeno[1,2,3-cd]pyrene	250	J	1100	170	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
Isophorone	ND		1100	230	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
Naphthalene	270	J	1100	180	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
Nitrobenzene	ND		1100	190	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5
N-Nitrosodi-n-propylamine	ND		1100	250	ug/Kg	☆	05/29/25 13:50	06/02/25 17:43	5

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-8 Fill

Lab Sample ID: 480-229710-2

Date Collected: 05/27/25 10:50

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 75.5

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	ND		1100	190	ug/Kg	☼	05/29/25 13:50	06/02/25 17:43	5
Pentachlorophenol	ND		2200	350	ug/Kg	☼	05/29/25 13:50	06/02/25 17:43	5
Phenanthrene	650	J	1100	210	ug/Kg	☼	05/29/25 13:50	06/02/25 17:43	5
Phenol	ND		1100	200	ug/Kg	☼	05/29/25 13:50	06/02/25 17:43	5
Pyrene	930	J	1100	210	ug/Kg	☼	05/29/25 13:50	06/02/25 17:43	5

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	11000	T J	ug/Kg	☼	3.47	N/A	05/29/25 13:50	06/02/25 17:43	5
Unknown	10000	T J	ug/Kg	☼	9.60	N/A	05/29/25 13:50	06/02/25 17:43	5
Unknown	3400	T J	ug/Kg	☼	10.72	N/A	05/29/25 13:50	06/02/25 17:43	5
Unknown	39000	T J	ug/Kg	☼	11.93	N/A	05/29/25 13:50	06/02/25 17:43	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	66		10 - 140	05/29/25 13:50	06/02/25 17:43	5
2-Fluorobiphenyl (Surr)	72		29 - 120	05/29/25 13:50	06/02/25 17:43	5
2-Fluorophenol (Surr)	61		18 - 120	05/29/25 13:50	06/02/25 17:43	5
Nitrobenzene-d5 (Surr)	47		22 - 120	05/29/25 13:50	06/02/25 17:43	5
Phenol-d5 (Surr)	59		23 - 120	05/29/25 13:50	06/02/25 17:43	5
p-Terphenyl-d14 (Surr)	60		28 - 124	05/29/25 13:50	06/02/25 17:43	5

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	2.7	J	4.3	0.83	ug/Kg	☼	05/29/25 06:48	05/30/25 11:08	1
4,4'-DDE	2.7	J	4.3	0.90	ug/Kg	☼	05/29/25 06:48	05/30/25 11:08	1
4,4'-DDT	4.2	J	4.3	1.0	ug/Kg	☼	05/29/25 06:48	05/30/25 11:08	1
beta-BHC	ND		4.3	0.77	ug/Kg	☼	05/29/25 06:48	05/30/25 11:08	1
cis-Chlordane	ND		4.3	2.1	ug/Kg	☼	05/29/25 06:48	05/30/25 11:08	1
alpha-BHC	ND		4.3	0.77	ug/Kg	☼	05/29/25 06:48	05/30/25 11:08	1
Aldrin	ND		4.3	1.1	ug/Kg	☼	05/29/25 06:48	05/30/25 11:08	1
delta-BHC	ND		4.3	0.80	ug/Kg	☼	05/29/25 06:48	05/30/25 11:08	1
Dieldrin	ND		4.3	1.0	ug/Kg	☼	05/29/25 06:48	05/30/25 11:08	1
Endosulfan I	ND		4.3	0.82	ug/Kg	☼	05/29/25 06:48	05/30/25 11:08	1
Endosulfan II	ND		4.3	0.77	ug/Kg	☼	05/29/25 06:48	05/30/25 11:08	1
Endosulfan sulfate	ND		4.3	0.80	ug/Kg	☼	05/29/25 06:48	05/30/25 11:08	1
Endrin	ND		4.3	0.85	ug/Kg	☼	05/29/25 06:48	05/30/25 11:08	1
Endrin aldehyde	ND		4.3	1.1	ug/Kg	☼	05/29/25 06:48	05/30/25 11:08	1
Endrin ketone	2.2	J	4.3	1.1	ug/Kg	☼	05/29/25 06:48	05/30/25 11:08	1
gamma-BHC (Lindane)	1.2	J	4.3	0.79	ug/Kg	☼	05/29/25 06:48	05/30/25 11:08	1
trans-Chlordane	ND		4.3	1.4	ug/Kg	☼	05/29/25 06:48	05/30/25 11:08	1
Heptachlor	ND		4.3	0.93	ug/Kg	☼	05/29/25 06:48	05/30/25 11:08	1
Heptachlor epoxide	ND		4.3	1.1	ug/Kg	☼	05/29/25 06:48	05/30/25 11:08	1
Methoxychlor	3.6	J B	4.3	0.88	ug/Kg	☼	05/29/25 06:48	05/30/25 11:08	1
Toxaphene	ND		43	25	ug/Kg	☼	05/29/25 06:48	05/30/25 11:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	73		45 - 120	05/29/25 06:48	05/30/25 11:08	1
DCB Decachlorobiphenyl	82		45 - 120	05/29/25 06:48	05/30/25 11:08	1
Tetrachloro-m-xylene	52		30 - 124	05/29/25 06:48	05/30/25 11:08	1
Tetrachloro-m-xylene	52		30 - 124	05/29/25 06:48	05/30/25 11:08	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-8 Fill

Lab Sample ID: 480-229710-2

Date Collected: 05/27/25 10:50

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 75.5

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.23	0.045	mg/Kg	✱	05/30/25 06:41	05/30/25 15:25	1
PCB-1221	ND		0.23	0.045	mg/Kg	✱	05/30/25 06:41	05/30/25 15:25	1
PCB-1232	ND		0.23	0.045	mg/Kg	✱	05/30/25 06:41	05/30/25 15:25	1
PCB-1242	ND		0.23	0.045	mg/Kg	✱	05/30/25 06:41	05/30/25 15:25	1
PCB-1248	ND		0.23	0.045	mg/Kg	✱	05/30/25 06:41	05/30/25 15:25	1
PCB-1254	ND		0.23	0.11	mg/Kg	✱	05/30/25 06:41	05/30/25 15:25	1
PCB-1260	ND		0.23	0.11	mg/Kg	✱	05/30/25 06:41	05/30/25 15:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	102		60 - 154	05/30/25 06:41	05/30/25 15:25	1
Tetrachloro-m-xylene	108		60 - 154	05/30/25 06:41	05/30/25 15:25	1
DCB Decachlorobiphenyl	100		65 - 174	05/30/25 06:41	05/30/25 15:25	1
DCB Decachlorobiphenyl	106		65 - 174	05/30/25 06:41	05/30/25 15:25	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.39	0.13	ng/g	✱	06/01/25 11:59	06/02/25 12:18	1
Perfluoropentanoic acid (PFPeA)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 12:18	1
Perfluorohexanoic acid (PFHxA)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 12:18	1
Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.068	ng/g	✱	06/01/25 11:59	06/02/25 12:18	1
Perfluorooctanoic acid (PFOA)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 12:18	1
Perfluorononanoic acid (PFNA)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 12:18	1
Perfluorodecanoic acid (PFDA)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 12:18	1
Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 12:18	1
Perfluorododecanoic acid (PFDoA)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 12:18	1
Perfluorotridecanoic acid (PFTriDA)	ND		0.20	0.068	ng/g	✱	06/01/25 11:59	06/02/25 12:18	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.20	0.068	ng/g	✱	06/01/25 11:59	06/02/25 12:18	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.068	ng/g	✱	06/01/25 11:59	06/02/25 12:18	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 12:18	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 12:18	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.068	ng/g	✱	06/01/25 11:59	06/02/25 12:18	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.20	0.11	ng/g	✱	06/01/25 11:59	06/02/25 12:18	1
Perfluorononanesulfonic acid (PFNS)	ND		0.20	0.068	ng/g	✱	06/01/25 11:59	06/02/25 12:18	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 12:18	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 12:18	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.39	0.098	ng/g	✱	06/01/25 11:59	06/02/25 12:18	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.39	0.13	ng/g	✱	06/01/25 11:59	06/02/25 12:18	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.39	0.13	ng/g	✱	06/01/25 11:59	06/02/25 12:18	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.088	ng/g	✱	06/01/25 11:59	06/02/25 12:18	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.20	0.088	ng/g	✱	06/01/25 11:59	06/02/25 12:18	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.20	0.098	ng/g	✱	06/01/25 11:59	06/02/25 12:18	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.20	0.078	ng/g	✱	06/01/25 11:59	06/02/25 12:18	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-8 Fill

Lab Sample ID: 480-229710-2

Date Collected: 05/27/25 10:50

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 75.5

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.20	0.11	ng/g	☼	06/01/25 11:59	06/02/25 12:18	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		0.98	0.29	ng/g	☼	06/01/25 11:59	06/02/25 12:18	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		0.98	0.29	ng/g	☼	06/01/25 11:59	06/02/25 12:18	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.20	0.11	ng/g	☼	06/01/25 11:59	06/02/25 12:18	1
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND		0.20	0.059	ng/g	☼	06/01/25 11:59	06/02/25 12:18	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.20	0.068	ng/g	☼	06/01/25 11:59	06/02/25 12:18	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.20	0.049	ng/g	☼	06/01/25 11:59	06/02/25 12:18	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.20	0.068	ng/g	☼	06/01/25 11:59	06/02/25 12:18	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.20	0.088	ng/g	☼	06/01/25 11:59	06/02/25 12:18	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.20	0.078	ng/g	☼	06/01/25 11:59	06/02/25 12:18	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.20	0.049	ng/g	☼	06/01/25 11:59	06/02/25 12:18	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.39	0.20	ng/g	☼	06/01/25 11:59	06/02/25 12:18	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		0.98	0.49	ng/g	☼	06/01/25 11:59	06/02/25 12:18	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		0.98	0.39	ng/g	☼	06/01/25 11:59	06/02/25 12:18	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	96.4		8 - 130	06/01/25 11:59	06/02/25 12:18	1
13C5-PFPeA	96.9		35 - 130	06/01/25 11:59	06/02/25 12:18	1
13C5-PFHxA	93.1		40 - 130	06/01/25 11:59	06/02/25 12:18	1
13C4-PFHpA	90.8		40 - 130	06/01/25 11:59	06/02/25 12:18	1
13C8-PFOA	92.9		40 - 130	06/01/25 11:59	06/02/25 12:18	1
13C9-PFNA	84.4		40 - 130	06/01/25 11:59	06/02/25 12:18	1
13C6-PFDA	91.6		40 - 130	06/01/25 11:59	06/02/25 12:18	1
13C7-PFUnA	95.1		40 - 130	06/01/25 11:59	06/02/25 12:18	1
13C2-PFTeDA	84.7		20 - 130	06/01/25 11:59	06/02/25 12:18	1
13C3-PFBS	92.2		40 - 135	06/01/25 11:59	06/02/25 12:18	1
13C3-PFHxS	87.6		40 - 130	06/01/25 11:59	06/02/25 12:18	1
13C8-PFOS	88.0		40 - 130	06/01/25 11:59	06/02/25 12:18	1
13C8-PFOSA	85.9		40 - 130	06/01/25 11:59	06/02/25 12:18	1
d3-NMeFOSAA	90.7		40 - 135	06/01/25 11:59	06/02/25 12:18	1
d5-NEtFOSAA	144		40 - 150	06/01/25 11:59	06/02/25 12:18	1
13C2 4:2 FTS	104		40 - 165	06/01/25 11:59	06/02/25 12:18	1
13C2 6:2 FTS	112		40 - 215	06/01/25 11:59	06/02/25 12:18	1
13C2 8:2 FTS	101		40 - 275	06/01/25 11:59	06/02/25 12:18	1
13C3-HFPO-DA	92.1		40 - 130	06/01/25 11:59	06/02/25 12:18	1
D7-NMeFOSE	48.5		20 - 130	06/01/25 11:59	06/02/25 12:18	1
D9-NEtFOSE	41.1		15 - 130	06/01/25 11:59	06/02/25 12:18	1
d5-NEtPFOSA	66.2		10 - 130	06/01/25 11:59	06/02/25 12:18	1
d3-NMePFOSA	72.3		10 - 130	06/01/25 11:59	06/02/25 12:18	1
13C2 PFDoA	94.5		40 - 130	06/01/25 11:59	06/02/25 12:18	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-8 Fill

Lab Sample ID: 480-229710-2

Date Collected: 05/27/25 10:50

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 75.5

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6180		66.3	57.2	mg/Kg	✱	05/28/25 15:39	05/29/25 19:18	5
Antimony	ND		99.5	3.5	mg/Kg	✱	05/28/25 15:39	05/29/25 19:18	5
Arsenic	7.9	J	13.3	5.8	mg/Kg	✱	05/28/25 15:39	05/29/25 19:18	5
Barium	124		3.3	0.93	mg/Kg	✱	05/28/25 15:39	05/29/25 19:18	5
Beryllium	0.86	J ^5-	1.3	0.27	mg/Kg	✱	05/28/25 15:39	05/29/25 19:18	5
Cadmium	ND		1.3	0.46	mg/Kg	✱	05/28/25 15:39	05/29/25 19:18	5
Calcium	3370	^5-	332	179	mg/Kg	✱	05/28/25 15:39	05/29/25 19:18	5
Chromium	10.7	^5-	3.3	2.4	mg/Kg	✱	05/28/25 15:39	05/29/25 19:18	5
Cobalt	6.4		3.3	0.66	mg/Kg	✱	05/28/25 15:39	05/29/25 19:18	5
Copper	30.6		6.6	3.8	mg/Kg	✱	05/28/25 15:39	05/29/25 19:18	5
Iron	22300	^5-	66.3	56.3	mg/Kg	✱	05/28/25 15:39	05/29/25 19:18	5
Lead	96.6		6.6	3.1	mg/Kg	✱	05/28/25 15:39	05/29/25 19:18	5
Magnesium	937		133	56.3	mg/Kg	✱	05/28/25 15:39	05/29/25 19:18	5
Manganese	80.1	^5-	6.6	1.9	mg/Kg	✱	05/28/25 15:39	05/29/25 19:18	5
Nickel	19.3	J ^5-	33.2	1.7	mg/Kg	✱	05/28/25 15:39	05/29/25 19:18	5
Potassium	1150		199	161	mg/Kg	✱	05/28/25 15:39	05/29/25 19:18	5
Selenium	ND		26.5	5.3	mg/Kg	✱	05/28/25 15:39	05/29/25 19:18	5
Silver	ND	^5-	4.0	1.3	mg/Kg	✱	05/28/25 15:39	05/29/25 19:18	5
Sodium	ND		929	407	mg/Kg	✱	05/28/25 15:39	05/29/25 19:18	5
Thallium	ND		39.8	5.0	mg/Kg	✱	05/28/25 15:39	05/29/25 19:18	5
Vanadium	20.0	^5-	3.3	0.86	mg/Kg	✱	05/28/25 15:39	05/29/25 19:18	5
Zinc	54.5	^5-	13.3	6.8	mg/Kg	✱	05/28/25 15:39	05/29/25 19:18	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.24		0.026	0.0061	mg/Kg	✱	05/30/25 13:38	05/30/25 16:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		1.2	0.57	mg/Kg	✱	05/29/25 12:55	05/29/25 20:24	1

Client Sample ID: RI-BH-8 Native

Lab Sample ID: 480-229710-3

Date Collected: 05/27/25 10:55

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 81.3

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	6.1	0.45	ug/Kg	✱	05/28/25 18:17	05/29/25 01:38	1
1,1,2,2-Tetrachloroethane	ND	vs	6.1	1.0	ug/Kg	✱	05/28/25 18:17	05/29/25 01:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.1	1.4	ug/Kg	✱	05/28/25 18:17	05/29/25 01:38	1
1,1,2-Trichloroethane	ND	vs	6.1	0.80	ug/Kg	✱	05/28/25 18:17	05/29/25 01:38	1
1,1-Dichloroethane	ND	vs	6.1	0.75	ug/Kg	✱	05/28/25 18:17	05/29/25 01:38	1
1,1-Dichloroethene	ND	vs	6.1	0.75	ug/Kg	✱	05/28/25 18:17	05/29/25 01:38	1
1,2,4-Trichlorobenzene	ND	vs	6.1	0.37	ug/Kg	✱	05/28/25 18:17	05/29/25 01:38	1
1,2-Dibromo-3-Chloropropane	ND	vs	6.1	3.1	ug/Kg	✱	05/28/25 18:17	05/29/25 01:38	1
1,2-Dichlorobenzene	ND	vs	6.1	0.48	ug/Kg	✱	05/28/25 18:17	05/29/25 01:38	1
1,2-Dichloroethane	ND	vs	6.1	0.31	ug/Kg	✱	05/28/25 18:17	05/29/25 01:38	1
1,2-Dichloropropane	ND	vs	6.1	3.1	ug/Kg	✱	05/28/25 18:17	05/29/25 01:38	1
1,3-Dichlorobenzene	ND	vs	6.1	0.32	ug/Kg	✱	05/28/25 18:17	05/29/25 01:38	1
1,4-Dichlorobenzene	ND	vs	6.1	0.86	ug/Kg	✱	05/28/25 18:17	05/29/25 01:38	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-8 Native

Lab Sample ID: 480-229710-3

Date Collected: 05/27/25 10:55

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 81.3

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND	vs	31	2.2	ug/Kg	☼	05/28/25 18:17	05/29/25 01:38	1
2-Hexanone	ND	vs	31	3.1	ug/Kg	☼	05/28/25 18:17	05/29/25 01:38	1
4-Methyl-2-pentanone (MIBK)	ND	vs	31	2.0	ug/Kg	☼	05/28/25 18:17	05/29/25 01:38	1
Acetone	5.7	J vs	31	5.2	ug/Kg	☼	05/28/25 18:17	05/29/25 01:38	1
Benzene	ND	vs	6.1	0.30	ug/Kg	☼	05/28/25 18:17	05/29/25 01:38	1
Bromoform	ND	vs	6.1	3.1	ug/Kg	☼	05/28/25 18:17	05/29/25 01:38	1
Bromomethane	ND	vs	6.1	0.55	ug/Kg	☼	05/28/25 18:17	05/29/25 01:38	1
Carbon disulfide	ND	vs	6.1	3.1	ug/Kg	☼	05/28/25 18:17	05/29/25 01:38	1
Carbon tetrachloride	ND	vs	6.1	0.59	ug/Kg	☼	05/28/25 18:17	05/29/25 01:38	1
Chlorobenzene	ND	vs	6.1	0.81	ug/Kg	☼	05/28/25 18:17	05/29/25 01:38	1
Dibromochloromethane	ND	vs	6.1	0.79	ug/Kg	☼	05/28/25 18:17	05/29/25 01:38	1
Chloroethane	ND	vs	6.1	1.4	ug/Kg	☼	05/28/25 18:17	05/29/25 01:38	1
Chloroform	0.56	J vs	6.1	0.38	ug/Kg	☼	05/28/25 18:17	05/29/25 01:38	1
Chloromethane	ND	vs	6.1	0.37	ug/Kg	☼	05/28/25 18:17	05/29/25 01:38	1
cis-1,2-Dichloroethene	ND	vs	6.1	0.79	ug/Kg	☼	05/28/25 18:17	05/29/25 01:38	1
Cyclohexane	ND	vs	6.1	0.86	ug/Kg	☼	05/28/25 18:17	05/29/25 01:38	1
Bromodichloromethane	ND	vs	6.1	0.82	ug/Kg	☼	05/28/25 18:17	05/29/25 01:38	1
Dichlorodifluoromethane	ND	vs	6.1	0.51	ug/Kg	☼	05/28/25 18:17	05/29/25 01:38	1
Ethylbenzene	ND	vs	6.1	0.42	ug/Kg	☼	05/28/25 18:17	05/29/25 01:38	1
1,2-Dibromoethane	ND	vs	6.1	0.79	ug/Kg	☼	05/28/25 18:17	05/29/25 01:38	1
Isopropylbenzene	ND	vs	6.1	0.93	ug/Kg	☼	05/28/25 18:17	05/29/25 01:38	1
Methyl acetate	ND	vs	31	3.7	ug/Kg	☼	05/28/25 18:17	05/29/25 01:38	1
Methyl tert-butyl ether	ND	vs	6.1	0.60	ug/Kg	☼	05/28/25 18:17	05/29/25 01:38	1
Methylcyclohexane	ND	vs	6.1	0.93	ug/Kg	☼	05/28/25 18:17	05/29/25 01:38	1
Methylene Chloride	4.0	J B vs	6.1	2.8	ug/Kg	☼	05/28/25 18:17	05/29/25 01:38	1
Tetrachloroethene	ND	vs	6.1	0.82	ug/Kg	☼	05/28/25 18:17	05/29/25 01:38	1
Toluene	ND	vs	6.1	0.46	ug/Kg	☼	05/28/25 18:17	05/29/25 01:38	1
trans-1,2-Dichloroethene	ND	vs	6.1	0.63	ug/Kg	☼	05/28/25 18:17	05/29/25 01:38	1
trans-1,3-Dichloropropene	ND	vs	6.1	2.7	ug/Kg	☼	05/28/25 18:17	05/29/25 01:38	1
Trichloroethene	ND	vs	6.1	1.4	ug/Kg	☼	05/28/25 18:17	05/29/25 01:38	1
Trichlorofluoromethane	ND	vs	6.1	0.58	ug/Kg	☼	05/28/25 18:17	05/29/25 01:38	1
Vinyl chloride	ND	vs	6.1	0.75	ug/Kg	☼	05/28/25 18:17	05/29/25 01:38	1
Xylenes, Total	ND	vs	12	1.0	ug/Kg	☼	05/28/25 18:17	05/29/25 01:38	1
cis-1,3-Dichloropropene	ND	vs	6.1	0.88	ug/Kg	☼	05/28/25 18:17	05/29/25 01:38	1
Styrene	ND	vs	6.1	0.31	ug/Kg	☼	05/28/25 18:17	05/29/25 01:38	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼		N/A	05/28/25 18:17	05/29/25 01:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		64 - 126				05/28/25 18:17	05/29/25 01:38	1
4-Bromofluorobenzene (Surr)	106		72 - 126				05/28/25 18:17	05/29/25 01:38	1
Toluene-d8 (Surr)	93		71 - 125				05/28/25 18:17	05/29/25 01:38	1
Dibromofluoromethane (Surr)	104		60 - 140				05/28/25 18:17	05/29/25 01:38	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		120	45	ug/Kg	☼	05/29/25 13:50	05/30/25 13:14	1
2,4,5-Trichlorophenol	ND		210	42	ug/Kg	☼	05/29/25 13:50	05/30/25 13:14	1
2,4,6-Trichlorophenol	ND		210	31	ug/Kg	☼	05/29/25 13:50	05/30/25 13:14	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-8 Native

Lab Sample ID: 480-229710-3

Date Collected: 05/27/25 10:55

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 81.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		210	40	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
2,4-Dimethylphenol	ND		210	43	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
2,4-Dinitrophenol	ND		2000	39	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
2,4-Dinitrotoluene	ND		210	28	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
2,6-Dinitrotoluene	ND		210	30	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
2-Chloronaphthalene	ND		210	38	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
2-Chlorophenol	ND		210	32	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
2-Methylnaphthalene	ND		210	32	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
2-Methylphenol	ND		210	33	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
2-Nitroaniline	ND		400	35	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
2-Nitrophenol	ND		210	23	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
3,3'-Dichlorobenzidine	ND		400	60	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
3-Nitroaniline	ND		400	29	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
4,6-Dinitro-2-methylphenol	ND		400	45	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
4-Bromophenyl phenyl ether	ND		210	35	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
4-Chloro-3-methylphenol	ND		210	42	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
4-Chloroaniline	ND	F2	210	30	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
4-Chlorophenyl phenyl ether	ND		210	43	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
4-Methylphenol	ND		400	37	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
4-Nitroaniline	ND		400	30	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
4-Nitrophenol	ND		400	56	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
Acenaphthene	ND		210	38	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
Acenaphthylene	ND		210	40	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
Acetophenone	ND		210	36	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
Anthracene	ND		210	38	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
Atrazine	ND		210	70	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
Benzaldehyde	ND		210	160	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
Benzo[a]anthracene	ND		210	28	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
Benzo[a]pyrene	ND		210	35	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
Benzo[b]fluoranthene	ND		210	28	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
Benzo[g,h,i]perylene	ND		210	36	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
Benzo[k]fluoranthene	ND		210	46	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
Biphenyl	ND		210	39	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
bis (2-chloroisopropyl) ether	ND		210	42	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
Bis(2-chloroethoxy)methane	ND		210	40	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
Bis(2-chloroethyl)ether	ND		210	39	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
Bis(2-ethylhexyl) phthalate	ND		210	45	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
Butyl benzyl phthalate	ND		210	38	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
Caprolactam	ND		210	48	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
Carbazole	ND		210	41	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
Chrysene	ND		210	50	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
Dibenz(a,h)anthracene	ND		210	42	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
Dibenzofuran	ND		210	36	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
Diethyl phthalate	ND		210	37	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
Dimethyl phthalate	ND		210	40	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
Di-n-butyl phthalate	ND		210	46	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
Di-n-octyl phthalate	ND		210	39	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
Fluoranthene	ND		210	38	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1
Fluorene	ND		210	38	ug/Kg	☆	05/29/25 13:50	05/30/25 13:14	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-8 Native

Lab Sample ID: 480-229710-3

Date Collected: 05/27/25 10:55

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 81.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	ND		210	40	ug/Kg	☼	05/29/25 13:50	05/30/25 13:14	1
Hexachlorobutadiene	ND		210	31	ug/Kg	☼	05/29/25 13:50	05/30/25 13:14	1
Hexachlorocyclopentadiene	ND		400	90	ug/Kg	☼	05/29/25 13:50	05/30/25 13:14	1
Hexachloroethane	ND		210	38	ug/Kg	☼	05/29/25 13:50	05/30/25 13:14	1
Indeno[1,2,3-cd]pyrene	ND		210	31	ug/Kg	☼	05/29/25 13:50	05/30/25 13:14	1
Isophorone	ND		210	42	ug/Kg	☼	05/29/25 13:50	05/30/25 13:14	1
Naphthalene	ND		210	34	ug/Kg	☼	05/29/25 13:50	05/30/25 13:14	1
Nitrobenzene	ND		210	35	ug/Kg	☼	05/29/25 13:50	05/30/25 13:14	1
N-Nitrosodi-n-propylamine	ND		210	46	ug/Kg	☼	05/29/25 13:50	05/30/25 13:14	1
N-Nitrosodiphenylamine	ND		210	35	ug/Kg	☼	05/29/25 13:50	05/30/25 13:14	1
Pentachlorophenol	ND		400	66	ug/Kg	☼	05/29/25 13:50	05/30/25 13:14	1
Phenanthrene	ND		210	39	ug/Kg	☼	05/29/25 13:50	05/30/25 13:14	1
Phenol	ND		210	38	ug/Kg	☼	05/29/25 13:50	05/30/25 13:14	1
Pyrene	ND		210	39	ug/Kg	☼	05/29/25 13:50	05/30/25 13:14	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	4100	T J	ug/Kg	☼	3.46	N/A	05/29/25 13:50	05/30/25 13:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	68		10 - 140	05/29/25 13:50	05/30/25 13:14	1
2-Fluorobiphenyl (Surr)	70		29 - 120	05/29/25 13:50	05/30/25 13:14	1
2-Fluorophenol (Surr)	67		18 - 120	05/29/25 13:50	05/30/25 13:14	1
Nitrobenzene-d5 (Surr)	71		22 - 120	05/29/25 13:50	05/30/25 13:14	1
Phenol-d5 (Surr)	73		23 - 120	05/29/25 13:50	05/30/25 13:14	1
p-Terphenyl-d14 (Surr)	73		28 - 124	05/29/25 13:50	05/30/25 13:14	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.1	0.79	ug/Kg	☼	05/29/25 06:48	05/30/25 11:28	1
4,4'-DDE	ND		4.1	0.85	ug/Kg	☼	05/29/25 06:48	05/30/25 11:28	1
4,4'-DDT	ND		4.1	0.95	ug/Kg	☼	05/29/25 06:48	05/30/25 11:28	1
beta-BHC	ND		4.1	0.73	ug/Kg	☼	05/29/25 06:48	05/30/25 11:28	1
cis-Chlordane	ND		4.1	2.0	ug/Kg	☼	05/29/25 06:48	05/30/25 11:28	1
alpha-BHC	ND		4.1	0.73	ug/Kg	☼	05/29/25 06:48	05/30/25 11:28	1
Aldrin	ND		4.1	1.0	ug/Kg	☼	05/29/25 06:48	05/30/25 11:28	1
delta-BHC	ND		4.1	0.75	ug/Kg	☼	05/29/25 06:48	05/30/25 11:28	1
Dieldrin	ND		4.1	0.97	ug/Kg	☼	05/29/25 06:48	05/30/25 11:28	1
Endosulfan I	ND		4.1	0.78	ug/Kg	☼	05/29/25 06:48	05/30/25 11:28	1
Endosulfan II	ND		4.1	0.73	ug/Kg	☼	05/29/25 06:48	05/30/25 11:28	1
Endosulfan sulfate	ND		4.1	0.76	ug/Kg	☼	05/29/25 06:48	05/30/25 11:28	1
Endrin	ND		4.1	0.80	ug/Kg	☼	05/29/25 06:48	05/30/25 11:28	1
Endrin aldehyde	ND		4.1	1.0	ug/Kg	☼	05/29/25 06:48	05/30/25 11:28	1
Endrin ketone	ND		4.1	1.0	ug/Kg	☼	05/29/25 06:48	05/30/25 11:28	1
gamma-BHC (Lindane)	ND		4.1	0.74	ug/Kg	☼	05/29/25 06:48	05/30/25 11:28	1
trans-Chlordane	ND		4.1	1.3	ug/Kg	☼	05/29/25 06:48	05/30/25 11:28	1
Heptachlor	ND		4.1	0.88	ug/Kg	☼	05/29/25 06:48	05/30/25 11:28	1
Heptachlor epoxide	ND		4.1	1.0	ug/Kg	☼	05/29/25 06:48	05/30/25 11:28	1
Methoxychlor	ND		4.1	0.83	ug/Kg	☼	05/29/25 06:48	05/30/25 11:28	1
Toxaphene	ND		41	24	ug/Kg	☼	05/29/25 06:48	05/30/25 11:28	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-8 Native

Lab Sample ID: 480-229710-3

Date Collected: 05/27/25 10:55

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 81.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	72		45 - 120	05/29/25 06:48	05/30/25 11:28	1
DCB Decachlorobiphenyl	81		45 - 120	05/29/25 06:48	05/30/25 11:28	1
Tetrachloro-m-xylene	73		30 - 124	05/29/25 06:48	05/30/25 11:28	1
Tetrachloro-m-xylene	73		30 - 124	05/29/25 06:48	05/30/25 11:28	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.29	0.056	mg/Kg	✱	05/30/25 06:41	05/30/25 15:44	1
PCB-1221	ND		0.29	0.056	mg/Kg	✱	05/30/25 06:41	05/30/25 15:44	1
PCB-1232	ND		0.29	0.056	mg/Kg	✱	05/30/25 06:41	05/30/25 15:44	1
PCB-1242	ND		0.29	0.056	mg/Kg	✱	05/30/25 06:41	05/30/25 15:44	1
PCB-1248	ND		0.29	0.056	mg/Kg	✱	05/30/25 06:41	05/30/25 15:44	1
PCB-1254	ND		0.29	0.13	mg/Kg	✱	05/30/25 06:41	05/30/25 15:44	1
PCB-1260	ND		0.29	0.13	mg/Kg	✱	05/30/25 06:41	05/30/25 15:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	108		60 - 154	05/30/25 06:41	05/30/25 15:44	1
Tetrachloro-m-xylene	114		60 - 154	05/30/25 06:41	05/30/25 15:44	1
DCB Decachlorobiphenyl	109		65 - 174	05/30/25 06:41	05/30/25 15:44	1
DCB Decachlorobiphenyl	113		65 - 174	05/30/25 06:41	05/30/25 15:44	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.39	0.13	ng/g	✱	06/01/25 11:59	06/02/25 12:32	1
Perfluoropentanoic acid (PFPeA)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 12:32	1
Perfluorohexanoic acid (PFHxA)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 12:32	1
Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 12:32	1
Perfluorooctanoic acid (PFOA)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 12:32	1
Perfluorononanoic acid (PFNA)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 12:32	1
Perfluorodecanoic acid (PFDA)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 12:32	1
Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 12:32	1
Perfluorododecanoic acid (PFDoA)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 12:32	1
Perfluorotridecanoic acid (PFTriDA)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 12:32	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 12:32	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 12:32	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 12:32	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 12:32	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 12:32	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.20	0.11	ng/g	✱	06/01/25 11:59	06/02/25 12:32	1
Perfluorononanesulfonic acid (PFNS)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 12:32	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 12:32	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 12:32	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.39	0.098	ng/g	✱	06/01/25 11:59	06/02/25 12:32	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.39	0.13	ng/g	✱	06/01/25 11:59	06/02/25 12:32	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.39	0.13	ng/g	✱	06/01/25 11:59	06/02/25 12:32	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.089	ng/g	✱	06/01/25 11:59	06/02/25 12:32	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-8 Native

Lab Sample ID: 480-229710-3

Date Collected: 05/27/25 10:55

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 81.3

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.20	0.089	ng/g	☼	06/01/25 11:59	06/02/25 12:32	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.20	0.098	ng/g	☼	06/01/25 11:59	06/02/25 12:32	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.20	0.079	ng/g	☼	06/01/25 11:59	06/02/25 12:32	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.20	0.11	ng/g	☼	06/01/25 11:59	06/02/25 12:32	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		0.98	0.30	ng/g	☼	06/01/25 11:59	06/02/25 12:32	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		0.98	0.30	ng/g	☼	06/01/25 11:59	06/02/25 12:32	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.20	0.11	ng/g	☼	06/01/25 11:59	06/02/25 12:32	1
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND		0.20	0.059	ng/g	☼	06/01/25 11:59	06/02/25 12:32	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.20	0.069	ng/g	☼	06/01/25 11:59	06/02/25 12:32	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.20	0.049	ng/g	☼	06/01/25 11:59	06/02/25 12:32	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.20	0.069	ng/g	☼	06/01/25 11:59	06/02/25 12:32	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.20	0.089	ng/g	☼	06/01/25 11:59	06/02/25 12:32	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.20	0.079	ng/g	☼	06/01/25 11:59	06/02/25 12:32	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.20	0.049	ng/g	☼	06/01/25 11:59	06/02/25 12:32	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.39	0.20	ng/g	☼	06/01/25 11:59	06/02/25 12:32	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		0.98	0.49	ng/g	☼	06/01/25 11:59	06/02/25 12:32	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		0.98	0.39	ng/g	☼	06/01/25 11:59	06/02/25 12:32	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	108		8 - 130	06/01/25 11:59	06/02/25 12:32	1
13C5-PFPeA	110		35 - 130	06/01/25 11:59	06/02/25 12:32	1
13C5-PFHxA	110		40 - 130	06/01/25 11:59	06/02/25 12:32	1
13C4-PFHpA	98.8		40 - 130	06/01/25 11:59	06/02/25 12:32	1
13C8-PFOA	94.3		40 - 130	06/01/25 11:59	06/02/25 12:32	1
13C9-PFNA	90.2		40 - 130	06/01/25 11:59	06/02/25 12:32	1
13C6-PFDA	90.4		40 - 130	06/01/25 11:59	06/02/25 12:32	1
13C7-PFUnA	95.6		40 - 130	06/01/25 11:59	06/02/25 12:32	1
13C2-PFTeDA	74.8		20 - 130	06/01/25 11:59	06/02/25 12:32	1
13C3-PFBS	96.3		40 - 135	06/01/25 11:59	06/02/25 12:32	1
13C3-PFHxS	87.9		40 - 130	06/01/25 11:59	06/02/25 12:32	1
13C8-PFOS	85.6		40 - 130	06/01/25 11:59	06/02/25 12:32	1
13C8-PFOSA	88.0		40 - 130	06/01/25 11:59	06/02/25 12:32	1
d3-NMeFOSAA	85.1		40 - 135	06/01/25 11:59	06/02/25 12:32	1
d5-NEtFOSAA	146		40 - 150	06/01/25 11:59	06/02/25 12:32	1
13C2 4:2 FTS	101		40 - 165	06/01/25 11:59	06/02/25 12:32	1
13C2 6:2 FTS	112		40 - 215	06/01/25 11:59	06/02/25 12:32	1
13C2 8:2 FTS	94.6		40 - 275	06/01/25 11:59	06/02/25 12:32	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-8 Native

Lab Sample ID: 480-229710-3

Date Collected: 05/27/25 10:55

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 81.3

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3-HFPO-DA	103		40 - 130	06/01/25 11:59	06/02/25 12:32	1
D7-NMeFOSE	49.7		20 - 130	06/01/25 11:59	06/02/25 12:32	1
D9-NEtFOSE	38.8		15 - 130	06/01/25 11:59	06/02/25 12:32	1
d5-NEtPFOSA	61.4		10 - 130	06/01/25 11:59	06/02/25 12:32	1
d3-NMePFOSA	65.8		10 - 130	06/01/25 11:59	06/02/25 12:32	1
13C2 PFDaA	93.8		40 - 130	06/01/25 11:59	06/02/25 12:32	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	22600		11.7	10.1	mg/Kg	✱	05/28/25 15:39	05/29/25 19:20	1
Antimony	0.93	J	17.6	0.62	mg/Kg	✱	05/28/25 15:39	05/29/25 19:20	1
Arsenic	9.1		2.3	1.0	mg/Kg	✱	05/28/25 15:39	05/29/25 19:20	1
Barium	132		0.59	0.16	mg/Kg	✱	05/28/25 15:39	05/29/25 19:20	1
Beryllium	1.1	^5-	0.23	0.047	mg/Kg	✱	05/28/25 15:39	05/29/25 19:20	1
Cadmium	0.25		0.23	0.082	mg/Kg	✱	05/28/25 15:39	05/29/25 19:20	1
Calcium	3590	^5-	58.7	31.7	mg/Kg	✱	05/28/25 15:39	05/29/25 19:20	1
Chromium	26.4	^5-	0.59	0.42	mg/Kg	✱	05/28/25 15:39	05/29/25 19:20	1
Cobalt	29.3		0.59	0.12	mg/Kg	✱	05/28/25 15:39	05/29/25 19:20	1
Copper	28.4		1.2	0.67	mg/Kg	✱	05/28/25 15:39	05/29/25 19:20	1
Iron	34200		11.7	10	mg/Kg	✱	05/28/25 15:39	05/30/25 11:45	1
Lead	18.3		1.2	0.54	mg/Kg	✱	05/28/25 15:39	05/29/25 19:20	1
Magnesium	6170		23.5	10	mg/Kg	✱	05/28/25 15:39	05/29/25 19:20	1
Manganese	366		1.2	0.33	mg/Kg	✱	05/28/25 15:39	05/30/25 11:45	1
Nickel	37.8	^5-	5.9	0.29	mg/Kg	✱	05/28/25 15:39	05/29/25 19:20	1
Potassium	3390		35.2	28.5	mg/Kg	✱	05/28/25 15:39	05/29/25 19:20	1
Selenium	1.3	J	4.7	0.94	mg/Kg	✱	05/28/25 15:39	05/29/25 19:20	1
Silver	ND	^5-	0.70	0.23	mg/Kg	✱	05/28/25 15:39	05/29/25 19:20	1
Sodium	204		164	72.0	mg/Kg	✱	05/28/25 15:39	05/29/25 19:20	1
Thallium	ND		7.0	0.89	mg/Kg	✱	05/28/25 15:39	05/29/25 19:20	1
Vanadium	36.0	^5-	0.59	0.15	mg/Kg	✱	05/28/25 15:39	05/29/25 19:20	1
Zinc	80.6	^5-	2.3	1.2	mg/Kg	✱	05/28/25 15:39	05/29/25 19:20	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.026	0.0059	mg/Kg	✱	05/30/25 13:38	05/30/25 16:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		1.1	0.54	mg/Kg	✱	05/29/25 12:55	05/29/25 20:25	1

Client Sample ID: RI-BH-11 Fill

Lab Sample ID: 480-229710-7

Date Collected: 05/27/25 11:25

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 91.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.4	0.39	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
1,1,2,2-Tetrachloroethane	ND	vs	5.4	0.88	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.4	1.2	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
1,1,2-Trichloroethane	ND	vs	5.4	0.70	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
1,1-Dichloroethane	ND	vs	5.4	0.66	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-11 Fill

Lab Sample ID: 480-229710-7

Date Collected: 05/27/25 11:25

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 91.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND	vs	5.4	0.66	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
1,2,4-Trichlorobenzene	ND	vs	5.4	0.33	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.4	2.7	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
1,2-Dichlorobenzene	ND	vs	5.4	0.42	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
1,2-Dichloroethane	ND	vs	5.4	0.27	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
1,2-Dichloropropane	ND	vs	5.4	2.7	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
1,3-Dichlorobenzene	ND	vs	5.4	0.28	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
1,4-Dichlorobenzene	ND	vs	5.4	0.76	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
2-Butanone (MEK)	4.0	J vs	27	2.0	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
2-Hexanone	ND	vs	27	2.7	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
4-Methyl-2-pentanone (MIBK)	ND	vs	27	1.8	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
Acetone	36	vs	27	4.5	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
Benzene	ND	vs	5.4	0.26	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
Bromoform	ND	vs	5.4	2.7	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
Bromomethane	ND	vs	5.4	0.49	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
Carbon disulfide	ND	vs	5.4	2.7	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
Carbon tetrachloride	ND	vs	5.4	0.52	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
Chlorobenzene	ND	vs	5.4	0.71	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
Dibromochloromethane	ND	vs	5.4	0.69	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
Chloroethane	ND	vs	5.4	1.2	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
Chloroform	0.50	J vs	5.4	0.33	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
Chloromethane	ND	vs	5.4	0.33	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
cis-1,2-Dichloroethene	ND	vs	5.4	0.69	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
Cyclohexane	ND	vs	5.4	0.76	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
Bromodichloromethane	ND	vs	5.4	0.72	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
Dichlorodifluoromethane	ND	vs	5.4	0.45	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
Ethylbenzene	ND	vs	5.4	0.37	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
1,2-Dibromoethane	ND	vs	5.4	0.69	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
Isopropylbenzene	ND	vs	5.4	0.81	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
Methyl acetate	ND	vs	27	3.3	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
Methyl tert-butyl ether	ND	vs	5.4	0.53	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
Methylcyclohexane	ND	vs	5.4	0.82	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
Methylene Chloride	4.4	J B vs	5.4	2.5	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
Tetrachloroethene	ND	vs	5.4	0.72	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
Toluene	ND	vs	5.4	0.41	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
trans-1,2-Dichloroethene	ND	vs	5.4	0.56	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
trans-1,3-Dichloropropene	ND	vs	5.4	2.4	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
Trichloroethene	ND	vs	5.4	1.2	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
Trichlorofluoromethane	ND	vs	5.4	0.51	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
Vinyl chloride	ND	vs	5.4	0.66	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
Xylenes, Total	ND	vs	11	0.91	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
cis-1,3-Dichloropropene	ND	vs	5.4	0.78	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1
Styrene	ND	vs	5.4	0.27	ug/Kg	✱	05/28/25 18:17	05/29/25 02:02	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	✱		N/A	05/28/25 18:17	05/29/25 02:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		64 - 126	05/28/25 18:17	05/29/25 02:02	1
4-Bromofluorobenzene (Surr)	107		72 - 126	05/28/25 18:17	05/29/25 02:02	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-11 Fill

Lab Sample ID: 480-229710-7

Date Collected: 05/27/25 11:25

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 91.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		71 - 125	05/28/25 18:17	05/29/25 02:02	1
Dibromofluoromethane (Surr)	107		60 - 140	05/28/25 18:17	05/29/25 02:02	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		110	40	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1
2,4,5-Trichlorophenol	ND		180	37	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1
2,4,6-Trichlorophenol	ND		180	28	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1
2,4-Dichlorophenol	ND		180	36	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1
2,4-Dimethylphenol	ND		180	38	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1
2,4-Dinitrophenol	ND		1800	35	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1
2,4-Dinitrotoluene	ND		180	25	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1
2,6-Dinitrotoluene	ND		180	26	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1
2-Chloronaphthalene	ND		180	34	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1
2-Chlorophenol	ND		180	29	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1
2-Methylnaphthalene	110	J	180	29	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1
2-Methylphenol	ND		180	30	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1
2-Nitroaniline	ND		360	31	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1
2-Nitrophenol	ND		180	21	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1
3,3'-Dichlorobenzidine	ND		360	53	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1
3-Nitroaniline	ND		360	26	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1
4,6-Dinitro-2-methylphenol	ND		360	40	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1
4-Bromophenyl phenyl ether	ND		180	31	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1
4-Chloro-3-methylphenol	ND		180	37	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1
4-Chloroaniline	ND		180	26	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1
4-Chlorophenyl phenyl ether	ND		180	38	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1
4-Methylphenol	ND		360	33	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1
4-Nitroaniline	ND		360	27	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1
4-Nitrophenol	ND		360	50	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1
Acenaphthene	ND		180	34	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1
Acenaphthylene	44	J	180	35	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1
Acetophenone	ND		180	32	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1
Anthracene	89	J	180	34	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1
Atrazine	ND		180	62	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1
Benzaldehyde	ND		180	140	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1
Benzo[a]anthracene	310		180	25	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1
Benzo[a]pyrene	280		180	31	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1
Benzo[b]fluoranthene	370		180	24	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1
Benzo[g,h,i]perylene	210		180	32	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1
Benzo[k]fluoranthene	220		180	41	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1
Biphenyl	ND		180	34	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1
bis (2-chloroisopropyl) ether	ND		180	37	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1
Bis(2-chloroethoxy)methane	ND		180	35	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1
Bis(2-chloroethyl)ether	ND		180	34	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1
Bis(2-ethylhexyl) phthalate	ND		180	40	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1
Butyl benzyl phthalate	ND		180	34	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1
Caprolactam	ND		180	42	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1
Carbazole	ND		180	36	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1
Chrysene	410		180	44	ug/Kg	✱	05/29/25 13:50	05/30/25 14:28	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-11 Fill

Lab Sample ID: 480-229710-7

Date Collected: 05/27/25 11:25

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 91.2

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	61	J	180	37	ug/Kg	☼	05/29/25 13:50	05/30/25 14:28	1
Dibenzofuran	ND		180	32	ug/Kg	☼	05/29/25 13:50	05/30/25 14:28	1
Diethyl phthalate	ND		180	33	ug/Kg	☼	05/29/25 13:50	05/30/25 14:28	1
Dimethyl phthalate	ND		180	35	ug/Kg	☼	05/29/25 13:50	05/30/25 14:28	1
Di-n-butyl phthalate	ND		180	41	ug/Kg	☼	05/29/25 13:50	05/30/25 14:28	1
Di-n-octyl phthalate	ND		180	35	ug/Kg	☼	05/29/25 13:50	05/30/25 14:28	1
Fluoranthene	760		180	33	ug/Kg	☼	05/29/25 13:50	05/30/25 14:28	1
Fluorene	ND		180	33	ug/Kg	☼	05/29/25 13:50	05/30/25 14:28	1
Hexachlorobenzene	ND		180	35	ug/Kg	☼	05/29/25 13:50	05/30/25 14:28	1
Hexachlorobutadiene	ND		180	27	ug/Kg	☼	05/29/25 13:50	05/30/25 14:28	1
Hexachlorocyclopentadiene	ND		360	80	ug/Kg	☼	05/29/25 13:50	05/30/25 14:28	1
Hexachloroethane	ND		180	33	ug/Kg	☼	05/29/25 13:50	05/30/25 14:28	1
Indeno[1,2,3-cd]pyrene	180		180	27	ug/Kg	☼	05/29/25 13:50	05/30/25 14:28	1
Isophorone	ND		180	37	ug/Kg	☼	05/29/25 13:50	05/30/25 14:28	1
Naphthalene	ND		180	30	ug/Kg	☼	05/29/25 13:50	05/30/25 14:28	1
Nitrobenzene	ND		180	31	ug/Kg	☼	05/29/25 13:50	05/30/25 14:28	1
N-Nitrosodi-n-propylamine	ND		180	41	ug/Kg	☼	05/29/25 13:50	05/30/25 14:28	1
N-Nitrosodiphenylamine	ND		180	31	ug/Kg	☼	05/29/25 13:50	05/30/25 14:28	1
Pentachlorophenol	ND		360	58	ug/Kg	☼	05/29/25 13:50	05/30/25 14:28	1
Phenanthrene	380		180	34	ug/Kg	☼	05/29/25 13:50	05/30/25 14:28	1
Phenol	ND		180	33	ug/Kg	☼	05/29/25 13:50	05/30/25 14:28	1
Pyrene	570		180	35	ug/Kg	☼	05/29/25 13:50	05/30/25 14:28	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	47000	T J	ug/Kg	☼	2.00	N/A	05/29/25 13:50	05/30/25 14:28	1
Unknown	7200	T J	ug/Kg	☼	3.47	N/A	05/29/25 13:50	05/30/25 14:28	1
Unknown	320	T J	ug/Kg	☼	4.37	N/A	05/29/25 13:50	05/30/25 14:28	1
Unknown	390	T J	ug/Kg	☼	5.54	N/A	05/29/25 13:50	05/30/25 14:28	1
Undecane	450	T J N	ug/Kg	☼	6.48	1120-21-4	05/29/25 13:50	05/30/25 14:28	1
Unknown	590	T J	ug/Kg	☼	7.28	N/A	05/29/25 13:50	05/30/25 14:28	1
Unknown	320	T J	ug/Kg	☼	7.81	N/A	05/29/25 13:50	05/30/25 14:28	1
Tridecane	770	T J N	ug/Kg	☼	8.00	629-50-5	05/29/25 13:50	05/30/25 14:28	1
Tetradecane	580	T J N	ug/Kg	☼	8.67	629-59-4	05/29/25 13:50	05/30/25 14:28	1
Unknown	320	T J	ug/Kg	☼	9.05	N/A	05/29/25 13:50	05/30/25 14:28	1
Eicosane	420	T J N	ug/Kg	☼	9.87	112-95-8	05/29/25 13:50	05/30/25 14:28	1
Hexadecane, 2,6,10,14-tetramethyl-	370	T J N	ug/Kg	☼	10.11	638-36-8	05/29/25 13:50	05/30/25 14:28	1
Eicosane, 10-methyl-	760	T J N	ug/Kg	☼	10.39	54833-23-7	05/29/25 13:50	05/30/25 14:28	1
Unknown	390	T J	ug/Kg	☼	10.85	N/A	05/29/25 13:50	05/30/25 14:28	1
Heptadecane	330	T J N	ug/Kg	☼	11.26	629-78-7	05/29/25 13:50	05/30/25 14:28	1
Unknown	380	T J	ug/Kg	☼	11.99	N/A	05/29/25 13:50	05/30/25 14:28	1
Unknown	330	T J	ug/Kg	☼	13.19	N/A	05/29/25 13:50	05/30/25 14:28	1
Unknown	480	T J	ug/Kg	☼	13.46	N/A	05/29/25 13:50	05/30/25 14:28	1
Unknown	340	T J	ug/Kg	☼	13.72	N/A	05/29/25 13:50	05/30/25 14:28	1
Unknown	390	T J	ug/Kg	☼	14.22	N/A	05/29/25 13:50	05/30/25 14:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	61		10 - 140	05/29/25 13:50	05/30/25 14:28	1
2-Fluorobiphenyl (Surr)	62		29 - 120	05/29/25 13:50	05/30/25 14:28	1
2-Fluorophenol (Surr)	63		18 - 120	05/29/25 13:50	05/30/25 14:28	1
Nitrobenzene-d5 (Surr)	62		22 - 120	05/29/25 13:50	05/30/25 14:28	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-11 Fill

Lab Sample ID: 480-229710-7

Date Collected: 05/27/25 11:25

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 91.2

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5 (Surr)	61		23 - 120	05/29/25 13:50	05/30/25 14:28	1
p-Terphenyl-d14 (Surr)	64		28 - 124	05/29/25 13:50	05/30/25 14:28	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		3.5	0.67	ug/Kg	✱	05/29/25 06:48	05/30/25 11:47	1
4,4'-DDE	0.74	J	3.5	0.73	ug/Kg	✱	05/29/25 06:48	05/30/25 11:47	1
4,4'-DDT	2.8	J	3.5	0.81	ug/Kg	✱	05/29/25 06:48	05/30/25 11:47	1
beta-BHC	ND		3.5	0.62	ug/Kg	✱	05/29/25 06:48	05/30/25 11:47	1
cis-Chlordane	ND		3.5	1.7	ug/Kg	✱	05/29/25 06:48	05/30/25 11:47	1
alpha-BHC	ND		3.5	0.62	ug/Kg	✱	05/29/25 06:48	05/30/25 11:47	1
Aldrin	ND		3.5	0.85	ug/Kg	✱	05/29/25 06:48	05/30/25 11:47	1
delta-BHC	ND		3.5	0.64	ug/Kg	✱	05/29/25 06:48	05/30/25 11:47	1
Dieldrin	ND		3.5	0.83	ug/Kg	✱	05/29/25 06:48	05/30/25 11:47	1
Endosulfan I	ND		3.5	0.67	ug/Kg	✱	05/29/25 06:48	05/30/25 11:47	1
Endosulfan II	ND		3.5	0.62	ug/Kg	✱	05/29/25 06:48	05/30/25 11:47	1
Endosulfan sulfate	ND		3.5	0.65	ug/Kg	✱	05/29/25 06:48	05/30/25 11:47	1
Endrin	ND		3.5	0.69	ug/Kg	✱	05/29/25 06:48	05/30/25 11:47	1
Endrin aldehyde	ND		3.5	0.89	ug/Kg	✱	05/29/25 06:48	05/30/25 11:47	1
Endrin ketone	1.5	J	3.5	0.85	ug/Kg	✱	05/29/25 06:48	05/30/25 11:47	1
gamma-BHC (Lindane)	ND		3.5	0.64	ug/Kg	✱	05/29/25 06:48	05/30/25 11:47	1
trans-Chlordane	ND		3.5	1.1	ug/Kg	✱	05/29/25 06:48	05/30/25 11:47	1
Heptachlor	ND		3.5	0.75	ug/Kg	✱	05/29/25 06:48	05/30/25 11:47	1
Heptachlor epoxide	ND		3.5	0.89	ug/Kg	✱	05/29/25 06:48	05/30/25 11:47	1
Methoxychlor	ND		3.5	0.71	ug/Kg	✱	05/29/25 06:48	05/30/25 11:47	1
Toxaphene	ND		35	20	ug/Kg	✱	05/29/25 06:48	05/30/25 11:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	70		45 - 120	05/29/25 06:48	05/30/25 11:47	1
DCB Decachlorobiphenyl	84		45 - 120	05/29/25 06:48	05/30/25 11:47	1
Tetrachloro-m-xylene	63		30 - 124	05/29/25 06:48	05/30/25 11:47	1
Tetrachloro-m-xylene	62		30 - 124	05/29/25 06:48	05/30/25 11:47	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.19	0.036	mg/Kg	✱	05/30/25 06:41	05/30/25 16:02	1
PCB-1221	ND		0.19	0.036	mg/Kg	✱	05/30/25 06:41	05/30/25 16:02	1
PCB-1232	ND		0.19	0.036	mg/Kg	✱	05/30/25 06:41	05/30/25 16:02	1
PCB-1242	ND		0.19	0.036	mg/Kg	✱	05/30/25 06:41	05/30/25 16:02	1
PCB-1248	ND		0.19	0.036	mg/Kg	✱	05/30/25 06:41	05/30/25 16:02	1
PCB-1254	ND		0.19	0.087	mg/Kg	✱	05/30/25 06:41	05/30/25 16:02	1
PCB-1260	ND		0.19	0.087	mg/Kg	✱	05/30/25 06:41	05/30/25 16:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	99		60 - 154	05/30/25 06:41	05/30/25 16:02	1
Tetrachloro-m-xylene	103		60 - 154	05/30/25 06:41	05/30/25 16:02	1
DCB Decachlorobiphenyl	95		65 - 174	05/30/25 06:41	05/30/25 16:02	1
DCB Decachlorobiphenyl	102		65 - 174	05/30/25 06:41	05/30/25 16:02	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-11 Fill

Lab Sample ID: 480-229710-7

Date Collected: 05/27/25 11:25

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 91.2

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.39	0.13	ng/g	✱	06/01/25 11:59	06/02/25 12:45	1
Perfluoropentanoic acid (PFPeA)	ND		0.19	0.049	ng/g	✱	06/01/25 11:59	06/02/25 12:45	1
Perfluorohexanoic acid (PFHxA)	ND		0.19	0.058	ng/g	✱	06/01/25 11:59	06/02/25 12:45	1
Perfluoroheptanoic acid (PFHpA)	ND		0.19	0.068	ng/g	✱	06/01/25 11:59	06/02/25 12:45	1
Perfluorooctanoic acid (PFOA)	ND		0.19	0.058	ng/g	✱	06/01/25 11:59	06/02/25 12:45	1
Perfluorononanoic acid (PFNA)	ND		0.19	0.058	ng/g	✱	06/01/25 11:59	06/02/25 12:45	1
Perfluorodecanoic acid (PFDA)	ND		0.19	0.049	ng/g	✱	06/01/25 11:59	06/02/25 12:45	1
Perfluoroundecanoic acid (PFUnA)	ND		0.19	0.049	ng/g	✱	06/01/25 11:59	06/02/25 12:45	1
Perfluorododecanoic acid (PFDoA)	ND		0.19	0.049	ng/g	✱	06/01/25 11:59	06/02/25 12:45	1
Perfluorotridecanoic acid (PFTriDA)	ND		0.19	0.068	ng/g	✱	06/01/25 11:59	06/02/25 12:45	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.19	0.068	ng/g	✱	06/01/25 11:59	06/02/25 12:45	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.19	0.068	ng/g	✱	06/01/25 11:59	06/02/25 12:45	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.19	0.058	ng/g	✱	06/01/25 11:59	06/02/25 12:45	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.19	0.049	ng/g	✱	06/01/25 11:59	06/02/25 12:45	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.19	0.068	ng/g	✱	06/01/25 11:59	06/02/25 12:45	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.19	0.11	ng/g	✱	06/01/25 11:59	06/02/25 12:45	1
Perfluorononanesulfonic acid (PFNS)	ND		0.19	0.068	ng/g	✱	06/01/25 11:59	06/02/25 12:45	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.19	0.049	ng/g	✱	06/01/25 11:59	06/02/25 12:45	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.19	0.058	ng/g	✱	06/01/25 11:59	06/02/25 12:45	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.39	0.097	ng/g	✱	06/01/25 11:59	06/02/25 12:45	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.39	0.13	ng/g	✱	06/01/25 11:59	06/02/25 12:45	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.39	0.13	ng/g	✱	06/01/25 11:59	06/02/25 12:45	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.19	0.087	ng/g	✱	06/01/25 11:59	06/02/25 12:45	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.19	0.087	ng/g	✱	06/01/25 11:59	06/02/25 12:45	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.19	0.097	ng/g	✱	06/01/25 11:59	06/02/25 12:45	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.19	0.078	ng/g	✱	06/01/25 11:59	06/02/25 12:45	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.19	0.11	ng/g	✱	06/01/25 11:59	06/02/25 12:45	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		0.97	0.29	ng/g	✱	06/01/25 11:59	06/02/25 12:45	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		0.97	0.29	ng/g	✱	06/01/25 11:59	06/02/25 12:45	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.19	0.11	ng/g	✱	06/01/25 11:59	06/02/25 12:45	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.19	0.058	ng/g	✱	06/01/25 11:59	06/02/25 12:45	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.19	0.068	ng/g	✱	06/01/25 11:59	06/02/25 12:45	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.19	0.049	ng/g	✱	06/01/25 11:59	06/02/25 12:45	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.19	0.068	ng/g	✱	06/01/25 11:59	06/02/25 12:45	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	ND		0.19	0.087	ng/g	✱	06/01/25 11:59	06/02/25 12:45	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-11 Fill

Lab Sample ID: 480-229710-7

Date Collected: 05/27/25 11:25

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 91.2

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.19	0.078	ng/g	☼	06/01/25 11:59	06/02/25 12:45	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.19	0.049	ng/g	☼	06/01/25 11:59	06/02/25 12:45	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.39	0.19	ng/g	☼	06/01/25 11:59	06/02/25 12:45	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		0.97	0.49	ng/g	☼	06/01/25 11:59	06/02/25 12:45	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		0.97	0.39	ng/g	☼	06/01/25 11:59	06/02/25 12:45	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4-PFBA	89.4		8 - 130				06/01/25 11:59	06/02/25 12:45	1
13C5-PFPeA	90.6		35 - 130				06/01/25 11:59	06/02/25 12:45	1
13C5-PFHxA	93.9		40 - 130				06/01/25 11:59	06/02/25 12:45	1
13C4-PFHpA	94.3		40 - 130				06/01/25 11:59	06/02/25 12:45	1
13C8-PFOA	91.4		40 - 130				06/01/25 11:59	06/02/25 12:45	1
13C9-PFNA	90.3		40 - 130				06/01/25 11:59	06/02/25 12:45	1
13C6-PFDA	85.3		40 - 130				06/01/25 11:59	06/02/25 12:45	1
13C7-PFUnA	94.2		40 - 130				06/01/25 11:59	06/02/25 12:45	1
13C2-PFTeDA	74.8		20 - 130				06/01/25 11:59	06/02/25 12:45	1
13C3-PFBS	74.0		40 - 135				06/01/25 11:59	06/02/25 12:45	1
13C3-PFHxS	82.0		40 - 130				06/01/25 11:59	06/02/25 12:45	1
13C8-PFOS	77.2		40 - 130				06/01/25 11:59	06/02/25 12:45	1
13C8-PFOSA	89.1		40 - 130				06/01/25 11:59	06/02/25 12:45	1
d3-NMeFOSAA	87.0		40 - 135				06/01/25 11:59	06/02/25 12:45	1
d5-NEtFOSAA	129		40 - 150				06/01/25 11:59	06/02/25 12:45	1
13C2 4:2 FTS	113		40 - 165				06/01/25 11:59	06/02/25 12:45	1
13C2 6:2 FTS	104		40 - 215				06/01/25 11:59	06/02/25 12:45	1
13C2 8:2 FTS	102		40 - 275				06/01/25 11:59	06/02/25 12:45	1
13C3-HFPO-DA	87.4		40 - 130				06/01/25 11:59	06/02/25 12:45	1
D7-NMeFOSE	51.7		20 - 130				06/01/25 11:59	06/02/25 12:45	1
D9-NEtFOSE	40.9		15 - 130				06/01/25 11:59	06/02/25 12:45	1
d5-NEtPFOSA	62.1		10 - 130				06/01/25 11:59	06/02/25 12:45	1
d3-NMePFOSA	66.7		10 - 130				06/01/25 11:59	06/02/25 12:45	1
13C2 PFDaA	89.7		40 - 130				06/01/25 11:59	06/02/25 12:45	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11600		10.9	9.4	mg/Kg	☼	05/28/25 15:39	05/29/25 19:22	1
Antimony	0.80	J	16.3	0.58	mg/Kg	☼	05/28/25 15:39	05/29/25 19:22	1
Arsenic	11.5		2.2	0.96	mg/Kg	☼	05/28/25 15:39	05/29/25 19:22	1
Barium	95.7		0.54	0.15	mg/Kg	☼	05/28/25 15:39	05/29/25 19:22	1
Beryllium	0.80	^5-	0.22	0.044	mg/Kg	☼	05/28/25 15:39	05/29/25 19:22	1
Cadmium	0.26		0.22	0.076	mg/Kg	☼	05/28/25 15:39	05/29/25 19:22	1
Calcium	37400		54.4	29.4	mg/Kg	☼	05/28/25 15:39	05/30/25 11:47	1
Chromium	17.0	^5-	0.54	0.39	mg/Kg	☼	05/28/25 15:39	05/29/25 19:22	1
Cobalt	8.5		0.54	0.11	mg/Kg	☼	05/28/25 15:39	05/29/25 19:22	1
Copper	29.3		1.1	0.62	mg/Kg	☼	05/28/25 15:39	05/29/25 19:22	1
Iron	28100		10.9	9.2	mg/Kg	☼	05/28/25 15:39	05/30/25 11:47	1
Lead	67.5		1.1	0.50	mg/Kg	☼	05/28/25 15:39	05/29/25 19:22	1
Magnesium	5190		21.8	9.2	mg/Kg	☼	05/28/25 15:39	05/29/25 19:22	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-11 Fill

Lab Sample ID: 480-229710-7

Date Collected: 05/27/25 11:25

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 91.2

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	615		1.1	0.30	mg/Kg	☆	05/28/25 15:39	05/30/25 11:47	1
Nickel	19.8	^5-	5.4	0.27	mg/Kg	☆	05/28/25 15:39	05/29/25 19:22	1
Potassium	1900		32.6	26.4	mg/Kg	☆	05/28/25 15:39	05/29/25 19:22	1
Selenium	ND		4.4	0.87	mg/Kg	☆	05/28/25 15:39	05/29/25 19:22	1
Silver	ND	^5-	0.65	0.22	mg/Kg	☆	05/28/25 15:39	05/29/25 19:22	1
Sodium	281		152	66.7	mg/Kg	☆	05/28/25 15:39	05/29/25 19:22	1
Thallium	ND		6.5	0.83	mg/Kg	☆	05/28/25 15:39	05/29/25 19:22	1
Vanadium	19.6	^5-	0.54	0.14	mg/Kg	☆	05/28/25 15:39	05/29/25 19:22	1
Zinc	73.8	^5-	2.2	1.1	mg/Kg	☆	05/28/25 15:39	05/29/25 19:22	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.022	0.0051	mg/Kg	☆	05/30/25 13:38	05/30/25 16:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		1.0	0.49	mg/Kg	☆	05/29/25 12:55	05/29/25 20:28	1

Client Sample ID: RI-BH-11 Native

Lab Sample ID: 480-229710-8

Date Collected: 05/27/25 11:30

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 78.8

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	6.2	0.45	ug/Kg	☆	05/28/25 18:17	05/29/25 02:26	1
1,1,2,2-Tetrachloroethane	ND	vs	6.2	1.0	ug/Kg	☆	05/28/25 18:17	05/29/25 02:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.2	1.4	ug/Kg	☆	05/28/25 18:17	05/29/25 02:26	1
1,1,2-Trichloroethane	ND	vs	6.2	0.80	ug/Kg	☆	05/28/25 18:17	05/29/25 02:26	1
1,1-Dichloroethane	ND	vs	6.2	0.75	ug/Kg	☆	05/28/25 18:17	05/29/25 02:26	1
1,1-Dichloroethene	ND	vs	6.2	0.75	ug/Kg	☆	05/28/25 18:17	05/29/25 02:26	1
1,2,4-Trichlorobenzene	ND	vs	6.2	0.37	ug/Kg	☆	05/28/25 18:17	05/29/25 02:26	1
1,2-Dibromo-3-Chloropropane	ND	vs	6.2	3.1	ug/Kg	☆	05/28/25 18:17	05/29/25 02:26	1
1,2-Dichlorobenzene	ND	vs	6.2	0.48	ug/Kg	☆	05/28/25 18:17	05/29/25 02:26	1
1,2-Dichloroethane	ND	vs	6.2	0.31	ug/Kg	☆	05/28/25 18:17	05/29/25 02:26	1
1,2-Dichloropropane	ND	vs	6.2	3.1	ug/Kg	☆	05/28/25 18:17	05/29/25 02:26	1
1,3-Dichlorobenzene	ND	vs	6.2	0.32	ug/Kg	☆	05/28/25 18:17	05/29/25 02:26	1
1,4-Dichlorobenzene	ND	vs	6.2	0.86	ug/Kg	☆	05/28/25 18:17	05/29/25 02:26	1
2-Butanone (MEK)	ND	vs	31	2.3	ug/Kg	☆	05/28/25 18:17	05/29/25 02:26	1
2-Hexanone	ND	vs	31	3.1	ug/Kg	☆	05/28/25 18:17	05/29/25 02:26	1
4-Methyl-2-pentanone (MIBK)	ND	vs	31	2.0	ug/Kg	☆	05/28/25 18:17	05/29/25 02:26	1
Acetone	9.1	J vs	31	5.2	ug/Kg	☆	05/28/25 18:17	05/29/25 02:26	1
Benzene	ND	vs	6.2	0.30	ug/Kg	☆	05/28/25 18:17	05/29/25 02:26	1
Bromoform	ND	vs	6.2	3.1	ug/Kg	☆	05/28/25 18:17	05/29/25 02:26	1
Bromomethane	ND	vs	6.2	0.55	ug/Kg	☆	05/28/25 18:17	05/29/25 02:26	1
Carbon disulfide	ND	vs	6.2	3.1	ug/Kg	☆	05/28/25 18:17	05/29/25 02:26	1
Carbon tetrachloride	ND	vs	6.2	0.60	ug/Kg	☆	05/28/25 18:17	05/29/25 02:26	1
Chlorobenzene	ND	vs	6.2	0.81	ug/Kg	☆	05/28/25 18:17	05/29/25 02:26	1
Dibromochloromethane	ND	vs	6.2	0.79	ug/Kg	☆	05/28/25 18:17	05/29/25 02:26	1
Chloroethane	ND	vs	6.2	1.4	ug/Kg	☆	05/28/25 18:17	05/29/25 02:26	1
Chloroform	0.55	J vs	6.2	0.38	ug/Kg	☆	05/28/25 18:17	05/29/25 02:26	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-11 Native

Lab Sample ID: 480-229710-8

Date Collected: 05/27/25 11:30

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 78.8

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	vs	6.2	0.37	ug/Kg	✱	05/28/25 18:17	05/29/25 02:26	1
cis-1,2-Dichloroethene	ND	vs	6.2	0.79	ug/Kg	✱	05/28/25 18:17	05/29/25 02:26	1
Cyclohexane	ND	vs	6.2	0.86	ug/Kg	✱	05/28/25 18:17	05/29/25 02:26	1
Bromodichloromethane	ND	vs	6.2	0.83	ug/Kg	✱	05/28/25 18:17	05/29/25 02:26	1
Dichlorodifluoromethane	ND	vs	6.2	0.51	ug/Kg	✱	05/28/25 18:17	05/29/25 02:26	1
Ethylbenzene	ND	vs	6.2	0.42	ug/Kg	✱	05/28/25 18:17	05/29/25 02:26	1
1,2-Dibromoethane	ND	vs	6.2	0.79	ug/Kg	✱	05/28/25 18:17	05/29/25 02:26	1
Isopropylbenzene	ND	vs	6.2	0.93	ug/Kg	✱	05/28/25 18:17	05/29/25 02:26	1
Methyl acetate	ND	vs	31	3.7	ug/Kg	✱	05/28/25 18:17	05/29/25 02:26	1
Methyl tert-butyl ether	ND	vs	6.2	0.60	ug/Kg	✱	05/28/25 18:17	05/29/25 02:26	1
Methylcyclohexane	ND	vs	6.2	0.94	ug/Kg	✱	05/28/25 18:17	05/29/25 02:26	1
Methylene Chloride	8.7	B vs	6.2	2.8	ug/Kg	✱	05/28/25 18:17	05/29/25 02:26	1
Tetrachloroethene	ND	vs	6.2	0.83	ug/Kg	✱	05/28/25 18:17	05/29/25 02:26	1
Toluene	ND	vs	6.2	0.47	ug/Kg	✱	05/28/25 18:17	05/29/25 02:26	1
trans-1,2-Dichloroethene	ND	vs	6.2	0.64	ug/Kg	✱	05/28/25 18:17	05/29/25 02:26	1
trans-1,3-Dichloropropene	ND	vs	6.2	2.7	ug/Kg	✱	05/28/25 18:17	05/29/25 02:26	1
Trichloroethene	ND	vs	6.2	1.4	ug/Kg	✱	05/28/25 18:17	05/29/25 02:26	1
Trichlorofluoromethane	ND	vs	6.2	0.58	ug/Kg	✱	05/28/25 18:17	05/29/25 02:26	1
Vinyl chloride	ND	vs	6.2	0.75	ug/Kg	✱	05/28/25 18:17	05/29/25 02:26	1
Xylenes, Total	ND	vs	12	1.0	ug/Kg	✱	05/28/25 18:17	05/29/25 02:26	1
cis-1,3-Dichloropropene	ND	vs	6.2	0.89	ug/Kg	✱	05/28/25 18:17	05/29/25 02:26	1
Styrene	ND	vs	6.2	0.31	ug/Kg	✱	05/28/25 18:17	05/29/25 02:26	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	✱		N/A	05/28/25 18:17	05/29/25 02:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		64 - 126	05/28/25 18:17	05/29/25 02:26	1
4-Bromofluorobenzene (Surr)	105		72 - 126	05/28/25 18:17	05/29/25 02:26	1
Toluene-d8 (Surr)	94		71 - 125	05/28/25 18:17	05/29/25 02:26	1
Dibromofluoromethane (Surr)	105		60 - 140	05/28/25 18:17	05/29/25 02:26	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		130	47	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
2,4,5-Trichlorophenol	ND		210	43	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
2,4,6-Trichlorophenol	ND		210	32	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
2,4-Dichlorophenol	ND		210	42	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
2,4-Dimethylphenol	ND		210	45	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
2,4-Dinitrophenol	ND		2100	41	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
2,4-Dinitrotoluene	ND		210	29	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
2,6-Dinitrotoluene	ND		210	30	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
2-Chloronaphthalene	ND		210	40	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
2-Chlorophenol	ND		210	33	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
2-Methylnaphthalene	ND		210	34	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
2-Methylphenol	ND		210	35	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
2-Nitroaniline	ND		420	36	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
2-Nitrophenol	ND		210	24	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
3,3'-Dichlorobenzidine	ND		420	62	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
3-Nitroaniline	ND		420	30	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-11 Native

Lab Sample ID: 480-229710-8

Date Collected: 05/27/25 11:30

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 78.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		420	47	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
4-Bromophenyl phenyl ether	ND		210	36	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
4-Chloro-3-methylphenol	ND		210	44	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
4-Chloroaniline	ND		210	31	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
4-Chlorophenyl phenyl ether	ND		210	45	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
4-Methylphenol	ND		420	38	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
4-Nitroaniline	ND		420	31	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
4-Nitrophenol	ND		420	58	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
Acenaphthene	ND		210	40	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
Acenaphthylene	ND		210	41	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
Acetophenone	ND		210	38	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
Anthracene	ND		210	39	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
Atrazine	ND		210	72	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
Benzaldehyde	ND		210	160	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
Benzo[a]anthracene	ND		210	29	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
Benzo[a]pyrene	ND		210	36	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
Benzo[b]fluoranthene	ND		210	29	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
Benzo[g,h,i]perylene	ND		210	37	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
Benzo[k]fluoranthene	ND		210	48	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
Biphenyl	ND		210	40	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
bis (2-chloroisopropyl) ether	ND		210	44	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
Bis(2-chloroethoxy)methane	ND		210	41	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
Bis(2-chloroethyl)ether	ND		210	40	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
Bis(2-ethylhexyl) phthalate	ND		210	46	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
Butyl benzyl phthalate	ND		210	39	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
Caprolactam	ND		210	49	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
Carbazole	ND		210	42	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
Chrysene	ND		210	51	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
Dibenz(a,h)anthracene	ND		210	43	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
Dibenzofuran	ND		210	38	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
Diethyl phthalate	ND		210	38	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
Dimethyl phthalate	ND		210	41	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
Di-n-butyl phthalate	ND		210	48	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
Di-n-octyl phthalate	ND		210	41	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
Fluoranthene	ND		210	39	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
Fluorene	ND		210	39	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
Hexachlorobenzene	ND		210	41	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
Hexachlorobutadiene	ND		210	32	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
Hexachlorocyclopentadiene	ND		420	93	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
Hexachloroethane	ND		210	39	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
Indeno[1,2,3-cd]pyrene	ND		210	32	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
Isophorone	ND		210	44	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
Naphthalene	ND		210	35	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
Nitrobenzene	ND		210	36	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
N-Nitrosodi-n-propylamine	ND		210	48	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
N-Nitrosodiphenylamine	ND		210	36	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
Pentachlorophenol	ND		420	68	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
Phenanthrene	ND		210	40	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1
Phenol	ND		210	39	ug/Kg	✱	05/29/25 13:50	05/30/25 14:53	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-11 Native

Lab Sample ID: 480-229710-8

Date Collected: 05/27/25 11:30

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 78.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		210	40	ug/Kg	☼	05/29/25 13:50	05/30/25 14:53	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	52000	T J	ug/Kg	☼	2.00	N/A	05/29/25 13:50	05/30/25 14:53	1
Unknown	4700	T J	ug/Kg	☼	3.47	N/A	05/29/25 13:50	05/30/25 14:53	1
Unknown	490	T J	ug/Kg	☼	10.39	N/A	05/29/25 13:50	05/30/25 14:53	1
Docosane	350	T J N	ug/Kg	☼	11.64	629-97-0	05/29/25 13:50	05/30/25 14:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	80		10 - 140	05/29/25 13:50	05/30/25 14:53	1
2-Fluorobiphenyl (Surr)	84		29 - 120	05/29/25 13:50	05/30/25 14:53	1
2-Fluorophenol (Surr)	79		18 - 120	05/29/25 13:50	05/30/25 14:53	1
Nitrobenzene-d5 (Surr)	83		22 - 120	05/29/25 13:50	05/30/25 14:53	1
Phenol-d5 (Surr)	81		23 - 120	05/29/25 13:50	05/30/25 14:53	1
p-Terphenyl-d14 (Surr)	89		28 - 124	05/29/25 13:50	05/30/25 14:53	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.2	0.82	ug/Kg	☼	05/29/25 06:48	05/30/25 12:07	1
4,4'-DDE	ND		4.2	0.89	ug/Kg	☼	05/29/25 06:48	05/30/25 12:07	1
4,4'-DDT	ND		4.2	0.99	ug/Kg	☼	05/29/25 06:48	05/30/25 12:07	1
beta-BHC	ND		4.2	0.76	ug/Kg	☼	05/29/25 06:48	05/30/25 12:07	1
cis-Chlordane	ND		4.2	2.1	ug/Kg	☼	05/29/25 06:48	05/30/25 12:07	1
alpha-BHC	ND		4.2	0.76	ug/Kg	☼	05/29/25 06:48	05/30/25 12:07	1
Aldrin	ND		4.2	1.0	ug/Kg	☼	05/29/25 06:48	05/30/25 12:07	1
delta-BHC	ND		4.2	0.79	ug/Kg	☼	05/29/25 06:48	05/30/25 12:07	1
Dieldrin	ND		4.2	1.0	ug/Kg	☼	05/29/25 06:48	05/30/25 12:07	1
Endosulfan I	ND		4.2	0.81	ug/Kg	☼	05/29/25 06:48	05/30/25 12:07	1
Endosulfan II	ND		4.2	0.76	ug/Kg	☼	05/29/25 06:48	05/30/25 12:07	1
Endosulfan sulfate	ND		4.2	0.79	ug/Kg	☼	05/29/25 06:48	05/30/25 12:07	1
Endrin	ND		4.2	0.84	ug/Kg	☼	05/29/25 06:48	05/30/25 12:07	1
Endrin aldehyde	ND		4.2	1.1	ug/Kg	☼	05/29/25 06:48	05/30/25 12:07	1
Endrin ketone	ND		4.2	1.0	ug/Kg	☼	05/29/25 06:48	05/30/25 12:07	1
gamma-BHC (Lindane)	ND		4.2	0.78	ug/Kg	☼	05/29/25 06:48	05/30/25 12:07	1
trans-Chlordane	ND		4.2	1.3	ug/Kg	☼	05/29/25 06:48	05/30/25 12:07	1
Heptachlor	ND		4.2	0.91	ug/Kg	☼	05/29/25 06:48	05/30/25 12:07	1
Heptachlor epoxide	ND		4.2	1.1	ug/Kg	☼	05/29/25 06:48	05/30/25 12:07	1
Methoxychlor	ND		4.2	0.86	ug/Kg	☼	05/29/25 06:48	05/30/25 12:07	1
Toxaphene	ND		42	25	ug/Kg	☼	05/29/25 06:48	05/30/25 12:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	70		45 - 120	05/29/25 06:48	05/30/25 12:07	1
DCB Decachlorobiphenyl	78		45 - 120	05/29/25 06:48	05/30/25 12:07	1
Tetrachloro-m-xylene	69		30 - 124	05/29/25 06:48	05/30/25 12:07	1
Tetrachloro-m-xylene	69		30 - 124	05/29/25 06:48	05/30/25 12:07	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.22	0.043	mg/Kg	☼	05/30/25 06:41	05/30/25 16:21	1
PCB-1221	ND		0.22	0.043	mg/Kg	☼	05/30/25 06:41	05/30/25 16:21	1
PCB-1232	ND		0.22	0.043	mg/Kg	☼	05/30/25 06:41	05/30/25 16:21	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-11 Native

Lab Sample ID: 480-229710-8

Date Collected: 05/27/25 11:30

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 78.8

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.22	0.043	mg/Kg	✱	05/30/25 06:41	05/30/25 16:21	1
PCB-1248	ND		0.22	0.043	mg/Kg	✱	05/30/25 06:41	05/30/25 16:21	1
PCB-1254	ND		0.22	0.10	mg/Kg	✱	05/30/25 06:41	05/30/25 16:21	1
PCB-1260	ND		0.22	0.10	mg/Kg	✱	05/30/25 06:41	05/30/25 16:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	113		60 - 154				05/30/25 06:41	05/30/25 16:21	1
Tetrachloro-m-xylene	115		60 - 154				05/30/25 06:41	05/30/25 16:21	1
DCB Decachlorobiphenyl	111		65 - 174				05/30/25 06:41	05/30/25 16:21	1
DCB Decachlorobiphenyl	115		65 - 174				05/30/25 06:41	05/30/25 16:21	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.39	0.13	ng/g	✱	06/01/25 11:59	06/02/25 12:59	1
Perfluoropentanoic acid (PFPeA)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 12:59	1
Perfluorohexanoic acid (PFHxA)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 12:59	1
Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 12:59	1
Perfluorooctanoic acid (PFOA)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 12:59	1
Perfluorononanoic acid (PFNA)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 12:59	1
Perfluorodecanoic acid (PFDA)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 12:59	1
Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 12:59	1
Perfluorododecanoic acid (PFDoA)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 12:59	1
Perfluorotridecanoic acid (PFTTrDA)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 12:59	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 12:59	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 12:59	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 12:59	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 12:59	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 12:59	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.20	0.11	ng/g	✱	06/01/25 11:59	06/02/25 12:59	1
Perfluorononanesulfonic acid (PFNS)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 12:59	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 12:59	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 12:59	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.39	0.099	ng/g	✱	06/01/25 11:59	06/02/25 12:59	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.39	0.13	ng/g	✱	06/01/25 11:59	06/02/25 12:59	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.39	0.13	ng/g	✱	06/01/25 11:59	06/02/25 12:59	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.089	ng/g	✱	06/01/25 11:59	06/02/25 12:59	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.20	0.089	ng/g	✱	06/01/25 11:59	06/02/25 12:59	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.20	0.099	ng/g	✱	06/01/25 11:59	06/02/25 12:59	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.20	0.079	ng/g	✱	06/01/25 11:59	06/02/25 12:59	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.20	0.11	ng/g	✱	06/01/25 11:59	06/02/25 12:59	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		0.99	0.30	ng/g	✱	06/01/25 11:59	06/02/25 12:59	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-11 Native

Lab Sample ID: 480-229710-8

Date Collected: 05/27/25 11:30

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 78.8

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		0.99	0.30	ng/g	☼	06/01/25 11:59	06/02/25 12:59	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.20	0.11	ng/g	☼	06/01/25 11:59	06/02/25 12:59	1
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND		0.20	0.059	ng/g	☼	06/01/25 11:59	06/02/25 12:59	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.20	0.069	ng/g	☼	06/01/25 11:59	06/02/25 12:59	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.20	0.049	ng/g	☼	06/01/25 11:59	06/02/25 12:59	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.20	0.069	ng/g	☼	06/01/25 11:59	06/02/25 12:59	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.20	0.089	ng/g	☼	06/01/25 11:59	06/02/25 12:59	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.20	0.079	ng/g	☼	06/01/25 11:59	06/02/25 12:59	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.20	0.049	ng/g	☼	06/01/25 11:59	06/02/25 12:59	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.39	0.20	ng/g	☼	06/01/25 11:59	06/02/25 12:59	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		0.99	0.49	ng/g	☼	06/01/25 11:59	06/02/25 12:59	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		0.99	0.39	ng/g	☼	06/01/25 11:59	06/02/25 12:59	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	115		8 - 130	06/01/25 11:59	06/02/25 12:59	1
13C5-PFPeA	121		35 - 130	06/01/25 11:59	06/02/25 12:59	1
13C5-PFHxA	115		40 - 130	06/01/25 11:59	06/02/25 12:59	1
13C4-PFHpA	107		40 - 130	06/01/25 11:59	06/02/25 12:59	1
13C8-PFOA	103		40 - 130	06/01/25 11:59	06/02/25 12:59	1
13C9-PFNA	98.8		40 - 130	06/01/25 11:59	06/02/25 12:59	1
13C6-PFDA	92.0		40 - 130	06/01/25 11:59	06/02/25 12:59	1
13C7-PFUnA	87.0		40 - 130	06/01/25 11:59	06/02/25 12:59	1
13C2-PFTeDA	39.9		20 - 130	06/01/25 11:59	06/02/25 12:59	1
13C3-PFBS	107		40 - 135	06/01/25 11:59	06/02/25 12:59	1
13C3-PFHxS	102		40 - 130	06/01/25 11:59	06/02/25 12:59	1
13C8-PFOS	78.9		40 - 130	06/01/25 11:59	06/02/25 12:59	1
13C8-PFOSA	88.3		40 - 130	06/01/25 11:59	06/02/25 12:59	1
d3-NMeFOSAA	86.4		40 - 135	06/01/25 11:59	06/02/25 12:59	1
d5-NEtFOSAA	116		40 - 150	06/01/25 11:59	06/02/25 12:59	1
13C2 4:2 FTS	121		40 - 165	06/01/25 11:59	06/02/25 12:59	1
13C2 6:2 FTS	124		40 - 215	06/01/25 11:59	06/02/25 12:59	1
13C2 8:2 FTS	97.8		40 - 275	06/01/25 11:59	06/02/25 12:59	1
13C3-HFPO-DA	114		40 - 130	06/01/25 11:59	06/02/25 12:59	1
D7-NMeFOSE	35.0		20 - 130	06/01/25 11:59	06/02/25 12:59	1
D9-NEtFOSE	27.0		15 - 130	06/01/25 11:59	06/02/25 12:59	1
d5-NEtPFOSA	57.4		10 - 130	06/01/25 11:59	06/02/25 12:59	1
d3-NMePFOSA	62.9		10 - 130	06/01/25 11:59	06/02/25 12:59	1
13C2 PFDaA	71.3		40 - 130	06/01/25 11:59	06/02/25 12:59	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-11 Native

Lab Sample ID: 480-229710-8

Date Collected: 05/27/25 11:30

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 78.8

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	23100		13.5	11.6	mg/Kg	✱	05/28/25 15:39	05/29/25 19:24	1
Antimony	ND		20.2	0.71	mg/Kg	✱	05/28/25 15:39	05/29/25 19:24	1
Arsenic	8.7		2.7	1.2	mg/Kg	✱	05/28/25 15:39	05/29/25 19:24	1
Barium	162		0.67	0.19	mg/Kg	✱	05/28/25 15:39	05/29/25 19:24	1
Beryllium	0.97	^5-	0.27	0.054	mg/Kg	✱	05/28/25 15:39	05/29/25 19:24	1
Cadmium	0.16	J	0.27	0.094	mg/Kg	✱	05/28/25 15:39	05/29/25 19:24	1
Calcium	3020	^5-	67.3	36.3	mg/Kg	✱	05/28/25 15:39	05/29/25 19:24	1
Chromium	28.5	^5-	0.67	0.48	mg/Kg	✱	05/28/25 15:39	05/29/25 19:24	1
Cobalt	10.7		0.67	0.13	mg/Kg	✱	05/28/25 15:39	05/29/25 19:24	1
Copper	24.3		1.3	0.77	mg/Kg	✱	05/28/25 15:39	05/29/25 19:24	1
Iron	33400		13.5	11.4	mg/Kg	✱	05/28/25 15:39	05/30/25 11:49	1
Lead	12.9		1.3	0.62	mg/Kg	✱	05/28/25 15:39	05/29/25 19:24	1
Magnesium	5860		26.9	11.4	mg/Kg	✱	05/28/25 15:39	05/29/25 19:24	1
Manganese	309		1.3	0.38	mg/Kg	✱	05/28/25 15:39	05/30/25 11:49	1
Nickel	35.3	^5-	6.7	0.34	mg/Kg	✱	05/28/25 15:39	05/29/25 19:24	1
Potassium	4090		40.4	32.6	mg/Kg	✱	05/28/25 15:39	05/29/25 19:24	1
Selenium	ND		5.4	1.1	mg/Kg	✱	05/28/25 15:39	05/29/25 19:24	1
Silver	ND	^5-	0.81	0.27	mg/Kg	✱	05/28/25 15:39	05/29/25 19:24	1
Sodium	416		189	82.6	mg/Kg	✱	05/28/25 15:39	05/29/25 19:24	1
Thallium	ND		8.1	1.0	mg/Kg	✱	05/28/25 15:39	05/29/25 19:24	1
Vanadium	39.0	^5-	0.67	0.18	mg/Kg	✱	05/28/25 15:39	05/29/25 19:24	1
Zinc	79.2	^5-	2.7	1.4	mg/Kg	✱	05/28/25 15:39	05/29/25 19:24	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020	J	0.026	0.0060	mg/Kg	✱	05/30/25 13:38	05/30/25 16:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		1.2	0.58	mg/Kg	✱	05/29/25 12:55	05/29/25 20:28	1

Client Sample ID: RI-BH-12 Fill

Lab Sample ID: 480-229710-9

Date Collected: 05/27/25 11:40

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 92.1

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.2	0.38	ug/Kg	✱	05/28/25 18:17	05/29/25 02:49	1
1,1,1,2,2-Tetrachloroethane	ND	vs	5.2	0.85	ug/Kg	✱	05/28/25 18:17	05/29/25 02:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.2	1.2	ug/Kg	✱	05/28/25 18:17	05/29/25 02:49	1
1,1,2-Trichloroethane	ND	vs	5.2	0.68	ug/Kg	✱	05/28/25 18:17	05/29/25 02:49	1
1,1-Dichloroethane	ND	vs	5.2	0.64	ug/Kg	✱	05/28/25 18:17	05/29/25 02:49	1
1,1-Dichloroethene	ND	vs	5.2	0.64	ug/Kg	✱	05/28/25 18:17	05/29/25 02:49	1
1,2,4-Trichlorobenzene	ND	vs	5.2	0.32	ug/Kg	✱	05/28/25 18:17	05/29/25 02:49	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.2	2.6	ug/Kg	✱	05/28/25 18:17	05/29/25 02:49	1
1,2-Dichlorobenzene	ND	vs	5.2	0.41	ug/Kg	✱	05/28/25 18:17	05/29/25 02:49	1
1,2-Dichloroethane	ND	vs	5.2	0.26	ug/Kg	✱	05/28/25 18:17	05/29/25 02:49	1
1,2-Dichloropropane	ND	vs	5.2	2.6	ug/Kg	✱	05/28/25 18:17	05/29/25 02:49	1
1,3-Dichlorobenzene	ND	vs	5.2	0.27	ug/Kg	✱	05/28/25 18:17	05/29/25 02:49	1
1,4-Dichlorobenzene	ND	vs	5.2	0.73	ug/Kg	✱	05/28/25 18:17	05/29/25 02:49	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-12 Fill

Lab Sample ID: 480-229710-9

Date Collected: 05/27/25 11:40

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 92.1

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND	vs	26	1.9	ug/Kg	☼	05/28/25 18:17	05/29/25 02:49	1
2-Hexanone	ND	vs	26	2.6	ug/Kg	☼	05/28/25 18:17	05/29/25 02:49	1
4-Methyl-2-pentanone (MIBK)	ND	vs	26	1.7	ug/Kg	☼	05/28/25 18:17	05/29/25 02:49	1
Acetone	ND	vs	26	4.4	ug/Kg	☼	05/28/25 18:17	05/29/25 02:49	1
Benzene	ND	vs	5.2	0.26	ug/Kg	☼	05/28/25 18:17	05/29/25 02:49	1
Bromoform	ND	vs	5.2	2.6	ug/Kg	☼	05/28/25 18:17	05/29/25 02:49	1
Bromomethane	ND	vs	5.2	0.47	ug/Kg	☼	05/28/25 18:17	05/29/25 02:49	1
Carbon disulfide	ND	vs	5.2	2.6	ug/Kg	☼	05/28/25 18:17	05/29/25 02:49	1
Carbon tetrachloride	ND	vs	5.2	0.51	ug/Kg	☼	05/28/25 18:17	05/29/25 02:49	1
Chlorobenzene	ND	vs	5.2	0.69	ug/Kg	☼	05/28/25 18:17	05/29/25 02:49	1
Dibromochloromethane	ND	vs	5.2	0.67	ug/Kg	☼	05/28/25 18:17	05/29/25 02:49	1
Chloroethane	ND	vs	5.2	1.2	ug/Kg	☼	05/28/25 18:17	05/29/25 02:49	1
Chloroform	0.40	J vs	5.2	0.32	ug/Kg	☼	05/28/25 18:17	05/29/25 02:49	1
Chloromethane	ND	vs	5.2	0.32	ug/Kg	☼	05/28/25 18:17	05/29/25 02:49	1
cis-1,2-Dichloroethene	ND	vs	5.2	0.67	ug/Kg	☼	05/28/25 18:17	05/29/25 02:49	1
Cyclohexane	ND	vs	5.2	0.73	ug/Kg	☼	05/28/25 18:17	05/29/25 02:49	1
Bromodichloromethane	ND	vs	5.2	0.70	ug/Kg	☼	05/28/25 18:17	05/29/25 02:49	1
Dichlorodifluoromethane	ND	vs	5.2	0.43	ug/Kg	☼	05/28/25 18:17	05/29/25 02:49	1
Ethylbenzene	ND	vs	5.2	0.36	ug/Kg	☼	05/28/25 18:17	05/29/25 02:49	1
1,2-Dibromoethane	ND	vs	5.2	0.67	ug/Kg	☼	05/28/25 18:17	05/29/25 02:49	1
Isopropylbenzene	ND	vs	5.2	0.79	ug/Kg	☼	05/28/25 18:17	05/29/25 02:49	1
Methyl acetate	ND	vs	26	3.2	ug/Kg	☼	05/28/25 18:17	05/29/25 02:49	1
Methyl tert-butyl ether	ND	vs	5.2	0.52	ug/Kg	☼	05/28/25 18:17	05/29/25 02:49	1
Methylcyclohexane	ND	vs	5.2	0.80	ug/Kg	☼	05/28/25 18:17	05/29/25 02:49	1
Methylene Chloride	5.3	B vs	5.2	2.4	ug/Kg	☼	05/28/25 18:17	05/29/25 02:49	1
Tetrachloroethene	ND	vs	5.2	0.70	ug/Kg	☼	05/28/25 18:17	05/29/25 02:49	1
Toluene	ND	vs	5.2	0.40	ug/Kg	☼	05/28/25 18:17	05/29/25 02:49	1
trans-1,2-Dichloroethene	ND	vs	5.2	0.54	ug/Kg	☼	05/28/25 18:17	05/29/25 02:49	1
trans-1,3-Dichloropropene	ND	vs	5.2	2.3	ug/Kg	☼	05/28/25 18:17	05/29/25 02:49	1
Trichloroethene	ND	vs	5.2	1.2	ug/Kg	☼	05/28/25 18:17	05/29/25 02:49	1
Trichlorofluoromethane	ND	vs	5.2	0.50	ug/Kg	☼	05/28/25 18:17	05/29/25 02:49	1
Vinyl chloride	ND	vs	5.2	0.64	ug/Kg	☼	05/28/25 18:17	05/29/25 02:49	1
Xylenes, Total	ND	vs	10	0.88	ug/Kg	☼	05/28/25 18:17	05/29/25 02:49	1
cis-1,3-Dichloropropene	ND	vs	5.2	0.76	ug/Kg	☼	05/28/25 18:17	05/29/25 02:49	1
Styrene	ND	vs	5.2	0.26	ug/Kg	☼	05/28/25 18:17	05/29/25 02:49	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼		N/A	05/28/25 18:17	05/29/25 02:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		64 - 126				05/28/25 18:17	05/29/25 02:49	1
4-Bromofluorobenzene (Surr)	106		72 - 126				05/28/25 18:17	05/29/25 02:49	1
Toluene-d8 (Surr)	91		71 - 125				05/28/25 18:17	05/29/25 02:49	1
Dibromofluoromethane (Surr)	104		60 - 140				05/28/25 18:17	05/29/25 02:49	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		110	40	ug/Kg	☼	05/29/25 13:50	05/30/25 15:17	1
2,4,5-Trichlorophenol	ND		180	37	ug/Kg	☼	05/29/25 13:50	05/30/25 15:17	1
2,4,6-Trichlorophenol	ND		180	28	ug/Kg	☼	05/29/25 13:50	05/30/25 15:17	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-12 Fill

Lab Sample ID: 480-229710-9

Date Collected: 05/27/25 11:40

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 92.1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		180	36	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
2,4-Dimethylphenol	ND		180	38	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
2,4-Dinitrophenol	ND		1800	35	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
2,4-Dinitrotoluene	ND		180	25	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
2,6-Dinitrotoluene	ND		180	26	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
2-Chloronaphthalene	ND		180	34	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
2-Chlorophenol	ND		180	29	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
2-Methylnaphthalene	39	J	180	29	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
2-Methylphenol	ND		180	30	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
2-Nitroaniline	ND		360	31	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
2-Nitrophenol	ND		180	21	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
3,3'-Dichlorobenzidine	ND		360	53	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
3-Nitroaniline	ND		360	26	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
4,6-Dinitro-2-methylphenol	ND		360	40	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
4-Bromophenyl phenyl ether	ND		180	31	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
4-Chloro-3-methylphenol	ND		180	37	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
4-Chloroaniline	ND		180	26	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
4-Chlorophenyl phenyl ether	ND		180	38	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
4-Methylphenol	ND		360	33	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
4-Nitroaniline	ND		360	27	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
4-Nitrophenol	ND		360	50	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
Acenaphthene	ND		180	34	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
Acenaphthylene	ND		180	35	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
Acetophenone	ND		180	32	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
Anthracene	46	J	180	34	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
Atrazine	ND		180	62	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
Benzaldehyde	ND		180	140	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
Benzo[a]anthracene	150	J	180	25	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
Benzo[a]pyrene	120	J	180	31	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
Benzo[b]fluoranthene	180		180	25	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
Benzo[g,h,i]perylene	120	J	180	32	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
Benzo[k]fluoranthene	89	J	180	41	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
Biphenyl	ND		180	34	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
bis (2-chloroisopropyl) ether	ND		180	37	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
Bis(2-chloroethoxy)methane	ND		180	35	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
Bis(2-chloroethyl)ether	ND		180	34	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
Bis(2-ethylhexyl) phthalate	ND		180	40	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
Butyl benzyl phthalate	ND		180	34	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
Caprolactam	ND		180	42	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
Carbazole	ND		180	36	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
Chrysene	170	J	180	44	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
Dibenz(a,h)anthracene	46	J	180	37	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
Dibenzofuran	ND		180	32	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
Diethyl phthalate	ND		180	33	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
Dimethyl phthalate	ND		180	35	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
Di-n-butyl phthalate	ND		180	41	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
Di-n-octyl phthalate	ND		180	35	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
Fluoranthene	290		180	33	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1
Fluorene	ND		180	33	ug/Kg	✱	05/29/25 13:50	05/30/25 15:17	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-12 Fill

Lab Sample ID: 480-229710-9

Date Collected: 05/27/25 11:40

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 92.1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	ND		180	35	ug/Kg	☼	05/29/25 13:50	05/30/25 15:17	1
Hexachlorobutadiene	ND		180	27	ug/Kg	☼	05/29/25 13:50	05/30/25 15:17	1
Hexachlorocyclopentadiene	ND		360	80	ug/Kg	☼	05/29/25 13:50	05/30/25 15:17	1
Hexachloroethane	ND		180	33	ug/Kg	☼	05/29/25 13:50	05/30/25 15:17	1
Indeno[1,2,3-cd]pyrene	100	J	180	27	ug/Kg	☼	05/29/25 13:50	05/30/25 15:17	1
Isophorone	ND		180	37	ug/Kg	☼	05/29/25 13:50	05/30/25 15:17	1
Naphthalene	ND		180	30	ug/Kg	☼	05/29/25 13:50	05/30/25 15:17	1
Nitrobenzene	ND		180	31	ug/Kg	☼	05/29/25 13:50	05/30/25 15:17	1
N-Nitrosodi-n-propylamine	ND		180	41	ug/Kg	☼	05/29/25 13:50	05/30/25 15:17	1
N-Nitrosodiphenylamine	ND		180	31	ug/Kg	☼	05/29/25 13:50	05/30/25 15:17	1
Pentachlorophenol	ND		360	58	ug/Kg	☼	05/29/25 13:50	05/30/25 15:17	1
Phenanthrene	240		180	34	ug/Kg	☼	05/29/25 13:50	05/30/25 15:17	1
Phenol	ND		180	33	ug/Kg	☼	05/29/25 13:50	05/30/25 15:17	1
Pyrene	230		180	35	ug/Kg	☼	05/29/25 13:50	05/30/25 15:17	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	13000	T J	ug/Kg	☼	2.00	N/A	05/29/25 13:50	05/30/25 15:17	1
Unknown	2500	T J	ug/Kg	☼	3.47	N/A	05/29/25 13:50	05/30/25 15:17	1
Unknown	370	T J	ug/Kg	☼	10.40	N/A	05/29/25 13:50	05/30/25 15:17	1
Unknown	330	T J	ug/Kg	☼	11.48	N/A	05/29/25 13:50	05/30/25 15:17	1
1-Eicosanol	760	T J N	ug/Kg	☼	13.18	629-96-9	05/29/25 13:50	05/30/25 15:17	1
Cyclotetradecane	1400	T J N	ug/Kg	☼	13.72	295-17-0	05/29/25 13:50	05/30/25 15:17	1
1-Nonadecene	920	T J N	ug/Kg	☼	14.23	18435-45-5	05/29/25 13:50	05/30/25 15:17	1
Unknown	310	T J	ug/Kg	☼	14.60	N/A	05/29/25 13:50	05/30/25 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	70		10 - 140	05/29/25 13:50	05/30/25 15:17	1
2-Fluorobiphenyl (Surr)	78		29 - 120	05/29/25 13:50	05/30/25 15:17	1
2-Fluorophenol (Surr)	69		18 - 120	05/29/25 13:50	05/30/25 15:17	1
Nitrobenzene-d5 (Surr)	72		22 - 120	05/29/25 13:50	05/30/25 15:17	1
Phenol-d5 (Surr)	71		23 - 120	05/29/25 13:50	05/30/25 15:17	1
p-Terphenyl-d14 (Surr)	73		28 - 124	05/29/25 13:50	05/30/25 15:17	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.77	J	3.6	0.70	ug/Kg	☼	05/29/25 06:48	05/30/25 12:27	1
4,4'-DDE	ND		3.6	0.75	ug/Kg	☼	05/29/25 06:48	05/30/25 12:27	1
4,4'-DDT	3.6		3.6	0.84	ug/Kg	☼	05/29/25 06:48	05/30/25 12:27	1
beta-BHC	ND		3.6	0.65	ug/Kg	☼	05/29/25 06:48	05/30/25 12:27	1
cis-Chlordane	ND		3.6	1.8	ug/Kg	☼	05/29/25 06:48	05/30/25 12:27	1
alpha-BHC	ND		3.6	0.65	ug/Kg	☼	05/29/25 06:48	05/30/25 12:27	1
Aldrin	ND		3.6	0.88	ug/Kg	☼	05/29/25 06:48	05/30/25 12:27	1
delta-BHC	ND		3.6	0.67	ug/Kg	☼	05/29/25 06:48	05/30/25 12:27	1
Dieldrin	ND		3.6	0.86	ug/Kg	☼	05/29/25 06:48	05/30/25 12:27	1
Endosulfan I	ND		3.6	0.69	ug/Kg	☼	05/29/25 06:48	05/30/25 12:27	1
Endosulfan II	1.2	J	3.6	0.65	ug/Kg	☼	05/29/25 06:48	05/30/25 12:27	1
Endosulfan sulfate	ND		3.6	0.67	ug/Kg	☼	05/29/25 06:48	05/30/25 12:27	1
Endrin	ND		3.6	0.71	ug/Kg	☼	05/29/25 06:48	05/30/25 12:27	1
Endrin aldehyde	1.4	J	3.6	0.92	ug/Kg	☼	05/29/25 06:48	05/30/25 12:27	1
Endrin ketone	ND		3.6	0.88	ug/Kg	☼	05/29/25 06:48	05/30/25 12:27	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-12 Fill

Lab Sample ID: 480-229710-9

Date Collected: 05/27/25 11:40

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 92.1

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	ND		3.6	0.66	ug/Kg	☆	05/29/25 06:48	05/30/25 12:27	1
trans-Chlordane	ND		3.6	1.1	ug/Kg	☆	05/29/25 06:48	05/30/25 12:27	1
Heptachlor	ND		3.6	0.78	ug/Kg	☆	05/29/25 06:48	05/30/25 12:27	1
Heptachlor epoxide	ND		3.6	0.93	ug/Kg	☆	05/29/25 06:48	05/30/25 12:27	1
Methoxychlor	4.2	B	3.6	0.73	ug/Kg	☆	05/29/25 06:48	05/30/25 12:27	1
Toxaphene	ND		36	21	ug/Kg	☆	05/29/25 06:48	05/30/25 12:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	97		45 - 120	05/29/25 06:48	05/30/25 12:27	1
DCB Decachlorobiphenyl	173	S1+	45 - 120	05/29/25 06:48	05/30/25 12:27	1
Tetrachloro-m-xylene	59		30 - 124	05/29/25 06:48	05/30/25 12:27	1
Tetrachloro-m-xylene	54		30 - 124	05/29/25 06:48	05/30/25 12:27	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.20	0.038	mg/Kg	☆	05/30/25 06:41	05/30/25 16:39	1
PCB-1221	ND		0.20	0.038	mg/Kg	☆	05/30/25 06:41	05/30/25 16:39	1
PCB-1232	ND		0.20	0.038	mg/Kg	☆	05/30/25 06:41	05/30/25 16:39	1
PCB-1242	ND		0.20	0.038	mg/Kg	☆	05/30/25 06:41	05/30/25 16:39	1
PCB-1248	ND		0.20	0.038	mg/Kg	☆	05/30/25 06:41	05/30/25 16:39	1
PCB-1254	ND		0.20	0.092	mg/Kg	☆	05/30/25 06:41	05/30/25 16:39	1
PCB-1260	ND		0.20	0.092	mg/Kg	☆	05/30/25 06:41	05/30/25 16:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	110		60 - 154	05/30/25 06:41	05/30/25 16:39	1
Tetrachloro-m-xylene	115		60 - 154	05/30/25 06:41	05/30/25 16:39	1
DCB Decachlorobiphenyl	106		65 - 174	05/30/25 06:41	05/30/25 16:39	1
DCB Decachlorobiphenyl	111		65 - 174	05/30/25 06:41	05/30/25 16:39	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.39	0.13	ng/g	☆	06/01/25 11:59	06/02/25 13:12	1
Perfluoropentanoic acid (PFPeA)	ND		0.20	0.049	ng/g	☆	06/01/25 11:59	06/02/25 13:12	1
Perfluorohexanoic acid (PFHxA)	ND		0.20	0.059	ng/g	☆	06/01/25 11:59	06/02/25 13:12	1
Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.069	ng/g	☆	06/01/25 11:59	06/02/25 13:12	1
Perfluorooctanoic acid (PFOA)	ND		0.20	0.059	ng/g	☆	06/01/25 11:59	06/02/25 13:12	1
Perfluorononanoic acid (PFNA)	ND		0.20	0.059	ng/g	☆	06/01/25 11:59	06/02/25 13:12	1
Perfluorodecanoic acid (PFDA)	ND		0.20	0.049	ng/g	☆	06/01/25 11:59	06/02/25 13:12	1
Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.049	ng/g	☆	06/01/25 11:59	06/02/25 13:12	1
Perfluorododecanoic acid (PFDoA)	ND		0.20	0.049	ng/g	☆	06/01/25 11:59	06/02/25 13:12	1
Perfluorotridecanoic acid (PFTriDA)	ND		0.20	0.069	ng/g	☆	06/01/25 11:59	06/02/25 13:12	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.20	0.069	ng/g	☆	06/01/25 11:59	06/02/25 13:12	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.069	ng/g	☆	06/01/25 11:59	06/02/25 13:12	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.20	0.059	ng/g	☆	06/01/25 11:59	06/02/25 13:12	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.049	ng/g	☆	06/01/25 11:59	06/02/25 13:12	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.069	ng/g	☆	06/01/25 11:59	06/02/25 13:12	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.20	0.11	ng/g	☆	06/01/25 11:59	06/02/25 13:12	1
Perfluorononanesulfonic acid (PFNS)	ND		0.20	0.069	ng/g	☆	06/01/25 11:59	06/02/25 13:12	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.049	ng/g	☆	06/01/25 11:59	06/02/25 13:12	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-12 Fill

Lab Sample ID: 480-229710-9

Date Collected: 05/27/25 11:40

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 92.1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 13:12	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.39	0.099	ng/g	✱	06/01/25 11:59	06/02/25 13:12	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.39	0.13	ng/g	✱	06/01/25 11:59	06/02/25 13:12	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.39	0.13	ng/g	✱	06/01/25 11:59	06/02/25 13:12	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.089	ng/g	✱	06/01/25 11:59	06/02/25 13:12	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.20	0.089	ng/g	✱	06/01/25 11:59	06/02/25 13:12	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.20	0.099	ng/g	✱	06/01/25 11:59	06/02/25 13:12	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.20	0.079	ng/g	✱	06/01/25 11:59	06/02/25 13:12	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.20	0.11	ng/g	✱	06/01/25 11:59	06/02/25 13:12	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		0.99	0.30	ng/g	✱	06/01/25 11:59	06/02/25 13:12	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		0.99	0.30	ng/g	✱	06/01/25 11:59	06/02/25 13:12	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.20	0.11	ng/g	✱	06/01/25 11:59	06/02/25 13:12	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 13:12	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 13:12	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 13:12	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 13:12	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.20	0.089	ng/g	✱	06/01/25 11:59	06/02/25 13:12	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.20	0.079	ng/g	✱	06/01/25 11:59	06/02/25 13:12	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 13:12	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.39	0.20	ng/g	✱	06/01/25 11:59	06/02/25 13:12	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		0.99	0.49	ng/g	✱	06/01/25 11:59	06/02/25 13:12	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		0.99	0.39	ng/g	✱	06/01/25 11:59	06/02/25 13:12	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	89.0		8 - 130	06/01/25 11:59	06/02/25 13:12	1
13C5-PFPeA	90.4		35 - 130	06/01/25 11:59	06/02/25 13:12	1
13C5-PFHxA	87.2		40 - 130	06/01/25 11:59	06/02/25 13:12	1
13C4-PFHpA	92.0		40 - 130	06/01/25 11:59	06/02/25 13:12	1
13C8-PFOA	87.7		40 - 130	06/01/25 11:59	06/02/25 13:12	1
13C9-PFNA	80.1		40 - 130	06/01/25 11:59	06/02/25 13:12	1
13C6-PFDA	80.3		40 - 130	06/01/25 11:59	06/02/25 13:12	1
13C7-PFUnA	85.1		40 - 130	06/01/25 11:59	06/02/25 13:12	1
13C2-PFTeDA	61.4		20 - 130	06/01/25 11:59	06/02/25 13:12	1
13C3-PFBS	85.7		40 - 135	06/01/25 11:59	06/02/25 13:12	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-12 Fill

Lab Sample ID: 480-229710-9

Date Collected: 05/27/25 11:40

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 92.1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3-PFHxS	77.6		40 - 130	06/01/25 11:59	06/02/25 13:12	1
13C8-PFOS	70.9		40 - 130	06/01/25 11:59	06/02/25 13:12	1
13C8-PFOSA	76.8		40 - 130	06/01/25 11:59	06/02/25 13:12	1
d3-NMeFOSAA	72.1		40 - 135	06/01/25 11:59	06/02/25 13:12	1
d5-NEtFOSAA	111		40 - 150	06/01/25 11:59	06/02/25 13:12	1
13C2 4:2 FTS	90.1		40 - 165	06/01/25 11:59	06/02/25 13:12	1
13C2 6:2 FTS	98.5		40 - 215	06/01/25 11:59	06/02/25 13:12	1
13C2 8:2 FTS	82.6		40 - 275	06/01/25 11:59	06/02/25 13:12	1
13C3-HFPO-DA	88.4		40 - 130	06/01/25 11:59	06/02/25 13:12	1
D7-NMeFOSE	41.2		20 - 130	06/01/25 11:59	06/02/25 13:12	1
D9-NEtFOSE	34.6		15 - 130	06/01/25 11:59	06/02/25 13:12	1
d5-NEtPFOSA	52.1		10 - 130	06/01/25 11:59	06/02/25 13:12	1
d3-NMePFOSA	58.0		10 - 130	06/01/25 11:59	06/02/25 13:12	1
13C2 PFDoA	78.4		40 - 130	06/01/25 11:59	06/02/25 13:12	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	16800		11.0	9.5	mg/Kg	✱	05/28/25 15:39	05/29/25 19:26	1
Antimony	ND		16.5	0.58	mg/Kg	✱	05/28/25 15:39	05/29/25 19:26	1
Arsenic	3.4		2.2	0.97	mg/Kg	✱	05/28/25 15:39	05/29/25 19:26	1
Barium	181		0.55	0.15	mg/Kg	✱	05/28/25 15:39	05/29/25 19:26	1
Beryllium	3.6	^5-	0.22	0.044	mg/Kg	✱	05/28/25 15:39	05/29/25 19:26	1
Cadmium	0.12	J	0.22	0.077	mg/Kg	✱	05/28/25 15:39	05/29/25 19:26	1
Calcium	72300		54.9	29.7	mg/Kg	✱	05/28/25 15:39	05/30/25 11:51	1
Chromium	11.8	^5-	0.55	0.40	mg/Kg	✱	05/28/25 15:39	05/29/25 19:26	1
Cobalt	3.6		0.55	0.11	mg/Kg	✱	05/28/25 15:39	05/29/25 19:26	1
Copper	14.9		1.1	0.63	mg/Kg	✱	05/28/25 15:39	05/29/25 19:26	1
Iron	11900		11.0	9.3	mg/Kg	✱	05/28/25 15:39	05/30/25 11:51	1
Lead	30.3		1.1	0.51	mg/Kg	✱	05/28/25 15:39	05/29/25 19:26	1
Magnesium	22500		22.0	9.3	mg/Kg	✱	05/28/25 15:39	05/29/25 19:26	1
Manganese	987		1.1	0.31	mg/Kg	✱	05/28/25 15:39	05/30/25 11:51	1
Nickel	7.0	^5-	5.5	0.27	mg/Kg	✱	05/28/25 15:39	05/29/25 19:26	1
Potassium	1450		33.0	26.6	mg/Kg	✱	05/28/25 15:39	05/29/25 19:26	1
Selenium	1.2	J	4.4	0.88	mg/Kg	✱	05/28/25 15:39	05/29/25 19:26	1
Silver	0.22	J ^5-	0.66	0.22	mg/Kg	✱	05/28/25 15:39	05/29/25 19:26	1
Sodium	645		154	67.4	mg/Kg	✱	05/28/25 15:39	05/29/25 19:26	1
Thallium	ND		6.6	0.84	mg/Kg	✱	05/28/25 15:39	05/29/25 19:26	1
Vanadium	11.1	^5-	0.55	0.14	mg/Kg	✱	05/28/25 15:39	05/29/25 19:26	1
Zinc	39.3	^5-	2.2	1.1	mg/Kg	✱	05/28/25 15:39	05/29/25 19:26	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.62		0.022	0.0050	mg/Kg	✱	05/30/25 13:38	05/30/25 16:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.69	J	1.1	0.51	mg/Kg	✱	05/29/25 12:55	05/29/25 20:29	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-13 Fill

Lab Sample ID: 480-229710-10

Date Collected: 05/27/25 12:00

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 73.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	6.8	0.49	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
1,1,2,2-Tetrachloroethane	ND	vs	6.8	1.1	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.8	1.5	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
1,1,2-Trichloroethane	ND	vs	6.8	0.88	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
1,1-Dichloroethane	ND	vs	6.8	0.83	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
1,1-Dichloroethene	ND	vs	6.8	0.83	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
1,2,4-Trichlorobenzene	ND	vs	6.8	0.41	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
1,2-Dibromo-3-Chloropropane	ND	vs	6.8	3.4	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
1,2-Dichlorobenzene	ND	vs	6.8	0.53	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
1,2-Dichloroethane	ND	vs	6.8	0.34	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
1,2-Dichloropropane	ND	vs	6.8	3.4	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
1,3-Dichlorobenzene	ND	vs	6.8	0.35	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
1,4-Dichlorobenzene	ND	vs	6.8	0.95	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
2-Butanone (MEK)	25	J vs	34	2.5	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
2-Hexanone	ND	vs	34	3.4	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
4-Methyl-2-pentanone (MIBK)	ND	vs	34	2.2	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
Acetone	160	vs	34	5.7	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
Benzene	ND	vs	6.8	0.33	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
Bromoform	ND	vs	6.8	3.4	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
Bromomethane	ND	vs	6.8	0.61	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
Carbon disulfide	ND	vs	6.8	3.4	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
Carbon tetrachloride	ND	vs	6.8	0.66	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
Chlorobenzene	ND	vs	6.8	0.90	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
Dibromochloromethane	ND	vs	6.8	0.87	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
Chloroethane	ND	vs	6.8	1.5	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
Chloroform	0.58	J vs	6.8	0.42	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
Chloromethane	ND	vs	6.8	0.41	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
cis-1,2-Dichloroethene	ND	vs	6.8	0.87	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
Cyclohexane	ND	vs	6.8	0.95	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
Bromodichloromethane	ND	vs	6.8	0.91	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
Dichlorodifluoromethane	ND	vs	6.8	0.56	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
Ethylbenzene	ND	vs	6.8	0.47	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
1,2-Dibromoethane	ND	vs	6.8	0.87	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
Isopropylbenzene	ND	vs	6.8	1.0	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
Methyl acetate	ND	vs	34	4.1	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
Methyl tert-butyl ether	ND	vs	6.8	0.67	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
Methylcyclohexane	ND	vs	6.8	1.0	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
Methylene Chloride	7.4	B vs	6.8	3.1	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
Tetrachloroethene	ND	vs	6.8	0.91	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
Toluene	ND	vs	6.8	0.51	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
trans-1,2-Dichloroethene	ND	vs	6.8	0.70	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
trans-1,3-Dichloropropene	ND	vs	6.8	3.0	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
Trichloroethene	ND	vs	6.8	1.5	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
Trichlorofluoromethane	ND	vs	6.8	0.64	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
Vinyl chloride	ND	vs	6.8	0.83	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
Xylenes, Total	ND	vs	14	1.1	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
cis-1,3-Dichloropropene	ND	vs	6.8	0.98	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1
Styrene	ND	vs	6.8	0.34	ug/Kg	✱	05/28/25 18:17	05/29/25 03:13	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-13 Fill

Lab Sample ID: 480-229710-10

Date Collected: 05/27/25 12:00

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 73.7

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼		N/A	05/28/25 18:17	05/29/25 03:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		64 - 126				05/28/25 18:17	05/29/25 03:13	1
4-Bromofluorobenzene (Surr)	105		72 - 126				05/28/25 18:17	05/29/25 03:13	1
Toluene-d8 (Surr)	90		71 - 125				05/28/25 18:17	05/29/25 03:13	1
Dibromofluoromethane (Surr)	79		60 - 140				05/28/25 18:17	05/29/25 03:13	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		130	50	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
2,4,5-Trichlorophenol	ND		230	46	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
2,4,6-Trichlorophenol	ND		230	35	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
2,4-Dichlorophenol	ND		230	45	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
2,4-Dimethylphenol	ND		230	48	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
2,4-Dinitrophenol	ND		2200	43	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
2,4-Dinitrotoluene	ND		230	31	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
2,6-Dinitrotoluene	ND		230	33	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
2-Chloronaphthalene	ND		230	43	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
2-Chlorophenol	ND		230	36	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
2-Methylnaphthalene	ND		230	36	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
2-Methylphenol	ND		230	37	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
2-Nitroaniline	ND		450	39	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
2-Nitrophenol	ND		230	26	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
3,3'-Dichlorobenzidine	ND		450	67	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
3-Nitroaniline	ND		450	32	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
4,6-Dinitro-2-methylphenol	ND		450	50	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
4-Bromophenyl phenyl ether	ND		230	39	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
4-Chloro-3-methylphenol	ND		230	47	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
4-Chloroaniline	ND		230	33	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
4-Chlorophenyl phenyl ether	ND		230	48	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
4-Methylphenol	ND		450	41	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
4-Nitroaniline	ND		450	33	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
4-Nitrophenol	ND		450	62	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
Acenaphthene	ND		230	42	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
Acenaphthylene	ND		230	44	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
Acetophenone	ND		230	40	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
Anthracene	55 J		230	42	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
Atrazine	ND		230	77	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
Benzaldehyde	ND		230	170	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
Benzo[a]anthracene	140 J		230	31	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
Benzo[a]pyrene	130 J		230	39	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
Benzo[b]fluoranthene	150 J		230	31	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
Benzo[g,h,i]perylene	120 J		230	40	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
Benzo[k]fluoranthene	88 J		230	51	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
Biphenyl	ND		230	43	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
bis (2-chloroisopropyl) ether	ND		230	47	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
Bis(2-chloroethoxy)methane	ND		230	44	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
Bis(2-chloroethyl)ether	ND		230	43	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
Bis(2-ethylhexyl) phthalate	ND		230	50	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-13 Fill

Lab Sample ID: 480-229710-10

Date Collected: 05/27/25 12:00

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 73.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	ND		230	42	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
Caprolactam	ND		230	53	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
Carbazole	ND		230	45	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
Chrysene	140	J	230	55	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
Dibenz(a,h)anthracene	ND		230	46	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
Dibenzofuran	ND		230	40	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
Diethyl phthalate	ND		230	41	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
Dimethyl phthalate	ND		230	44	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
Di-n-butyl phthalate	ND		230	51	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
Di-n-octyl phthalate	ND		230	43	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
Fluoranthene	340		230	42	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
Fluorene	ND		230	42	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
Hexachlorobenzene	ND		230	44	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
Hexachlorobutadiene	ND		230	34	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
Hexachlorocyclopentadiene	ND		450	100	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
Hexachloroethane	ND		230	42	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
Indeno[1,2,3-cd]pyrene	89	J	230	34	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
Isophorone	ND		230	47	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
Naphthalene	ND		230	38	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
Nitrobenzene	ND		230	38	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
N-Nitrosodi-n-propylamine	ND		230	51	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
N-Nitrosodiphenylamine	ND		230	38	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
Pentachlorophenol	ND		450	73	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
Phenanthrene	240		230	43	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
Phenol	ND		230	42	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1
Pyrene	280		230	43	ug/Kg	☼	05/29/25 13:50	05/30/25 15:42	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	830	T J	ug/Kg	☼	2.59	N/A	05/29/25 13:50	05/30/25 15:42	1
3-Penten-2-one, 4-methyl-	1900	T J N	ug/Kg	☼	2.80	141-79-7	05/29/25 13:50	05/30/25 15:42	1
Unknown	220000	T J	ug/Kg	☼	3.59	N/A	05/29/25 13:50	05/30/25 15:42	1
Unknown	1000	T J	ug/Kg	☼	4.53	N/A	05/29/25 13:50	05/30/25 15:42	1
Benzene, 1-(1,5-dimethyl-4-hexenyl)-4-methyl-	390	T J N	ug/Kg	☼	9.22	644-30-4	05/29/25 13:50	05/30/25 15:42	1
Unknown	600	T J	ug/Kg	☼	9.88	N/A	05/29/25 13:50	05/30/25 15:42	1
Decane	490	T J N	ug/Kg	☼	10.39	124-18-5	05/29/25 13:50	05/30/25 15:42	1
Unknown	470	T J	ug/Kg	☼	13.19	N/A	05/29/25 13:50	05/30/25 15:42	1
Unknown	530	T J	ug/Kg	☼	13.72	N/A	05/29/25 13:50	05/30/25 15:42	1
Docosane	1400	T J N	ug/Kg	☼	14.74	629-97-0	05/29/25 13:50	05/30/25 15:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	19		10 - 140	05/29/25 13:50	05/30/25 15:42	1
2-Fluorobiphenyl (Surr)	60		29 - 120	05/29/25 13:50	05/30/25 15:42	1
2-Fluorophenol (Surr)	37		18 - 120	05/29/25 13:50	05/30/25 15:42	1
Nitrobenzene-d5 (Surr)	58		22 - 120	05/29/25 13:50	05/30/25 15:42	1
Phenol-d5 (Surr)	53		23 - 120	05/29/25 13:50	05/30/25 15:42	1
p-Terphenyl-d14 (Surr)	63		28 - 124	05/29/25 13:50	05/30/25 15:42	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-13 Fill

Lab Sample ID: 480-229710-10

Date Collected: 05/27/25 12:00

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 73.7

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		88	17	ug/Kg	✱	05/29/25 06:48	05/30/25 12:46	20
4,4'-DDE	ND		88	19	ug/Kg	✱	05/29/25 06:48	05/30/25 12:46	20
4,4'-DDT	69	J	88	21	ug/Kg	✱	05/29/25 06:48	05/30/25 12:46	20
beta-BHC	ND		88	16	ug/Kg	✱	05/29/25 06:48	05/30/25 12:46	20
cis-Chlordane	ND		88	44	ug/Kg	✱	05/29/25 06:48	05/30/25 12:46	20
alpha-BHC	ND		88	16	ug/Kg	✱	05/29/25 06:48	05/30/25 12:46	20
Aldrin	ND		88	22	ug/Kg	✱	05/29/25 06:48	05/30/25 12:46	20
delta-BHC	ND		88	16	ug/Kg	✱	05/29/25 06:48	05/30/25 12:46	20
Dieldrin	ND		88	21	ug/Kg	✱	05/29/25 06:48	05/30/25 12:46	20
Endosulfan I	ND		88	17	ug/Kg	✱	05/29/25 06:48	05/30/25 12:46	20
Endosulfan II	ND		88	16	ug/Kg	✱	05/29/25 06:48	05/30/25 12:46	20
Endosulfan sulfate	ND		88	16	ug/Kg	✱	05/29/25 06:48	05/30/25 12:46	20
Endrin	ND		88	17	ug/Kg	✱	05/29/25 06:48	05/30/25 12:46	20
Endrin aldehyde	ND		88	23	ug/Kg	✱	05/29/25 06:48	05/30/25 12:46	20
Endrin ketone	ND		88	22	ug/Kg	✱	05/29/25 06:48	05/30/25 12:46	20
gamma-BHC (Lindane)	ND		88	16	ug/Kg	✱	05/29/25 06:48	05/30/25 12:46	20
trans-Chlordane	ND		88	28	ug/Kg	✱	05/29/25 06:48	05/30/25 12:46	20
Heptachlor	ND		88	19	ug/Kg	✱	05/29/25 06:48	05/30/25 12:46	20
Heptachlor epoxide	ND		88	23	ug/Kg	✱	05/29/25 06:48	05/30/25 12:46	20
Methoxychlor	100	B	88	18	ug/Kg	✱	05/29/25 06:48	05/30/25 12:46	20
Toxaphene	ND		880	510	ug/Kg	✱	05/29/25 06:48	05/30/25 12:46	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	0	S1-	45 - 120	05/29/25 06:48	05/30/25 12:46	20
DCB Decachlorobiphenyl	0	S1-	45 - 120	05/29/25 06:48	05/30/25 12:46	20
Tetrachloro-m-xylene	114		30 - 124	05/29/25 06:48	05/30/25 12:46	20
Tetrachloro-m-xylene	111		30 - 124	05/29/25 06:48	05/30/25 12:46	20

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.30	0.059	mg/Kg	✱	05/30/25 06:41	05/30/25 16:57	1
PCB-1221	ND		0.30	0.059	mg/Kg	✱	05/30/25 06:41	05/30/25 16:57	1
PCB-1232	ND		0.30	0.059	mg/Kg	✱	05/30/25 06:41	05/30/25 16:57	1
PCB-1242	ND		0.30	0.059	mg/Kg	✱	05/30/25 06:41	05/30/25 16:57	1
PCB-1248	ND		0.30	0.059	mg/Kg	✱	05/30/25 06:41	05/30/25 16:57	1
PCB-1254	ND		0.30	0.14	mg/Kg	✱	05/30/25 06:41	05/30/25 16:57	1
PCB-1260	ND		0.30	0.14	mg/Kg	✱	05/30/25 06:41	05/30/25 16:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	97		60 - 154	05/30/25 06:41	05/30/25 16:57	1
Tetrachloro-m-xylene	104		60 - 154	05/30/25 06:41	05/30/25 16:57	1
DCB Decachlorobiphenyl	95		65 - 174	05/30/25 06:41	05/30/25 16:57	1
DCB Decachlorobiphenyl	100		65 - 174	05/30/25 06:41	05/30/25 16:57	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.39	0.13	ng/g	✱	06/01/25 11:59	06/02/25 13:26	1
Perfluoropentanoic acid (PFPeA)	ND		0.19	0.048	ng/g	✱	06/01/25 11:59	06/02/25 13:26	1
Perfluorohexanoic acid (PFHxA)	ND		0.19	0.058	ng/g	✱	06/01/25 11:59	06/02/25 13:26	1
Perfluoroheptanoic acid (PFHpA)	ND		0.19	0.068	ng/g	✱	06/01/25 11:59	06/02/25 13:26	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-13 Fill

Lab Sample ID: 480-229710-10

Date Collected: 05/27/25 12:00

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 73.7

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	ND		0.19	0.058	ng/g	✱	06/01/25 11:59	06/02/25 13:26	1
Perfluorononanoic acid (PFNA)	ND		0.19	0.058	ng/g	✱	06/01/25 11:59	06/02/25 13:26	1
Perfluorodecanoic acid (PFDA)	ND		0.19	0.048	ng/g	✱	06/01/25 11:59	06/02/25 13:26	1
Perfluoroundecanoic acid (PFUnA)	ND		0.19	0.048	ng/g	✱	06/01/25 11:59	06/02/25 13:26	1
Perfluorododecanoic acid (PFDoA)	ND		0.19	0.048	ng/g	✱	06/01/25 11:59	06/02/25 13:26	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.19	0.068	ng/g	✱	06/01/25 11:59	06/02/25 13:26	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.19	0.068	ng/g	✱	06/01/25 11:59	06/02/25 13:26	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.19	0.068	ng/g	✱	06/01/25 11:59	06/02/25 13:26	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.19	0.058	ng/g	✱	06/01/25 11:59	06/02/25 13:26	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.19	0.048	ng/g	✱	06/01/25 11:59	06/02/25 13:26	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.19	0.068	ng/g	✱	06/01/25 11:59	06/02/25 13:26	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.19	0.11	ng/g	✱	06/01/25 11:59	06/02/25 13:26	1
Perfluorononanesulfonic acid (PFNS)	ND		0.19	0.068	ng/g	✱	06/01/25 11:59	06/02/25 13:26	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.19	0.048	ng/g	✱	06/01/25 11:59	06/02/25 13:26	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.19	0.058	ng/g	✱	06/01/25 11:59	06/02/25 13:26	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.39	0.097	ng/g	✱	06/01/25 11:59	06/02/25 13:26	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.39	0.13	ng/g	✱	06/01/25 11:59	06/02/25 13:26	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.39	0.13	ng/g	✱	06/01/25 11:59	06/02/25 13:26	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.19	0.087	ng/g	✱	06/01/25 11:59	06/02/25 13:26	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.19	0.087	ng/g	✱	06/01/25 11:59	06/02/25 13:26	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.19	0.097	ng/g	✱	06/01/25 11:59	06/02/25 13:26	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.19	0.078	ng/g	✱	06/01/25 11:59	06/02/25 13:26	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.19	0.11	ng/g	✱	06/01/25 11:59	06/02/25 13:26	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		0.97	0.29	ng/g	✱	06/01/25 11:59	06/02/25 13:26	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		0.97	0.29	ng/g	✱	06/01/25 11:59	06/02/25 13:26	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.19	0.11	ng/g	✱	06/01/25 11:59	06/02/25 13:26	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.19	0.058	ng/g	✱	06/01/25 11:59	06/02/25 13:26	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.19	0.068	ng/g	✱	06/01/25 11:59	06/02/25 13:26	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.19	0.048	ng/g	✱	06/01/25 11:59	06/02/25 13:26	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.19	0.068	ng/g	✱	06/01/25 11:59	06/02/25 13:26	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	ND		0.19	0.087	ng/g	✱	06/01/25 11:59	06/02/25 13:26	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	ND		0.19	0.078	ng/g	✱	06/01/25 11:59	06/02/25 13:26	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.19	0.048	ng/g	✱	06/01/25 11:59	06/02/25 13:26	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.39	0.19	ng/g	✱	06/01/25 11:59	06/02/25 13:26	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-13 Fill

Lab Sample ID: 480-229710-10

Date Collected: 05/27/25 12:00

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 73.7

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		0.97	0.48	ng/g	☆	06/01/25 11:59	06/02/25 13:26	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		0.97	0.39	ng/g	☆	06/01/25 11:59	06/02/25 13:26	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4-PFBA	73.9		8 - 130				06/01/25 11:59	06/02/25 13:26	1
13C5-PFPeA	79.6		35 - 130				06/01/25 11:59	06/02/25 13:26	1
13C5-PFHxA	77.5		40 - 130				06/01/25 11:59	06/02/25 13:26	1
13C4-PFHpA	78.2		40 - 130				06/01/25 11:59	06/02/25 13:26	1
13C8-PFOA	73.4		40 - 130				06/01/25 11:59	06/02/25 13:26	1
13C9-PFNA	68.3		40 - 130				06/01/25 11:59	06/02/25 13:26	1
13C6-PFDA	69.5		40 - 130				06/01/25 11:59	06/02/25 13:26	1
13C7-PFUnA	70.6		40 - 130				06/01/25 11:59	06/02/25 13:26	1
13C2-PFTeDA	59.2		20 - 130				06/01/25 11:59	06/02/25 13:26	1
13C3-PFBS	71.0		40 - 135				06/01/25 11:59	06/02/25 13:26	1
13C3-PFHxS	66.9		40 - 130				06/01/25 11:59	06/02/25 13:26	1
13C8-PFOS	61.4		40 - 130				06/01/25 11:59	06/02/25 13:26	1
13C8-PFOSA	66.5		40 - 130				06/01/25 11:59	06/02/25 13:26	1
d3-NMeFOSAA	62.9		40 - 135				06/01/25 11:59	06/02/25 13:26	1
d5-NEtFOSAA	89.0		40 - 150				06/01/25 11:59	06/02/25 13:26	1
13C2 4:2 FTS	81.0		40 - 165				06/01/25 11:59	06/02/25 13:26	1
13C2 6:2 FTS	87.9		40 - 215				06/01/25 11:59	06/02/25 13:26	1
13C2 8:2 FTS	75.6		40 - 275				06/01/25 11:59	06/02/25 13:26	1
13C3-HFPO-DA	74.6		40 - 130				06/01/25 11:59	06/02/25 13:26	1
D7-NMeFOSE	46.1		20 - 130				06/01/25 11:59	06/02/25 13:26	1
D9-NEtFOSE	37.7		15 - 130				06/01/25 11:59	06/02/25 13:26	1
d5-NEtPFOSA	51.0		10 - 130				06/01/25 11:59	06/02/25 13:26	1
d3-NMePFOSA	52.6		10 - 130				06/01/25 11:59	06/02/25 13:26	1
13C2 PFDoA	68.2		40 - 130				06/01/25 11:59	06/02/25 13:26	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9850		13.5	11.6	mg/Kg	☆	05/28/25 15:39	05/29/25 19:33	1
Antimony	ND		20.3	0.72	mg/Kg	☆	05/28/25 15:39	05/29/25 19:33	1
Arsenic	5.5		2.7	1.2	mg/Kg	☆	05/28/25 15:39	05/29/25 19:33	1
Barium	58.4		0.68	0.19	mg/Kg	☆	05/28/25 15:39	05/29/25 19:33	1
Beryllium	0.42	^5-	0.27	0.054	mg/Kg	☆	05/28/25 15:39	05/29/25 19:33	1
Cadmium	0.14	J	0.27	0.095	mg/Kg	☆	05/28/25 15:39	05/29/25 19:33	1
Calcium	81300		67.5	36.5	mg/Kg	☆	05/28/25 15:39	05/30/25 11:52	1
Chromium	23.3	^5-	0.68	0.49	mg/Kg	☆	05/28/25 15:39	05/29/25 19:33	1
Cobalt	5.8		0.68	0.14	mg/Kg	☆	05/28/25 15:39	05/29/25 19:33	1
Copper	43.1		1.4	0.77	mg/Kg	☆	05/28/25 15:39	05/29/25 19:33	1
Iron	14700		13.5	11.5	mg/Kg	☆	05/28/25 15:39	05/30/25 11:52	1
Lead	11.9		1.4	0.62	mg/Kg	☆	05/28/25 15:39	05/29/25 19:33	1
Magnesium	7530		27.0	11.5	mg/Kg	☆	05/28/25 15:39	05/29/25 19:33	1
Manganese	330		1.4	0.38	mg/Kg	☆	05/28/25 15:39	05/30/25 11:52	1
Nickel	20.9	^5-	6.8	0.34	mg/Kg	☆	05/28/25 15:39	05/29/25 19:33	1
Potassium	1660		40.5	32.7	mg/Kg	☆	05/28/25 15:39	05/29/25 19:33	1
Selenium	ND		5.4	1.1	mg/Kg	☆	05/28/25 15:39	05/29/25 19:33	1
Silver	ND	^5-	0.81	0.27	mg/Kg	☆	05/28/25 15:39	05/29/25 19:33	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-13 Fill

Lab Sample ID: 480-229710-10

Date Collected: 05/27/25 12:00

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 73.7

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	215		189	82.8	mg/Kg	☆	05/28/25 15:39	05/29/25 19:33	1
Thallium	ND		8.1	1.0	mg/Kg	☆	05/28/25 15:39	05/29/25 19:33	1
Vanadium	19.8	^5-	0.68	0.18	mg/Kg	☆	05/28/25 15:39	05/29/25 19:33	1
Zinc	40.5	^5-	2.7	1.4	mg/Kg	☆	05/28/25 15:39	05/29/25 19:33	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.028	0.0065	mg/Kg	☆	05/30/25 13:38	05/30/25 16:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		1.2	0.59	mg/Kg	☆	05/29/25 12:55	05/29/25 20:29	1

Client Sample ID: RI-BH-14 Fill

Lab Sample ID: 480-229710-11

Date Collected: 05/27/25 12:10

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 84.8

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.7	0.42	ug/Kg	☆	05/28/25 18:17	05/29/25 03:36	1
1,1,2,2-Tetrachloroethane	ND	vs	5.7	0.93	ug/Kg	☆	05/28/25 18:17	05/29/25 03:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.7	1.3	ug/Kg	☆	05/28/25 18:17	05/29/25 03:36	1
1,1,2-Trichloroethane	ND	vs	5.7	0.75	ug/Kg	☆	05/28/25 18:17	05/29/25 03:36	1
1,1-Dichloroethane	ND	vs	5.7	0.70	ug/Kg	☆	05/28/25 18:17	05/29/25 03:36	1
1,1-Dichloroethene	ND	vs	5.7	0.70	ug/Kg	☆	05/28/25 18:17	05/29/25 03:36	1
1,2,4-Trichlorobenzene	ND	vs	5.7	0.35	ug/Kg	☆	05/28/25 18:17	05/29/25 03:36	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.7	2.9	ug/Kg	☆	05/28/25 18:17	05/29/25 03:36	1
1,2-Dichlorobenzene	ND	vs	5.7	0.45	ug/Kg	☆	05/28/25 18:17	05/29/25 03:36	1
1,2-Dichloroethane	ND	vs	5.7	0.29	ug/Kg	☆	05/28/25 18:17	05/29/25 03:36	1
1,2-Dichloropropane	ND	vs	5.7	2.9	ug/Kg	☆	05/28/25 18:17	05/29/25 03:36	1
1,3-Dichlorobenzene	ND	vs	5.7	0.30	ug/Kg	☆	05/28/25 18:17	05/29/25 03:36	1
1,4-Dichlorobenzene	ND	vs	5.7	0.80	ug/Kg	☆	05/28/25 18:17	05/29/25 03:36	1
2-Butanone (MEK)	ND	vs	29	2.1	ug/Kg	☆	05/28/25 18:17	05/29/25 03:36	1
2-Hexanone	ND	vs	29	2.9	ug/Kg	☆	05/28/25 18:17	05/29/25 03:36	1
4-Methyl-2-pentanone (MIBK)	ND	vs	29	1.9	ug/Kg	☆	05/28/25 18:17	05/29/25 03:36	1
Acetone	ND	vs	29	4.8	ug/Kg	☆	05/28/25 18:17	05/29/25 03:36	1
Benzene	ND	vs	5.7	0.28	ug/Kg	☆	05/28/25 18:17	05/29/25 03:36	1
Bromoform	ND	vs	5.7	2.9	ug/Kg	☆	05/28/25 18:17	05/29/25 03:36	1
Bromomethane	ND	vs	5.7	0.52	ug/Kg	☆	05/28/25 18:17	05/29/25 03:36	1
Carbon disulfide	ND	vs	5.7	2.9	ug/Kg	☆	05/28/25 18:17	05/29/25 03:36	1
Carbon tetrachloride	ND	vs	5.7	0.56	ug/Kg	☆	05/28/25 18:17	05/29/25 03:36	1
Chlorobenzene	ND	vs	5.7	0.76	ug/Kg	☆	05/28/25 18:17	05/29/25 03:36	1
Dibromochloromethane	ND	vs	5.7	0.74	ug/Kg	☆	05/28/25 18:17	05/29/25 03:36	1
Chloroethane	ND	vs	5.7	1.3	ug/Kg	☆	05/28/25 18:17	05/29/25 03:36	1
Chloroform	0.44	J vs	5.7	0.36	ug/Kg	☆	05/28/25 18:17	05/29/25 03:36	1
Chloromethane	ND	vs	5.7	0.35	ug/Kg	☆	05/28/25 18:17	05/29/25 03:36	1
cis-1,2-Dichloroethene	ND	vs	5.7	0.74	ug/Kg	☆	05/28/25 18:17	05/29/25 03:36	1
Cyclohexane	ND	vs	5.7	0.80	ug/Kg	☆	05/28/25 18:17	05/29/25 03:36	1
Bromodichloromethane	ND	vs	5.7	0.77	ug/Kg	☆	05/28/25 18:17	05/29/25 03:36	1
Dichlorodifluoromethane	ND	vs	5.7	0.47	ug/Kg	☆	05/28/25 18:17	05/29/25 03:36	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-14 Fill

Lab Sample ID: 480-229710-11

Date Collected: 05/27/25 12:10

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 84.8

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND	vs	5.7	0.40	ug/Kg	✱	05/28/25 18:17	05/29/25 03:36	1
1,2-Dibromoethane	ND	vs	5.7	0.74	ug/Kg	✱	05/28/25 18:17	05/29/25 03:36	1
Isopropylbenzene	ND	vs	5.7	0.87	ug/Kg	✱	05/28/25 18:17	05/29/25 03:36	1
Methyl acetate	ND	vs	29	3.5	ug/Kg	✱	05/28/25 18:17	05/29/25 03:36	1
Methyl tert-butyl ether	ND	vs	5.7	0.56	ug/Kg	✱	05/28/25 18:17	05/29/25 03:36	1
Methylcyclohexane	ND	vs	5.7	0.87	ug/Kg	✱	05/28/25 18:17	05/29/25 03:36	1
Methylene Chloride	6.2	B vs	5.7	2.6	ug/Kg	✱	05/28/25 18:17	05/29/25 03:36	1
Tetrachloroethene	ND	vs	5.7	0.77	ug/Kg	✱	05/28/25 18:17	05/29/25 03:36	1
Toluene	ND	vs	5.7	0.43	ug/Kg	✱	05/28/25 18:17	05/29/25 03:36	1
trans-1,2-Dichloroethene	ND	vs	5.7	0.59	ug/Kg	✱	05/28/25 18:17	05/29/25 03:36	1
trans-1,3-Dichloropropene	ND	vs	5.7	2.5	ug/Kg	✱	05/28/25 18:17	05/29/25 03:36	1
Trichloroethene	ND	vs	5.7	1.3	ug/Kg	✱	05/28/25 18:17	05/29/25 03:36	1
Trichlorofluoromethane	ND	vs	5.7	0.54	ug/Kg	✱	05/28/25 18:17	05/29/25 03:36	1
Vinyl chloride	ND	vs	5.7	0.70	ug/Kg	✱	05/28/25 18:17	05/29/25 03:36	1
Xylenes, Total	ND	vs	11	0.97	ug/Kg	✱	05/28/25 18:17	05/29/25 03:36	1
cis-1,3-Dichloropropene	ND	vs	5.7	0.83	ug/Kg	✱	05/28/25 18:17	05/29/25 03:36	1
Styrene	ND	vs	5.7	0.29	ug/Kg	✱	05/28/25 18:17	05/29/25 03:36	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	✱		N/A	05/28/25 18:17	05/29/25 03:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		64 - 126	05/28/25 18:17	05/29/25 03:36	1
4-Bromofluorobenzene (Surr)	106		72 - 126	05/28/25 18:17	05/29/25 03:36	1
Toluene-d8 (Surr)	91		71 - 125	05/28/25 18:17	05/29/25 03:36	1
Dibromofluoromethane (Surr)	108		60 - 140	05/28/25 18:17	05/29/25 03:36	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		120	43	ug/Kg	✱	05/29/25 13:50	05/30/25 16:07	1
2,4,5-Trichlorophenol	ND		200	40	ug/Kg	✱	05/29/25 13:50	05/30/25 16:07	1
2,4,6-Trichlorophenol	ND		200	30	ug/Kg	✱	05/29/25 13:50	05/30/25 16:07	1
2,4-Dichlorophenol	ND		200	38	ug/Kg	✱	05/29/25 13:50	05/30/25 16:07	1
2,4-Dimethylphenol	ND		200	41	ug/Kg	✱	05/29/25 13:50	05/30/25 16:07	1
2,4-Dinitrophenol	ND		1900	37	ug/Kg	✱	05/29/25 13:50	05/30/25 16:07	1
2,4-Dinitrotoluene	ND		200	27	ug/Kg	✱	05/29/25 13:50	05/30/25 16:07	1
2,6-Dinitrotoluene	ND		200	28	ug/Kg	✱	05/29/25 13:50	05/30/25 16:07	1
2-Chloronaphthalene	ND		200	37	ug/Kg	✱	05/29/25 13:50	05/30/25 16:07	1
2-Chlorophenol	ND		200	31	ug/Kg	✱	05/29/25 13:50	05/30/25 16:07	1
2-Methylnaphthalene	64	J	200	31	ug/Kg	✱	05/29/25 13:50	05/30/25 16:07	1
2-Methylphenol	ND		200	32	ug/Kg	✱	05/29/25 13:50	05/30/25 16:07	1
2-Nitroaniline	ND		380	33	ug/Kg	✱	05/29/25 13:50	05/30/25 16:07	1
2-Nitrophenol	ND		200	22	ug/Kg	✱	05/29/25 13:50	05/30/25 16:07	1
3,3'-Dichlorobenzidine	ND		380	58	ug/Kg	✱	05/29/25 13:50	05/30/25 16:07	1
3-Nitroaniline	ND		380	28	ug/Kg	✱	05/29/25 13:50	05/30/25 16:07	1
4,6-Dinitro-2-methylphenol	ND		380	43	ug/Kg	✱	05/29/25 13:50	05/30/25 16:07	1
4-Bromophenyl phenyl ether	ND		200	33	ug/Kg	✱	05/29/25 13:50	05/30/25 16:07	1
4-Chloro-3-methylphenol	ND		200	40	ug/Kg	✱	05/29/25 13:50	05/30/25 16:07	1
4-Chloroaniline	ND		200	28	ug/Kg	✱	05/29/25 13:50	05/30/25 16:07	1
4-Chlorophenyl phenyl ether	ND		200	41	ug/Kg	✱	05/29/25 13:50	05/30/25 16:07	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-14 Fill

Lab Sample ID: 480-229710-11

Date Collected: 05/27/25 12:10

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 84.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methylphenol	ND		380	35	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
4-Nitroaniline	ND		380	29	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
4-Nitrophenol	ND		380	54	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
Acenaphthene	85	J	200	37	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
Acenaphthylene	ND		200	38	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
Acetophenone	ND		200	35	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
Anthracene	220		200	36	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
Atrazine	ND		200	66	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
Benzaldehyde	ND		200	150	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
Benzo[a]anthracene	320		200	27	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
Benzo[a]pyrene	350		200	33	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
Benzo[b]fluoranthene	410		200	26	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
Benzo[g,h,i]perylene	250		200	34	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
Benzo[k]fluoranthene	240		200	44	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
Biphenyl	ND		200	37	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
bis (2-chloroisopropyl) ether	ND		200	40	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
Bis(2-chloroethoxy)methane	ND		200	38	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
Bis(2-chloroethyl)ether	ND		200	37	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
Bis(2-ethylhexyl) phthalate	ND		200	43	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
Butyl benzyl phthalate	ND		200	36	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
Caprolactam	ND		200	45	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
Carbazole	83	J	200	39	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
Chrysene	380		200	47	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
Dibenz(a,h)anthracene	80	J	200	40	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
Dibenzofuran	67	J	200	35	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
Diethyl phthalate	ND		200	35	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
Dimethyl phthalate	ND		200	38	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
Di-n-butyl phthalate	ND		200	44	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
Di-n-octyl phthalate	ND		200	37	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
Fluoranthene	960		200	36	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
Fluorene	68	J	200	36	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
Hexachlorobenzene	ND		200	38	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
Hexachlorobutadiene	ND		200	29	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
Hexachlorocyclopentadiene	ND		380	86	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
Hexachloroethane	ND		200	36	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
Indeno[1,2,3-cd]pyrene	200		200	29	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
Isophorone	ND		200	40	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
Naphthalene	ND		200	33	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
Nitrobenzene	ND		200	33	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
N-Nitrosodi-n-propylamine	ND		200	44	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
N-Nitrosodiphenylamine	ND		200	33	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
Pentachlorophenol	ND		380	63	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
Phenanthrene	990		200	37	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
Phenol	ND		200	36	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1
Pyrene	750		200	37	ug/Kg	☼	05/29/25 13:50	05/30/25 16:07	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	9400	T J	ug/Kg	☼	2.00	N/A	05/29/25 13:50	05/30/25 16:07	1
Unknown	320	T J	ug/Kg	☼	2.10	N/A	05/29/25 13:50	05/30/25 16:07	1
Unknown	3200	T J	ug/Kg	☼	3.47	N/A	05/29/25 13:50	05/30/25 16:07	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-14 Fill

Lab Sample ID: 480-229710-11

Date Collected: 05/27/25 12:10

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 84.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	570	T J	ug/Kg	⊛	11.48	N/A	05/29/25 13:50	05/30/25 16:07	1
Unknown	420	T J	ug/Kg	⊛	12.72	N/A	05/29/25 13:50	05/30/25 16:07	1
1,2-Octadecanediol	640	T J N	ug/Kg	⊛	13.18	20294-76-2	05/29/25 13:50	05/30/25 16:07	1
17-Pentatriacontene	1300	T J N	ug/Kg	⊛	13.73	6971-40-0	05/29/25 13:50	05/30/25 16:07	1
Unknown	590	T J	ug/Kg	⊛	14.08	N/A	05/29/25 13:50	05/30/25 16:07	1
Cyclotetracosane	2300	T J N	ug/Kg	⊛	14.23	297-03-0	05/29/25 13:50	05/30/25 16:07	1
Oxirane, heptadecyl-	790	T J N	ug/Kg	⊛	14.60	67860-04-2	05/29/25 13:50	05/30/25 16:07	1
Unknown	850	T J	ug/Kg	⊛	14.73	N/A	05/29/25 13:50	05/30/25 16:07	1
Cyclohexadecane, 1,2-diethyl-	730	T J N	ug/Kg	⊛	14.77	1000155-85-3	05/29/25 13:50	05/30/25 16:07	1
Unknown	440	T J	ug/Kg	⊛	15.19	N/A	05/29/25 13:50	05/30/25 16:07	1
Unknown	330	T J	ug/Kg	⊛	15.40	N/A	05/29/25 13:50	05/30/25 16:07	1
Unknown	350	T J	ug/Kg	⊛	15.67	N/A	05/29/25 13:50	05/30/25 16:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		10 - 140				05/29/25 13:50	05/30/25 16:07	1
2-Fluorobiphenyl (Surr)	85		29 - 120				05/29/25 13:50	05/30/25 16:07	1
2-Fluorophenol (Surr)	77		18 - 120				05/29/25 13:50	05/30/25 16:07	1
Nitrobenzene-d5 (Surr)	80		22 - 120				05/29/25 13:50	05/30/25 16:07	1
Phenol-d5 (Surr)	79		23 - 120				05/29/25 13:50	05/30/25 16:07	1
p-Terphenyl-d14 (Surr)	81		28 - 124				05/29/25 13:50	05/30/25 16:07	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		3.8	0.74	ug/Kg	⊛	05/29/25 06:48	05/30/25 13:06	1
4,4'-DDE	ND		3.8	0.80	ug/Kg	⊛	05/29/25 06:48	05/30/25 13:06	1
4,4'-DDT	3.0	J	3.8	0.90	ug/Kg	⊛	05/29/25 06:48	05/30/25 13:06	1
beta-BHC	ND		3.8	0.69	ug/Kg	⊛	05/29/25 06:48	05/30/25 13:06	1
cis-Chlordane	ND		3.8	1.9	ug/Kg	⊛	05/29/25 06:48	05/30/25 13:06	1
alpha-BHC	ND		3.8	0.69	ug/Kg	⊛	05/29/25 06:48	05/30/25 13:06	1
Aldrin	ND		3.8	0.94	ug/Kg	⊛	05/29/25 06:48	05/30/25 13:06	1
delta-BHC	ND		3.8	0.71	ug/Kg	⊛	05/29/25 06:48	05/30/25 13:06	1
Dieldrin	ND		3.8	0.92	ug/Kg	⊛	05/29/25 06:48	05/30/25 13:06	1
Endosulfan I	ND		3.8	0.73	ug/Kg	⊛	05/29/25 06:48	05/30/25 13:06	1
Endosulfan II	ND		3.8	0.69	ug/Kg	⊛	05/29/25 06:48	05/30/25 13:06	1
Endosulfan sulfate	ND		3.8	0.71	ug/Kg	⊛	05/29/25 06:48	05/30/25 13:06	1
Endrin	ND		3.8	0.76	ug/Kg	⊛	05/29/25 06:48	05/30/25 13:06	1
Endrin aldehyde	ND		3.8	0.98	ug/Kg	⊛	05/29/25 06:48	05/30/25 13:06	1
Endrin ketone	1.7	J	3.8	0.94	ug/Kg	⊛	05/29/25 06:48	05/30/25 13:06	1
gamma-BHC (Lindane)	ND		3.8	0.70	ug/Kg	⊛	05/29/25 06:48	05/30/25 13:06	1
trans-Chlordane	ND		3.8	1.2	ug/Kg	⊛	05/29/25 06:48	05/30/25 13:06	1
Heptachlor	ND		3.8	0.83	ug/Kg	⊛	05/29/25 06:48	05/30/25 13:06	1
Heptachlor epoxide	ND		3.8	0.99	ug/Kg	⊛	05/29/25 06:48	05/30/25 13:06	1
Methoxychlor	4.4	B	3.8	0.78	ug/Kg	⊛	05/29/25 06:48	05/30/25 13:06	1
Toxaphene	ND		38	22	ug/Kg	⊛	05/29/25 06:48	05/30/25 13:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	99		45 - 120				05/29/25 06:48	05/30/25 13:06	1
DCB Decachlorobiphenyl	89		45 - 120				05/29/25 06:48	05/30/25 13:06	1
Tetrachloro-m-xylene	78		30 - 124				05/29/25 06:48	05/30/25 13:06	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-14 Fill

Lab Sample ID: 480-229710-11

Date Collected: 05/27/25 12:10

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 84.8

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	79		30 - 124	05/29/25 06:48	05/30/25 13:06	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.27	0.053	mg/Kg	✱	05/30/25 06:41	05/30/25 17:16	1
PCB-1221	ND		0.27	0.053	mg/Kg	✱	05/30/25 06:41	05/30/25 17:16	1
PCB-1232	ND		0.27	0.053	mg/Kg	✱	05/30/25 06:41	05/30/25 17:16	1
PCB-1242	ND		0.27	0.053	mg/Kg	✱	05/30/25 06:41	05/30/25 17:16	1
PCB-1248	ND		0.27	0.053	mg/Kg	✱	05/30/25 06:41	05/30/25 17:16	1
PCB-1254	ND		0.27	0.13	mg/Kg	✱	05/30/25 06:41	05/30/25 17:16	1
PCB-1260	ND		0.27	0.13	mg/Kg	✱	05/30/25 06:41	05/30/25 17:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	117		60 - 154	05/30/25 06:41	05/30/25 17:16	1
Tetrachloro-m-xylene	122		60 - 154	05/30/25 06:41	05/30/25 17:16	1
DCB Decachlorobiphenyl	113		65 - 174	05/30/25 06:41	05/30/25 17:16	1
DCB Decachlorobiphenyl	115		65 - 174	05/30/25 06:41	05/30/25 17:16	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.39	0.13	ng/g	✱	06/01/25 11:59	06/02/25 13:40	1
Perfluoropentanoic acid (PFPeA)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 13:40	1
Perfluorohexanoic acid (PFHxA)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 13:40	1
Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 13:40	1
Perfluorooctanoic acid (PFOA)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 13:40	1
Perfluorononanoic acid (PFNA)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 13:40	1
Perfluorodecanoic acid (PFDA)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 13:40	1
Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 13:40	1
Perfluorododecanoic acid (PFDoA)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 13:40	1
Perfluorotridecanoic acid (PFTriDA)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 13:40	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 13:40	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 13:40	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 13:40	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 13:40	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 13:40	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.20	0.11	ng/g	✱	06/01/25 11:59	06/02/25 13:40	1
Perfluorononanesulfonic acid (PFNS)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 13:40	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 13:40	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 13:40	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.39	0.099	ng/g	✱	06/01/25 11:59	06/02/25 13:40	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.39	0.13	ng/g	✱	06/01/25 11:59	06/02/25 13:40	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.39	0.13	ng/g	✱	06/01/25 11:59	06/02/25 13:40	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.089	ng/g	✱	06/01/25 11:59	06/02/25 13:40	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.20	0.089	ng/g	✱	06/01/25 11:59	06/02/25 13:40	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-14 Fill

Lab Sample ID: 480-229710-11

Date Collected: 05/27/25 12:10

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 84.8

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.20	0.099	ng/g	☼	06/01/25 11:59	06/02/25 13:40	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.20	0.079	ng/g	☼	06/01/25 11:59	06/02/25 13:40	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.20	0.11	ng/g	☼	06/01/25 11:59	06/02/25 13:40	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		0.99	0.30	ng/g	☼	06/01/25 11:59	06/02/25 13:40	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		0.99	0.30	ng/g	☼	06/01/25 11:59	06/02/25 13:40	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.20	0.11	ng/g	☼	06/01/25 11:59	06/02/25 13:40	1
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND		0.20	0.059	ng/g	☼	06/01/25 11:59	06/02/25 13:40	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.20	0.069	ng/g	☼	06/01/25 11:59	06/02/25 13:40	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.20	0.049	ng/g	☼	06/01/25 11:59	06/02/25 13:40	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.20	0.069	ng/g	☼	06/01/25 11:59	06/02/25 13:40	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.20	0.089	ng/g	☼	06/01/25 11:59	06/02/25 13:40	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.20	0.079	ng/g	☼	06/01/25 11:59	06/02/25 13:40	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.20	0.049	ng/g	☼	06/01/25 11:59	06/02/25 13:40	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.39	0.20	ng/g	☼	06/01/25 11:59	06/02/25 13:40	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		0.99	0.49	ng/g	☼	06/01/25 11:59	06/02/25 13:40	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		0.99	0.39	ng/g	☼	06/01/25 11:59	06/02/25 13:40	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4-PFBA	87.5		8 - 130				06/01/25 11:59	06/02/25 13:40	1
13C5-PFPeA	90.0		35 - 130				06/01/25 11:59	06/02/25 13:40	1
13C5-PFHxA	92.4		40 - 130				06/01/25 11:59	06/02/25 13:40	1
13C4-PFHpA	91.3		40 - 130				06/01/25 11:59	06/02/25 13:40	1
13C8-PFOA	83.8		40 - 130				06/01/25 11:59	06/02/25 13:40	1
13C9-PFNA	83.7		40 - 130				06/01/25 11:59	06/02/25 13:40	1
13C6-PFDA	85.4		40 - 130				06/01/25 11:59	06/02/25 13:40	1
13C7-PFUnA	93.5		40 - 130				06/01/25 11:59	06/02/25 13:40	1
13C2-PFTeDA	77.9		20 - 130				06/01/25 11:59	06/02/25 13:40	1
13C3-PFBS	86.5		40 - 135				06/01/25 11:59	06/02/25 13:40	1
13C3-PFHxS	80.5		40 - 130				06/01/25 11:59	06/02/25 13:40	1
13C8-PFOS	78.3		40 - 130				06/01/25 11:59	06/02/25 13:40	1
13C8-PFOSA	79.6		40 - 130				06/01/25 11:59	06/02/25 13:40	1
d3-NMeFOSAA	79.4		40 - 135				06/01/25 11:59	06/02/25 13:40	1
d5-NEtFOSAA	112		40 - 150				06/01/25 11:59	06/02/25 13:40	1
13C2 4:2 FTS	89.2		40 - 165				06/01/25 11:59	06/02/25 13:40	1
13C2 6:2 FTS	97.7		40 - 215				06/01/25 11:59	06/02/25 13:40	1
13C2 8:2 FTS	90.4		40 - 275				06/01/25 11:59	06/02/25 13:40	1
13C3-HFPO-DA	90.0		40 - 130				06/01/25 11:59	06/02/25 13:40	1
D7-NMeFOSE	52.2		20 - 130				06/01/25 11:59	06/02/25 13:40	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-14 Fill

Lab Sample ID: 480-229710-11

Date Collected: 05/27/25 12:10

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 84.8

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
D9-NEtFOSE	42.7		15 - 130	06/01/25 11:59	06/02/25 13:40	1
d5-NEtPFOSA	55.7		10 - 130	06/01/25 11:59	06/02/25 13:40	1
d3-NMePFOSA	60.8		10 - 130	06/01/25 11:59	06/02/25 13:40	1
13C2 PFDoA	88.8		40 - 130	06/01/25 11:59	06/02/25 13:40	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	16600		11.8	10.2	mg/Kg	✱	05/28/25 15:39	05/29/25 19:35	1
Antimony	0.98	J	17.7	0.62	mg/Kg	✱	05/28/25 15:39	05/29/25 19:35	1
Arsenic	9.9		2.4	1.0	mg/Kg	✱	05/28/25 15:39	05/29/25 19:35	1
Barium	250		0.59	0.16	mg/Kg	✱	05/28/25 15:39	05/29/25 19:35	1
Beryllium	0.83	^5-	0.24	0.047	mg/Kg	✱	05/28/25 15:39	05/29/25 19:35	1
Cadmium	0.33		0.24	0.082	mg/Kg	✱	05/28/25 15:39	05/29/25 19:35	1
Calcium	2330	^5-	58.9	31.8	mg/Kg	✱	05/28/25 15:39	05/29/25 19:35	1
Chromium	20.0	^5-	0.59	0.42	mg/Kg	✱	05/28/25 15:39	05/29/25 19:35	1
Cobalt	12.6		0.59	0.12	mg/Kg	✱	05/28/25 15:39	05/29/25 19:35	1
Copper	34.0		1.2	0.67	mg/Kg	✱	05/28/25 15:39	05/29/25 19:35	1
Iron	27600		11.8	10	mg/Kg	✱	05/28/25 15:39	05/30/25 11:54	1
Lead	25.3		1.2	0.54	mg/Kg	✱	05/28/25 15:39	05/29/25 19:35	1
Magnesium	3710		23.6	10	mg/Kg	✱	05/28/25 15:39	05/29/25 19:35	1
Manganese	136	^5-	1.2	0.33	mg/Kg	✱	05/28/25 15:39	05/29/25 19:35	1
Nickel	35.5	^5-	5.9	0.29	mg/Kg	✱	05/28/25 15:39	05/29/25 19:35	1
Potassium	3150		35.4	28.6	mg/Kg	✱	05/28/25 15:39	05/29/25 19:35	1
Selenium	ND		4.7	0.94	mg/Kg	✱	05/28/25 15:39	05/29/25 19:35	1
Silver	ND	^5-	0.71	0.24	mg/Kg	✱	05/28/25 15:39	05/29/25 19:35	1
Sodium	83.0	J	165	72.3	mg/Kg	✱	05/28/25 15:39	05/29/25 19:35	1
Thallium	ND		7.1	0.90	mg/Kg	✱	05/28/25 15:39	05/29/25 19:35	1
Vanadium	27.4	^5-	0.59	0.15	mg/Kg	✱	05/28/25 15:39	05/29/25 19:35	1
Zinc	213	^5-	2.4	1.2	mg/Kg	✱	05/28/25 15:39	05/29/25 19:35	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.024	0.0055	mg/Kg	✱	05/30/25 13:38	05/30/25 15:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND	F1	1.0	0.49	mg/Kg	✱	05/31/25 12:17	05/31/25 17:23	1

Client Sample ID: RI-BH-15 Fill

Lab Sample ID: 480-229710-12

Date Collected: 05/27/25 12:20

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 87.8

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.5	0.40	ug/Kg	✱	05/28/25 18:17	05/29/25 04:00	1
1,1,2,2-Tetrachloroethane	ND	vs	5.5	0.89	ug/Kg	✱	05/28/25 18:17	05/29/25 04:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.5	1.3	ug/Kg	✱	05/28/25 18:17	05/29/25 04:00	1
1,1,2-Trichloroethane	ND	vs	5.5	0.71	ug/Kg	✱	05/28/25 18:17	05/29/25 04:00	1
1,1-Dichloroethane	ND	vs	5.5	0.67	ug/Kg	✱	05/28/25 18:17	05/29/25 04:00	1
1,1-Dichloroethene	ND	vs	5.5	0.67	ug/Kg	✱	05/28/25 18:17	05/29/25 04:00	1
1,2,4-Trichlorobenzene	ND	vs	5.5	0.33	ug/Kg	✱	05/28/25 18:17	05/29/25 04:00	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-15 Fill

Lab Sample ID: 480-229710-12

Date Collected: 05/27/25 12:20

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 87.8

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND	vs	5.5	2.7	ug/Kg	☼	05/28/25 18:17	05/29/25 04:00	1
1,2-Dichlorobenzene	ND	vs	5.5	0.43	ug/Kg	☼	05/28/25 18:17	05/29/25 04:00	1
1,2-Dichloroethane	ND	vs	5.5	0.28	ug/Kg	☼	05/28/25 18:17	05/29/25 04:00	1
1,2-Dichloropropane	ND	vs	5.5	2.7	ug/Kg	☼	05/28/25 18:17	05/29/25 04:00	1
1,3-Dichlorobenzene	ND	vs	5.5	0.28	ug/Kg	☼	05/28/25 18:17	05/29/25 04:00	1
1,4-Dichlorobenzene	ND	vs	5.5	0.77	ug/Kg	☼	05/28/25 18:17	05/29/25 04:00	1
2-Butanone (MEK)	ND	vs	27	2.0	ug/Kg	☼	05/28/25 18:17	05/29/25 04:00	1
2-Hexanone	ND	vs	27	2.7	ug/Kg	☼	05/28/25 18:17	05/29/25 04:00	1
4-Methyl-2-pentanone (MIBK)	ND	vs	27	1.8	ug/Kg	☼	05/28/25 18:17	05/29/25 04:00	1
Acetone	5.7	J vs	27	4.6	ug/Kg	☼	05/28/25 18:17	05/29/25 04:00	1
Benzene	ND	vs	5.5	0.27	ug/Kg	☼	05/28/25 18:17	05/29/25 04:00	1
Bromoform	ND	vs	5.5	2.7	ug/Kg	☼	05/28/25 18:17	05/29/25 04:00	1
Bromomethane	ND	vs	5.5	0.49	ug/Kg	☼	05/28/25 18:17	05/29/25 04:00	1
Carbon disulfide	ND	vs	5.5	2.7	ug/Kg	☼	05/28/25 18:17	05/29/25 04:00	1
Carbon tetrachloride	ND	vs	5.5	0.53	ug/Kg	☼	05/28/25 18:17	05/29/25 04:00	1
Chlorobenzene	ND	vs	5.5	0.72	ug/Kg	☼	05/28/25 18:17	05/29/25 04:00	1
Dibromochloromethane	ND	vs	5.5	0.70	ug/Kg	☼	05/28/25 18:17	05/29/25 04:00	1
Chloroethane	ND	vs	5.5	1.2	ug/Kg	☼	05/28/25 18:17	05/29/25 04:00	1
Chloroform	0.52	J vs	5.5	0.34	ug/Kg	☼	05/28/25 18:17	05/29/25 04:00	1
Chloromethane	ND	vs	5.5	0.33	ug/Kg	☼	05/28/25 18:17	05/29/25 04:00	1
cis-1,2-Dichloroethene	ND	vs	5.5	0.70	ug/Kg	☼	05/28/25 18:17	05/29/25 04:00	1
Cyclohexane	ND	vs	5.5	0.77	ug/Kg	☼	05/28/25 18:17	05/29/25 04:00	1
Bromodichloromethane	ND	vs	5.5	0.74	ug/Kg	☼	05/28/25 18:17	05/29/25 04:00	1
Dichlorodifluoromethane	ND	vs	5.5	0.45	ug/Kg	☼	05/28/25 18:17	05/29/25 04:00	1
Ethylbenzene	ND	vs	5.5	0.38	ug/Kg	☼	05/28/25 18:17	05/29/25 04:00	1
1,2-Dibromoethane	ND	vs	5.5	0.70	ug/Kg	☼	05/28/25 18:17	05/29/25 04:00	1
Isopropylbenzene	ND	vs	5.5	0.83	ug/Kg	☼	05/28/25 18:17	05/29/25 04:00	1
Methyl acetate	ND	vs	27	3.3	ug/Kg	☼	05/28/25 18:17	05/29/25 04:00	1
Methyl tert-butyl ether	ND	vs	5.5	0.54	ug/Kg	☼	05/28/25 18:17	05/29/25 04:00	1
Methylcyclohexane	ND	vs	5.5	0.83	ug/Kg	☼	05/28/25 18:17	05/29/25 04:00	1
Methylene Chloride	6.6	B vs	5.5	2.5	ug/Kg	☼	05/28/25 18:17	05/29/25 04:00	1
Tetrachloroethene	ND	vs	5.5	0.74	ug/Kg	☼	05/28/25 18:17	05/29/25 04:00	1
Toluene	ND	vs	5.5	0.41	ug/Kg	☼	05/28/25 18:17	05/29/25 04:00	1
trans-1,2-Dichloroethene	ND	vs	5.5	0.57	ug/Kg	☼	05/28/25 18:17	05/29/25 04:00	1
trans-1,3-Dichloropropene	ND	vs	5.5	2.4	ug/Kg	☼	05/28/25 18:17	05/29/25 04:00	1
Trichloroethene	ND	vs	5.5	1.2	ug/Kg	☼	05/28/25 18:17	05/29/25 04:00	1
Trichlorofluoromethane	ND	vs	5.5	0.52	ug/Kg	☼	05/28/25 18:17	05/29/25 04:00	1
Vinyl chloride	ND	vs	5.5	0.67	ug/Kg	☼	05/28/25 18:17	05/29/25 04:00	1
Xylenes, Total	ND	vs	11	0.92	ug/Kg	☼	05/28/25 18:17	05/29/25 04:00	1
cis-1,3-Dichloropropene	ND	vs	5.5	0.79	ug/Kg	☼	05/28/25 18:17	05/29/25 04:00	1
Styrene	ND	vs	5.5	0.27	ug/Kg	☼	05/28/25 18:17	05/29/25 04:00	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼		N/A	05/28/25 18:17	05/29/25 04:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		64 - 126	05/28/25 18:17	05/29/25 04:00	1
4-Bromofluorobenzene (Surr)	105		72 - 126	05/28/25 18:17	05/29/25 04:00	1
Toluene-d8 (Surr)	91		71 - 125	05/28/25 18:17	05/29/25 04:00	1
Dibromofluoromethane (Surr)	104		60 - 140	05/28/25 18:17	05/29/25 04:00	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-15 Fill

Lab Sample ID: 480-229710-12

Date Collected: 05/27/25 12:20

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 87.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		110	42	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
2,4,5-Trichlorophenol	ND		190	39	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
2,4,6-Trichlorophenol	ND		190	29	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
2,4-Dichlorophenol	ND		190	38	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
2,4-Dimethylphenol	ND		190	40	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
2,4-Dinitrophenol	ND		1900	37	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
2,4-Dinitrotoluene	ND		190	26	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
2,6-Dinitrotoluene	ND		190	27	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
2-Chloronaphthalene	ND		190	36	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
2-Chlorophenol	ND		190	30	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
2-Methylnaphthalene	51	J	190	30	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
2-Methylphenol	ND		190	31	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
2-Nitroaniline	ND		370	33	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
2-Nitrophenol	ND		190	22	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
3,3'-Dichlorobenzidine	ND		370	56	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
3-Nitroaniline	ND		370	27	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
4,6-Dinitro-2-methylphenol	ND		370	42	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
4-Bromophenyl phenyl ether	ND		190	33	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
4-Chloro-3-methylphenol	ND		190	39	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
4-Chloroaniline	ND		190	28	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
4-Chlorophenyl phenyl ether	ND		190	40	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
4-Methylphenol	ND		370	34	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
4-Nitroaniline	ND		370	28	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
4-Nitrophenol	ND		370	52	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
Acenaphthene	ND		190	36	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
Acenaphthylene	ND		190	37	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
Acetophenone	ND		190	34	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
Anthracene	ND		190	35	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
Atrazine	ND		190	65	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
Benzaldehyde	ND		190	150	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
Benzo[a]anthracene	ND		190	26	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
Benzo[a]pyrene	ND		190	33	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
Benzo[b]fluoranthene	ND		190	26	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
Benzo[g,h,i]perylene	ND		190	33	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
Benzo[k]fluoranthene	ND		190	43	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
Biphenyl	ND		190	36	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
bis (2-chloroisopropyl) ether	ND		190	39	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
Bis(2-chloroethoxy)methane	ND		190	37	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
Bis(2-chloroethyl)ether	ND		190	36	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
Bis(2-ethylhexyl) phthalate	ND		190	42	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
Butyl benzyl phthalate	ND		190	35	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
Caprolactam	ND		190	44	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
Carbazole	ND		190	38	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
Chrysene	ND		190	46	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
Dibenz(a,h)anthracene	ND		190	39	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
Dibenzofuran	ND		190	34	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
Diethyl phthalate	ND		190	34	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
Dimethyl phthalate	ND		190	37	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1
Di-n-butyl phthalate	ND		190	43	ug/Kg	✱	05/29/25 13:50	05/30/25 16:31	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-15 Fill

Lab Sample ID: 480-229710-12

Date Collected: 05/27/25 12:20

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 87.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		190	37	ug/Kg	☼	05/29/25 13:50	05/30/25 16:31	1
Fluoranthene	ND		190	35	ug/Kg	☼	05/29/25 13:50	05/30/25 16:31	1
Fluorene	ND		190	35	ug/Kg	☼	05/29/25 13:50	05/30/25 16:31	1
Hexachlorobenzene	ND		190	37	ug/Kg	☼	05/29/25 13:50	05/30/25 16:31	1
Hexachlorobutadiene	ND		190	29	ug/Kg	☼	05/29/25 13:50	05/30/25 16:31	1
Hexachlorocyclopentadiene	ND		370	84	ug/Kg	☼	05/29/25 13:50	05/30/25 16:31	1
Hexachloroethane	ND		190	35	ug/Kg	☼	05/29/25 13:50	05/30/25 16:31	1
Indeno[1,2,3-cd]pyrene	ND		190	29	ug/Kg	☼	05/29/25 13:50	05/30/25 16:31	1
Isophorone	ND		190	39	ug/Kg	☼	05/29/25 13:50	05/30/25 16:31	1
Naphthalene	ND		190	32	ug/Kg	☼	05/29/25 13:50	05/30/25 16:31	1
Nitrobenzene	ND		190	32	ug/Kg	☼	05/29/25 13:50	05/30/25 16:31	1
N-Nitrosodi-n-propylamine	ND		190	43	ug/Kg	☼	05/29/25 13:50	05/30/25 16:31	1
N-Nitrosodiphenylamine	ND		190	32	ug/Kg	☼	05/29/25 13:50	05/30/25 16:31	1
Pentachlorophenol	ND		370	61	ug/Kg	☼	05/29/25 13:50	05/30/25 16:31	1
Phenanthrene	44	J	190	36	ug/Kg	☼	05/29/25 13:50	05/30/25 16:31	1
Phenol	ND		190	35	ug/Kg	☼	05/29/25 13:50	05/30/25 16:31	1
Pyrene	ND		190	36	ug/Kg	☼	05/29/25 13:50	05/30/25 16:31	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	36000	T J	ug/Kg	☼	1.99	N/A	05/29/25 13:50	05/30/25 16:31	1
Unknown	6300	T J	ug/Kg	☼	3.48	N/A	05/29/25 13:50	05/30/25 16:31	1
Heptadecane	410	T J N	ug/Kg	☼	10.39	629-78-7	05/29/25 13:50	05/30/25 16:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	33		10 - 140	05/29/25 13:50	05/30/25 16:31	1
2-Fluorobiphenyl (Surr)	76		29 - 120	05/29/25 13:50	05/30/25 16:31	1
2-Fluorophenol (Surr)	41		18 - 120	05/29/25 13:50	05/30/25 16:31	1
Nitrobenzene-d5 (Surr)	65		22 - 120	05/29/25 13:50	05/30/25 16:31	1
Phenol-d5 (Surr)	46		23 - 120	05/29/25 13:50	05/30/25 16:31	1
p-Terphenyl-d14 (Surr)	49		28 - 124	05/29/25 13:50	05/30/25 16:31	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		3.8	0.73	ug/Kg	☼	05/29/25 06:48	05/30/25 13:25	1
4,4'-DDE	ND		3.8	0.79	ug/Kg	☼	05/29/25 06:48	05/30/25 13:25	1
4,4'-DDT	3.0	J	3.8	0.88	ug/Kg	☼	05/29/25 06:48	05/30/25 13:25	1
beta-BHC	ND		3.8	0.68	ug/Kg	☼	05/29/25 06:48	05/30/25 13:25	1
cis-Chlordane	ND		3.8	1.9	ug/Kg	☼	05/29/25 06:48	05/30/25 13:25	1
alpha-BHC	ND		3.8	0.68	ug/Kg	☼	05/29/25 06:48	05/30/25 13:25	1
Aldrin	ND		3.8	0.93	ug/Kg	☼	05/29/25 06:48	05/30/25 13:25	1
delta-BHC	ND		3.8	0.70	ug/Kg	☼	05/29/25 06:48	05/30/25 13:25	1
Dieldrin	ND		3.8	0.90	ug/Kg	☼	05/29/25 06:48	05/30/25 13:25	1
Endosulfan I	ND		3.8	0.72	ug/Kg	☼	05/29/25 06:48	05/30/25 13:25	1
Endosulfan II	ND		3.8	0.68	ug/Kg	☼	05/29/25 06:48	05/30/25 13:25	1
Endosulfan sulfate	ND		3.8	0.70	ug/Kg	☼	05/29/25 06:48	05/30/25 13:25	1
Endrin	ND		3.8	0.74	ug/Kg	☼	05/29/25 06:48	05/30/25 13:25	1
Endrin aldehyde	ND		3.8	0.96	ug/Kg	☼	05/29/25 06:48	05/30/25 13:25	1
Endrin ketone	ND		3.8	0.93	ug/Kg	☼	05/29/25 06:48	05/30/25 13:25	1
gamma-BHC (Lindane)	ND		3.8	0.69	ug/Kg	☼	05/29/25 06:48	05/30/25 13:25	1
trans-Chlordane	ND		3.8	1.2	ug/Kg	☼	05/29/25 06:48	05/30/25 13:25	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-15 Fill

Lab Sample ID: 480-229710-12

Date Collected: 05/27/25 12:20

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 87.8

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		3.8	0.81	ug/Kg	✱	05/29/25 06:48	05/30/25 13:25	1
Heptachlor epoxide	ND		3.8	0.97	ug/Kg	✱	05/29/25 06:48	05/30/25 13:25	1
Methoxychlor	3.4	J B	3.8	0.77	ug/Kg	✱	05/29/25 06:48	05/30/25 13:25	1
Toxaphene	ND		38	22	ug/Kg	✱	05/29/25 06:48	05/30/25 13:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	56		45 - 120	05/29/25 06:48	05/30/25 13:25	1
DCB Decachlorobiphenyl	56		45 - 120	05/29/25 06:48	05/30/25 13:25	1
Tetrachloro-m-xylene	50		30 - 124	05/29/25 06:48	05/30/25 13:25	1
Tetrachloro-m-xylene	50		30 - 124	05/29/25 06:48	05/30/25 13:25	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25	0.049	mg/Kg	✱	05/30/25 06:41	05/30/25 17:34	1
PCB-1221	ND		0.25	0.049	mg/Kg	✱	05/30/25 06:41	05/30/25 17:34	1
PCB-1232	ND		0.25	0.049	mg/Kg	✱	05/30/25 06:41	05/30/25 17:34	1
PCB-1242	ND		0.25	0.049	mg/Kg	✱	05/30/25 06:41	05/30/25 17:34	1
PCB-1248	ND		0.25	0.049	mg/Kg	✱	05/30/25 06:41	05/30/25 17:34	1
PCB-1254	ND		0.25	0.12	mg/Kg	✱	05/30/25 06:41	05/30/25 17:34	1
PCB-1260	ND		0.25	0.12	mg/Kg	✱	05/30/25 06:41	05/30/25 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	104		60 - 154	05/30/25 06:41	05/30/25 17:34	1
Tetrachloro-m-xylene	109		60 - 154	05/30/25 06:41	05/30/25 17:34	1
DCB Decachlorobiphenyl	106		65 - 174	05/30/25 06:41	05/30/25 17:34	1
DCB Decachlorobiphenyl	113		65 - 174	05/30/25 06:41	05/30/25 17:34	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.40	0.13	ng/g	✱	06/01/25 11:59	06/02/25 13:53	1
Perfluoropentanoic acid (PFPeA)	ND		0.20	0.050	ng/g	✱	06/01/25 11:59	06/02/25 13:53	1
Perfluorohexanoic acid (PFHxA)	ND		0.20	0.060	ng/g	✱	06/01/25 11:59	06/02/25 13:53	1
Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.070	ng/g	✱	06/01/25 11:59	06/02/25 13:53	1
Perfluorooctanoic acid (PFOA)	0.088	J	0.20	0.060	ng/g	✱	06/01/25 11:59	06/02/25 13:53	1
Perfluorononanoic acid (PFNA)	ND		0.20	0.060	ng/g	✱	06/01/25 11:59	06/02/25 13:53	1
Perfluorodecanoic acid (PFDA)	ND		0.20	0.050	ng/g	✱	06/01/25 11:59	06/02/25 13:53	1
Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.050	ng/g	✱	06/01/25 11:59	06/02/25 13:53	1
Perfluorododecanoic acid (PFDoA)	ND		0.20	0.050	ng/g	✱	06/01/25 11:59	06/02/25 13:53	1
Perfluorotridecanoic acid (PFTTrDA)	ND		0.20	0.070	ng/g	✱	06/01/25 11:59	06/02/25 13:53	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.20	0.070	ng/g	✱	06/01/25 11:59	06/02/25 13:53	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.070	ng/g	✱	06/01/25 11:59	06/02/25 13:53	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.20	0.060	ng/g	✱	06/01/25 11:59	06/02/25 13:53	1
Perfluorohexanesulfonic acid (PFHxS)	0.070	J	0.20	0.050	ng/g	✱	06/01/25 11:59	06/02/25 13:53	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.070	ng/g	✱	06/01/25 11:59	06/02/25 13:53	1
Perfluorooctanesulfonic acid (PFOS)	0.77		0.20	0.11	ng/g	✱	06/01/25 11:59	06/02/25 13:53	1
Perfluorononanesulfonic acid (PFNS)	ND		0.20	0.070	ng/g	✱	06/01/25 11:59	06/02/25 13:53	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.050	ng/g	✱	06/01/25 11:59	06/02/25 13:53	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-15 Fill

Lab Sample ID: 480-229710-12

Date Collected: 05/27/25 12:20

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 87.8

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.060	ng/g	✱	06/01/25 11:59	06/02/25 13:53	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.40	0.099	ng/g	✱	06/01/25 11:59	06/02/25 13:53	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.40	0.13	ng/g	✱	06/01/25 11:59	06/02/25 13:53	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.40	0.13	ng/g	✱	06/01/25 11:59	06/02/25 13:53	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.090	ng/g	✱	06/01/25 11:59	06/02/25 13:53	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.20	0.090	ng/g	✱	06/01/25 11:59	06/02/25 13:53	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.20	0.099	ng/g	✱	06/01/25 11:59	06/02/25 13:53	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.20	0.080	ng/g	✱	06/01/25 11:59	06/02/25 13:53	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.11	J	0.20	0.11	ng/g	✱	06/01/25 11:59	06/02/25 13:53	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		0.99	0.30	ng/g	✱	06/01/25 11:59	06/02/25 13:53	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		0.99	0.30	ng/g	✱	06/01/25 11:59	06/02/25 13:53	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.20	0.11	ng/g	✱	06/01/25 11:59	06/02/25 13:53	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.20	0.060	ng/g	✱	06/01/25 11:59	06/02/25 13:53	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.20	0.070	ng/g	✱	06/01/25 11:59	06/02/25 13:53	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.20	0.050	ng/g	✱	06/01/25 11:59	06/02/25 13:53	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.20	0.070	ng/g	✱	06/01/25 11:59	06/02/25 13:53	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.20	0.090	ng/g	✱	06/01/25 11:59	06/02/25 13:53	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.20	0.080	ng/g	✱	06/01/25 11:59	06/02/25 13:53	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.20	0.050	ng/g	✱	06/01/25 11:59	06/02/25 13:53	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.40	0.20	ng/g	✱	06/01/25 11:59	06/02/25 13:53	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		0.99	0.50	ng/g	✱	06/01/25 11:59	06/02/25 13:53	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		0.99	0.40	ng/g	✱	06/01/25 11:59	06/02/25 13:53	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	100		8 - 130	06/01/25 11:59	06/02/25 13:53	1
13C5-PFPeA	100		35 - 130	06/01/25 11:59	06/02/25 13:53	1
13C5-PFHxA	97.9		40 - 130	06/01/25 11:59	06/02/25 13:53	1
13C4-PFHpA	96.2		40 - 130	06/01/25 11:59	06/02/25 13:53	1
13C8-PFOA	91.3		40 - 130	06/01/25 11:59	06/02/25 13:53	1
13C9-PFNA	93.9		40 - 130	06/01/25 11:59	06/02/25 13:53	1
13C6-PFDA	84.2		40 - 130	06/01/25 11:59	06/02/25 13:53	1
13C7-PFUnA	88.1		40 - 130	06/01/25 11:59	06/02/25 13:53	1
13C2-PFTeDA	63.2		20 - 130	06/01/25 11:59	06/02/25 13:53	1
13C3-PFBS	97.2		40 - 135	06/01/25 11:59	06/02/25 13:53	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-15 Fill

Lab Sample ID: 480-229710-12

Date Collected: 05/27/25 12:20

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 87.8

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3-PFHxS	90.0		40 - 130	06/01/25 11:59	06/02/25 13:53	1
13C8-PFOS	81.9		40 - 130	06/01/25 11:59	06/02/25 13:53	1
13C8-PFOSA	79.8		40 - 130	06/01/25 11:59	06/02/25 13:53	1
d3-NMeFOSAA	79.3		40 - 135	06/01/25 11:59	06/02/25 13:53	1
d5-NEtFOSAA	111		40 - 150	06/01/25 11:59	06/02/25 13:53	1
13C2 4:2 FTS	110		40 - 165	06/01/25 11:59	06/02/25 13:53	1
13C2 6:2 FTS	122		40 - 215	06/01/25 11:59	06/02/25 13:53	1
13C2 8:2 FTS	102		40 - 275	06/01/25 11:59	06/02/25 13:53	1
13C3-HFPO-DA	97.5		40 - 130	06/01/25 11:59	06/02/25 13:53	1
D7-NMeFOSE	37.2		20 - 130	06/01/25 11:59	06/02/25 13:53	1
D9-NEtFOSE	28.4		15 - 130	06/01/25 11:59	06/02/25 13:53	1
d5-NEtPFOSA	52.5		10 - 130	06/01/25 11:59	06/02/25 13:53	1
d3-NMePFOSA	59.9		10 - 130	06/01/25 11:59	06/02/25 13:53	1
13C2 PFDoA	76.3		40 - 130	06/01/25 11:59	06/02/25 13:53	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4490		10.8	9.3	mg/Kg	✱	05/28/25 15:39	05/29/25 19:37	1
Antimony	ND		16.1	0.57	mg/Kg	✱	05/28/25 15:39	05/29/25 19:37	1
Arsenic	5.4		2.2	0.95	mg/Kg	✱	05/28/25 15:39	05/29/25 19:37	1
Barium	34.3		0.54	0.15	mg/Kg	✱	05/28/25 15:39	05/29/25 19:37	1
Beryllium	0.23	^5-	0.22	0.043	mg/Kg	✱	05/28/25 15:39	05/29/25 19:37	1
Cadmium	ND		0.22	0.075	mg/Kg	✱	05/28/25 15:39	05/29/25 19:37	1
Calcium	36100		53.8	29.0	mg/Kg	✱	05/28/25 15:39	05/30/25 11:56	1
Chromium	6.0	^5-	0.54	0.39	mg/Kg	✱	05/28/25 15:39	05/29/25 19:37	1
Cobalt	2.6		0.54	0.11	mg/Kg	✱	05/28/25 15:39	05/29/25 19:37	1
Copper	6.8		1.1	0.61	mg/Kg	✱	05/28/25 15:39	05/29/25 19:37	1
Iron	7200	^5-	10.8	9.1	mg/Kg	✱	05/28/25 15:39	05/29/25 19:37	1
Lead	5.2		1.1	0.49	mg/Kg	✱	05/28/25 15:39	05/29/25 19:37	1
Magnesium	8400		21.5	9.1	mg/Kg	✱	05/28/25 15:39	05/29/25 19:37	1
Manganese	95.1	^5-	1.1	0.30	mg/Kg	✱	05/28/25 15:39	05/29/25 19:37	1
Nickel	7.6	^5-	5.4	0.27	mg/Kg	✱	05/28/25 15:39	05/29/25 19:37	1
Potassium	812		32.3	26.1	mg/Kg	✱	05/28/25 15:39	05/29/25 19:37	1
Selenium	ND		4.3	0.86	mg/Kg	✱	05/28/25 15:39	05/29/25 19:37	1
Silver	ND	^5-	0.65	0.22	mg/Kg	✱	05/28/25 15:39	05/29/25 19:37	1
Sodium	98.7	J	151	65.9	mg/Kg	✱	05/28/25 15:39	05/29/25 19:37	1
Thallium	ND		6.5	0.82	mg/Kg	✱	05/28/25 15:39	05/29/25 19:37	1
Vanadium	8.9	^5-	0.54	0.14	mg/Kg	✱	05/28/25 15:39	05/29/25 19:37	1
Zinc	23.5	^5-	2.2	1.1	mg/Kg	✱	05/28/25 15:39	05/29/25 19:37	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0065	J	0.023	0.0054	mg/Kg	✱	05/30/25 13:38	05/30/25 15:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		1.1	0.52	mg/Kg	✱	05/31/25 12:17	05/31/25 17:26	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-15 Native

Lab Sample ID: 480-229710-13

Date Collected: 05/27/25 12:40

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 86.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.49	J vs	5.5	0.40	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
1,1,2,2-Tetrachloroethane	ND	vs	5.5	0.90	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.5	1.3	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
1,1,2-Trichloroethane	ND	vs	5.5	0.72	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
1,1-Dichloroethane	ND	vs	5.5	0.67	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
1,1-Dichloroethene	ND	vs	5.5	0.68	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
1,2,4-Trichlorobenzene	ND	vs	5.5	0.34	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.5	2.8	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
1,2-Dichlorobenzene	ND	vs	5.5	0.43	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
1,2-Dichloroethane	ND	vs	5.5	0.28	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
1,2-Dichloropropane	ND	vs	5.5	2.8	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
1,3-Dichlorobenzene	ND	vs	5.5	0.28	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
1,4-Dichlorobenzene	ND	vs	5.5	0.77	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
2-Butanone (MEK)	ND	vs	28	2.0	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
2-Hexanone	ND	vs	28	2.8	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
4-Methyl-2-pentanone (MIBK)	ND	vs	28	1.8	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
Acetone	ND	vs	28	4.7	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
Benzene	ND	vs	5.5	0.27	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
Bromoform	ND	vs	5.5	2.8	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
Bromomethane	ND	vs	5.5	0.50	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
Carbon disulfide	ND	vs	5.5	2.8	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
Carbon tetrachloride	ND	vs	5.5	0.54	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
Chlorobenzene	ND	vs	5.5	0.73	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
Dibromochloromethane	ND	vs	5.5	0.71	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
Chloroethane	ND	vs	5.5	1.3	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
Chloroform	0.47	J vs	5.5	0.34	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
Chloromethane	ND	vs	5.5	0.33	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
cis-1,2-Dichloroethene	ND	vs	5.5	0.71	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
Cyclohexane	ND	vs	5.5	0.77	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
Bromodichloromethane	ND	vs	5.5	0.74	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
Dichlorodifluoromethane	ND	vs	5.5	0.46	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
Ethylbenzene	ND	vs	5.5	0.38	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
1,2-Dibromoethane	ND	vs	5.5	0.71	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
Isopropylbenzene	ND	vs	5.5	0.83	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
Methyl acetate	ND	vs	28	3.3	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
Methyl tert-butyl ether	ND	vs	5.5	0.54	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
Methylcyclohexane	ND	vs	5.5	0.84	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
Methylene Chloride	6.0	B vs	5.5	2.5	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
Tetrachloroethene	ND	vs	5.5	0.74	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
Toluene	ND	vs	5.5	0.42	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
trans-1,2-Dichloroethene	ND	vs	5.5	0.57	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
trans-1,3-Dichloropropene	ND	vs	5.5	2.4	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
Trichloroethene	ND	vs	5.5	1.2	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
Trichlorofluoromethane	ND	vs	5.5	0.52	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
Vinyl chloride	ND	vs	5.5	0.67	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
Xylenes, Total	ND	vs	11	0.93	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
cis-1,3-Dichloropropene	ND	vs	5.5	0.80	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1
Styrene	ND	vs	5.5	0.28	ug/Kg	✱	05/28/25 18:17	05/29/25 04:24	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-15 Native

Lab Sample ID: 480-229710-13

Date Collected: 05/27/25 12:40

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 86.7

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼		N/A	05/28/25 18:17	05/29/25 04:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		64 - 126				05/28/25 18:17	05/29/25 04:24	1
4-Bromofluorobenzene (Surr)	105		72 - 126				05/28/25 18:17	05/29/25 04:24	1
Toluene-d8 (Surr)	90		71 - 125				05/28/25 18:17	05/29/25 04:24	1
Dibromofluoromethane (Surr)	108		60 - 140				05/28/25 18:17	05/29/25 04:24	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		110	43	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
2,4,5-Trichlorophenol	ND		190	39	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
2,4,6-Trichlorophenol	ND		190	29	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
2,4-Dichlorophenol	ND		190	38	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
2,4-Dimethylphenol	ND		190	41	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
2,4-Dinitrophenol	ND		1900	37	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
2,4-Dinitrotoluene	ND		190	26	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
2,6-Dinitrotoluene	ND		190	28	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
2-Chloronaphthalene	ND		190	36	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
2-Chlorophenol	ND		190	30	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
2-Methylnaphthalene	ND		190	31	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
2-Methylphenol	ND		190	31	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
2-Nitroaniline	ND		380	33	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
2-Nitrophenol	ND		190	22	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
3,3'-Dichlorobenzidine	ND		380	57	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
3-Nitroaniline	ND		380	27	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
4,6-Dinitro-2-methylphenol	ND		380	43	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
4-Bromophenyl phenyl ether	ND		190	33	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
4-Chloro-3-methylphenol	ND		190	40	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
4-Chloroaniline	ND		190	28	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
4-Chlorophenyl phenyl ether	ND		190	41	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
4-Methylphenol	ND		380	35	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
4-Nitroaniline	ND		380	28	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
4-Nitrophenol	ND		380	53	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
Acenaphthene	ND		190	36	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
Acenaphthylene	ND		190	37	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
Acetophenone	ND		190	34	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
Anthracene	ND		190	36	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
Atrazine	ND		190	66	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
Benzaldehyde	ND		190	150	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
Benzo[a]anthracene	ND		190	27	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
Benzo[a]pyrene	ND		190	33	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
Benzo[b]fluoranthene	ND		190	26	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
Benzo[g,h,i]perylene	ND		190	34	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
Benzo[k]fluoranthene	ND		190	43	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
Biphenyl	ND		190	36	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
bis (2-chloroisopropyl) ether	ND		190	40	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
Bis(2-chloroethoxy)methane	ND		190	37	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
Bis(2-chloroethyl)ether	ND		190	37	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
Bis(2-ethylhexyl) phthalate	ND		190	42	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-15 Native

Lab Sample ID: 480-229710-13

Date Collected: 05/27/25 12:40

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 86.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	ND		190	36	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
Caprolactam	ND		190	45	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
Carbazole	ND		190	38	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
Chrysene	ND		190	47	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
Dibenz(a,h)anthracene	ND		190	39	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
Dibenzofuran	ND		190	34	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
Diethyl phthalate	ND		190	35	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
Dimethyl phthalate	ND		190	37	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
Di-n-butyl phthalate	ND		190	43	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
Di-n-octyl phthalate	ND		190	37	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
Fluoranthene	ND		190	35	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
Fluorene	ND		190	36	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
Hexachlorobenzene	ND		190	37	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
Hexachlorobutadiene	ND		190	29	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
Hexachlorocyclopentadiene	ND		380	85	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
Hexachloroethane	ND		190	35	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
Indeno[1,2,3-cd]pyrene	ND		190	29	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
Isophorone	ND		190	40	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
Naphthalene	ND		190	32	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
Nitrobenzene	ND		190	33	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
N-Nitrosodi-n-propylamine	ND		190	43	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
N-Nitrosodiphenylamine	ND		190	32	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
Pentachlorophenol	ND		380	62	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
Phenanthrene	ND		190	36	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
Phenol	ND		190	35	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1
Pyrene	ND		190	37	ug/Kg	☼	05/29/25 13:50	05/30/25 16:56	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	37000	T J	ug/Kg	☼	1.99	N/A	05/29/25 13:50	05/30/25 16:56	1
Unknown	3200	T J	ug/Kg	☼	3.48	N/A	05/29/25 13:50	05/30/25 16:56	1
Unknown	310	T J	ug/Kg	☼	7.38	N/A	05/29/25 13:50	05/30/25 16:56	1
Unknown	370	T J	ug/Kg	☼	7.81	N/A	05/29/25 13:50	05/30/25 16:56	1
Unknown	380	T J	ug/Kg	☼	8.00	N/A	05/29/25 13:50	05/30/25 16:56	1
Tetradecane	550	T J N	ug/Kg	☼	8.67	629-59-4	05/29/25 13:50	05/30/25 16:56	1
Dodecane	340	T J N	ug/Kg	☼	9.67	112-40-3	05/29/25 13:50	05/30/25 16:56	1
Decane, 2,3,5-trimethyl-	640	T J N	ug/Kg	☼	9.87	62238-11-3	05/29/25 13:50	05/30/25 16:56	1
Unknown	770	T J	ug/Kg	☼	10.11	N/A	05/29/25 13:50	05/30/25 16:56	1
Triacontane	1400	T J N	ug/Kg	☼	10.39	638-68-6	05/29/25 13:50	05/30/25 16:56	1
Heptadecane	710	T J N	ug/Kg	☼	10.85	629-78-7	05/29/25 13:50	05/30/25 16:56	1
Tridecane	730	T J N	ug/Kg	☼	11.26	629-50-5	05/29/25 13:50	05/30/25 16:56	1
Eicosane	720	T J N	ug/Kg	☼	11.64	112-95-8	05/29/25 13:50	05/30/25 16:56	1
Tricosane, 2-methyl-	560	T J N	ug/Kg	☼	11.99	1928-30-9	05/29/25 13:50	05/30/25 16:56	1
Unknown	530	T J	ug/Kg	☼	12.32	N/A	05/29/25 13:50	05/30/25 16:56	1
Docosane	410	T J N	ug/Kg	☼	12.62	629-97-0	05/29/25 13:50	05/30/25 16:56	1
Unknown	370	T J	ug/Kg	☼	13.19	N/A	05/29/25 13:50	05/30/25 16:56	1
Pentacosane	410	T J N	ug/Kg	☼	13.46	629-99-2	05/29/25 13:50	05/30/25 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	78		10 - 140	05/29/25 13:50	05/30/25 16:56	1
2-Fluorobiphenyl (Surr)	80		29 - 120	05/29/25 13:50	05/30/25 16:56	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-15 Native

Lab Sample ID: 480-229710-13

Date Collected: 05/27/25 12:40

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 86.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	74		18 - 120	05/29/25 13:50	05/30/25 16:56	1
Nitrobenzene-d5 (Surr)	79		22 - 120	05/29/25 13:50	05/30/25 16:56	1
Phenol-d5 (Surr)	74		23 - 120	05/29/25 13:50	05/30/25 16:56	1
p-Terphenyl-d14 (Surr)	75		28 - 124	05/29/25 13:50	05/30/25 16:56	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		3.8	0.73	ug/Kg	✱	05/29/25 06:48	05/30/25 13:45	1
4,4'-DDE	ND		3.8	0.79	ug/Kg	✱	05/29/25 06:48	05/30/25 13:45	1
4,4'-DDT	ND		3.8	0.88	ug/Kg	✱	05/29/25 06:48	05/30/25 13:45	1
beta-BHC	ND		3.8	0.67	ug/Kg	✱	05/29/25 06:48	05/30/25 13:45	1
cis-Chlordane	ND		3.8	1.9	ug/Kg	✱	05/29/25 06:48	05/30/25 13:45	1
alpha-BHC	ND		3.8	0.67	ug/Kg	✱	05/29/25 06:48	05/30/25 13:45	1
Aldrin	ND		3.8	0.92	ug/Kg	✱	05/29/25 06:48	05/30/25 13:45	1
delta-BHC	ND		3.8	0.70	ug/Kg	✱	05/29/25 06:48	05/30/25 13:45	1
Dieldrin	ND		3.8	0.90	ug/Kg	✱	05/29/25 06:48	05/30/25 13:45	1
Endosulfan I	ND		3.8	0.72	ug/Kg	✱	05/29/25 06:48	05/30/25 13:45	1
Endosulfan II	ND		3.8	0.67	ug/Kg	✱	05/29/25 06:48	05/30/25 13:45	1
Endosulfan sulfate	ND		3.8	0.70	ug/Kg	✱	05/29/25 06:48	05/30/25 13:45	1
Endrin	ND		3.8	0.74	ug/Kg	✱	05/29/25 06:48	05/30/25 13:45	1
Endrin aldehyde	ND		3.8	0.96	ug/Kg	✱	05/29/25 06:48	05/30/25 13:45	1
Endrin ketone	ND		3.8	0.92	ug/Kg	✱	05/29/25 06:48	05/30/25 13:45	1
gamma-BHC (Lindane)	ND		3.8	0.69	ug/Kg	✱	05/29/25 06:48	05/30/25 13:45	1
trans-Chlordane	ND		3.8	1.2	ug/Kg	✱	05/29/25 06:48	05/30/25 13:45	1
Heptachlor	ND		3.8	0.81	ug/Kg	✱	05/29/25 06:48	05/30/25 13:45	1
Heptachlor epoxide	ND		3.8	0.97	ug/Kg	✱	05/29/25 06:48	05/30/25 13:45	1
Methoxychlor	3.5	J B	3.8	0.76	ug/Kg	✱	05/29/25 06:48	05/30/25 13:45	1
Toxaphene	ND		38	22	ug/Kg	✱	05/29/25 06:48	05/30/25 13:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	77		45 - 120	05/29/25 06:48	05/30/25 13:45	1
DCB Decachlorobiphenyl	80		45 - 120	05/29/25 06:48	05/30/25 13:45	1
Tetrachloro-m-xylene	70		30 - 124	05/29/25 06:48	05/30/25 13:45	1
Tetrachloro-m-xylene	69		30 - 124	05/29/25 06:48	05/30/25 13:45	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.20	0.039	mg/Kg	✱	05/30/25 06:41	05/30/25 17:52	1
PCB-1221	ND		0.20	0.039	mg/Kg	✱	05/30/25 06:41	05/30/25 17:52	1
PCB-1232	ND		0.20	0.039	mg/Kg	✱	05/30/25 06:41	05/30/25 17:52	1
PCB-1242	ND		0.20	0.039	mg/Kg	✱	05/30/25 06:41	05/30/25 17:52	1
PCB-1248	ND		0.20	0.039	mg/Kg	✱	05/30/25 06:41	05/30/25 17:52	1
PCB-1254	ND		0.20	0.092	mg/Kg	✱	05/30/25 06:41	05/30/25 17:52	1
PCB-1260	ND		0.20	0.092	mg/Kg	✱	05/30/25 06:41	05/30/25 17:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	105		60 - 154	05/30/25 06:41	05/30/25 17:52	1
Tetrachloro-m-xylene	111		60 - 154	05/30/25 06:41	05/30/25 17:52	1
DCB Decachlorobiphenyl	101		65 - 174	05/30/25 06:41	05/30/25 17:52	1
DCB Decachlorobiphenyl	107		65 - 174	05/30/25 06:41	05/30/25 17:52	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-15 Native

Lab Sample ID: 480-229710-13

Date Collected: 05/27/25 12:40

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 86.7

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.39	0.13	ng/g	✱	06/01/25 11:59	06/02/25 14:07	1
Perfluoropentanoic acid (PFPeA)	ND		0.19	0.048	ng/g	✱	06/01/25 11:59	06/02/25 14:07	1
Perfluorohexanoic acid (PFHxA)	ND		0.19	0.058	ng/g	✱	06/01/25 11:59	06/02/25 14:07	1
Perfluoroheptanoic acid (PFHpA)	ND		0.19	0.068	ng/g	✱	06/01/25 11:59	06/02/25 14:07	1
Perfluorooctanoic acid (PFOA)	ND		0.19	0.058	ng/g	✱	06/01/25 11:59	06/02/25 14:07	1
Perfluorononanoic acid (PFNA)	ND		0.19	0.058	ng/g	✱	06/01/25 11:59	06/02/25 14:07	1
Perfluorodecanoic acid (PFDA)	ND		0.19	0.048	ng/g	✱	06/01/25 11:59	06/02/25 14:07	1
Perfluoroundecanoic acid (PFUnA)	ND		0.19	0.048	ng/g	✱	06/01/25 11:59	06/02/25 14:07	1
Perfluorododecanoic acid (PFDoA)	ND		0.19	0.048	ng/g	✱	06/01/25 11:59	06/02/25 14:07	1
Perfluorotridecanoic acid (PFTriDA)	ND		0.19	0.068	ng/g	✱	06/01/25 11:59	06/02/25 14:07	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.19	0.068	ng/g	✱	06/01/25 11:59	06/02/25 14:07	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.19	0.068	ng/g	✱	06/01/25 11:59	06/02/25 14:07	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.19	0.058	ng/g	✱	06/01/25 11:59	06/02/25 14:07	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.19	0.048	ng/g	✱	06/01/25 11:59	06/02/25 14:07	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.19	0.068	ng/g	✱	06/01/25 11:59	06/02/25 14:07	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.19	0.11	ng/g	✱	06/01/25 11:59	06/02/25 14:07	1
Perfluorononanesulfonic acid (PFNS)	ND		0.19	0.068	ng/g	✱	06/01/25 11:59	06/02/25 14:07	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.19	0.048	ng/g	✱	06/01/25 11:59	06/02/25 14:07	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.19	0.058	ng/g	✱	06/01/25 11:59	06/02/25 14:07	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.39	0.096	ng/g	✱	06/01/25 11:59	06/02/25 14:07	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.39	0.13	ng/g	✱	06/01/25 11:59	06/02/25 14:07	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.39	0.13	ng/g	✱	06/01/25 11:59	06/02/25 14:07	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.19	0.087	ng/g	✱	06/01/25 11:59	06/02/25 14:07	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.19	0.087	ng/g	✱	06/01/25 11:59	06/02/25 14:07	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.19	0.096	ng/g	✱	06/01/25 11:59	06/02/25 14:07	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.19	0.077	ng/g	✱	06/01/25 11:59	06/02/25 14:07	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.19	0.11	ng/g	✱	06/01/25 11:59	06/02/25 14:07	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		0.96	0.29	ng/g	✱	06/01/25 11:59	06/02/25 14:07	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		0.96	0.29	ng/g	✱	06/01/25 11:59	06/02/25 14:07	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.19	0.11	ng/g	✱	06/01/25 11:59	06/02/25 14:07	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.19	0.058	ng/g	✱	06/01/25 11:59	06/02/25 14:07	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.19	0.068	ng/g	✱	06/01/25 11:59	06/02/25 14:07	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.19	0.048	ng/g	✱	06/01/25 11:59	06/02/25 14:07	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.19	0.068	ng/g	✱	06/01/25 11:59	06/02/25 14:07	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	ND		0.19	0.087	ng/g	✱	06/01/25 11:59	06/02/25 14:07	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-15 Native

Lab Sample ID: 480-229710-13

Date Collected: 05/27/25 12:40

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 86.7

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.19	0.077	ng/g	☼	06/01/25 11:59	06/02/25 14:07	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	ND		0.19	0.048	ng/g	☼	06/01/25 11:59	06/02/25 14:07	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.39	0.19	ng/g	☼	06/01/25 11:59	06/02/25 14:07	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		0.96	0.48	ng/g	☼	06/01/25 11:59	06/02/25 14:07	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		0.96	0.39	ng/g	☼	06/01/25 11:59	06/02/25 14:07	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4-PFBA	118		8 - 130				06/01/25 11:59	06/02/25 14:07	1
13C5-PFPeA	124		35 - 130				06/01/25 11:59	06/02/25 14:07	1
13C5-PFHxA	121		40 - 130				06/01/25 11:59	06/02/25 14:07	1
13C4-PFHpA	120		40 - 130				06/01/25 11:59	06/02/25 14:07	1
13C8-PFOA	117		40 - 130				06/01/25 11:59	06/02/25 14:07	1
13C9-PFNA	111		40 - 130				06/01/25 11:59	06/02/25 14:07	1
13C6-PFDA	108		40 - 130				06/01/25 11:59	06/02/25 14:07	1
13C7-PFUnA	110		40 - 130				06/01/25 11:59	06/02/25 14:07	1
13C2-PFTeDA	88.1		20 - 130				06/01/25 11:59	06/02/25 14:07	1
13C3-PFBS	112		40 - 135				06/01/25 11:59	06/02/25 14:07	1
13C3-PFHxS	108		40 - 130				06/01/25 11:59	06/02/25 14:07	1
13C8-PFOS	94.4		40 - 130				06/01/25 11:59	06/02/25 14:07	1
13C8-PFOSA	96.9		40 - 130				06/01/25 11:59	06/02/25 14:07	1
d3-NMeFOSAA	95.2		40 - 135				06/01/25 11:59	06/02/25 14:07	1
d5-NEtFOSAA	129		40 - 150				06/01/25 11:59	06/02/25 14:07	1
13C2 4:2 FTS	121		40 - 165				06/01/25 11:59	06/02/25 14:07	1
13C2 6:2 FTS	143		40 - 215				06/01/25 11:59	06/02/25 14:07	1
13C2 8:2 FTS	118		40 - 275				06/01/25 11:59	06/02/25 14:07	1
13C3-HFPO-DA	124		40 - 130				06/01/25 11:59	06/02/25 14:07	1
D7-NMeFOSE	51.1		20 - 130				06/01/25 11:59	06/02/25 14:07	1
D9-NEtFOSE	44.5		15 - 130				06/01/25 11:59	06/02/25 14:07	1
d5-NEtPFOSA	62.3		10 - 130				06/01/25 11:59	06/02/25 14:07	1
d3-NMePFOSA	71.7		10 - 130				06/01/25 11:59	06/02/25 14:07	1
13C2 PFDaA	103		40 - 130				06/01/25 11:59	06/02/25 14:07	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000		11.0	9.5	mg/Kg	☼	05/28/25 15:39	05/29/25 19:39	1
Antimony	0.79	J	16.5	0.58	mg/Kg	☼	05/28/25 15:39	05/29/25 19:39	1
Arsenic	8.9		2.2	0.97	mg/Kg	☼	05/28/25 15:39	05/29/25 19:39	1
Barium	85.3		0.55	0.15	mg/Kg	☼	05/28/25 15:39	05/29/25 19:39	1
Beryllium	0.55	^5-	0.22	0.044	mg/Kg	☼	05/28/25 15:39	05/29/25 19:39	1
Cadmium	0.22		0.22	0.077	mg/Kg	☼	05/28/25 15:39	05/29/25 19:39	1
Calcium	4730	^5-	54.8	29.6	mg/Kg	☼	05/28/25 15:39	05/29/25 19:39	1
Chromium	15.2	^5-	0.55	0.39	mg/Kg	☼	05/28/25 15:39	05/29/25 19:39	1
Cobalt	14.2		0.55	0.11	mg/Kg	☼	05/28/25 15:39	05/29/25 19:39	1
Copper	42.4		1.1	0.63	mg/Kg	☼	05/28/25 15:39	05/29/25 19:39	1
Iron	24700		11.0	9.3	mg/Kg	☼	05/28/25 15:39	05/30/25 11:58	1
Lead	19.5		1.1	0.50	mg/Kg	☼	05/28/25 15:39	05/29/25 19:39	1
Magnesium	4420		21.9	9.3	mg/Kg	☼	05/28/25 15:39	05/29/25 19:39	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-15 Native

Lab Sample ID: 480-229710-13

Date Collected: 05/27/25 12:40

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 86.7

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	247		1.1	0.31	mg/Kg	✱	05/28/25 15:39	05/30/25 11:58	1
Nickel	33.6	^5-	5.5	0.27	mg/Kg	✱	05/28/25 15:39	05/29/25 19:39	1
Potassium	2210		32.9	26.6	mg/Kg	✱	05/28/25 15:39	05/29/25 19:39	1
Selenium	ND		4.4	0.88	mg/Kg	✱	05/28/25 15:39	05/29/25 19:39	1
Silver	ND	^5-	0.66	0.22	mg/Kg	✱	05/28/25 15:39	05/29/25 19:39	1
Sodium	88.9	J	154	67.2	mg/Kg	✱	05/28/25 15:39	05/29/25 19:39	1
Thallium	1.0	J	6.6	0.83	mg/Kg	✱	05/28/25 15:39	05/29/25 19:39	1
Vanadium	17.4	^5-	0.55	0.14	mg/Kg	✱	05/28/25 15:39	05/29/25 19:39	1
Zinc	97.0	^5-	2.2	1.1	mg/Kg	✱	05/28/25 15:39	05/29/25 19:39	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	J	0.024	0.0056	mg/Kg	✱	05/30/25 13:38	05/30/25 15:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.98	0.47	mg/Kg	✱	05/31/25 12:17	05/31/25 17:27	1

Client Sample ID: RI-BH-16 Fill

Lab Sample ID: 480-229710-14

Date Collected: 05/27/25 13:00

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 84.6

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.8	0.42	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
1,1,2,2-Tetrachloroethane	ND	vs	5.8	0.95	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.8	1.3	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
1,1,2-Trichloroethane	ND	vs	5.8	0.76	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
1,1-Dichloroethane	ND	vs	5.8	0.71	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
1,1-Dichloroethene	ND	vs	5.8	0.71	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
1,2,4-Trichlorobenzene	ND	vs	5.8	0.35	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.8	2.9	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
1,2-Dichlorobenzene	ND	vs	5.8	0.46	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
1,2-Dichloroethane	ND	vs	5.8	0.29	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
1,2-Dichloropropane	ND	vs	5.8	2.9	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
1,3-Dichlorobenzene	ND	vs	5.8	0.30	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
1,4-Dichlorobenzene	ND	vs	5.8	0.82	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
2-Butanone (MEK)	ND	vs	29	2.1	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
2-Hexanone	ND	vs	29	2.9	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
4-Methyl-2-pentanone (MIBK)	ND	vs	29	1.9	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
Acetone	ND	vs	29	4.9	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
Benzene	ND	vs	5.8	0.29	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
Bromoform	ND	vs	5.8	2.9	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
Bromomethane	ND	vs	5.8	0.53	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
Carbon disulfide	ND	vs	5.8	2.9	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
Carbon tetrachloride	ND	vs	5.8	0.57	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
Chlorobenzene	ND	vs	5.8	0.77	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
Dibromochloromethane	ND	vs	5.8	0.75	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
Chloroethane	ND	vs	5.8	1.3	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
Chloroform	0.60	J vs	5.8	0.36	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-16 Fill

Lab Sample ID: 480-229710-14

Date Collected: 05/27/25 13:00

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 84.6

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	vs	5.8	0.35	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
cis-1,2-Dichloroethene	ND	vs	5.8	0.75	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
Cyclohexane	ND	vs	5.8	0.82	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
Bromodichloromethane	ND	vs	5.8	0.78	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
Dichlorodifluoromethane	ND	vs	5.8	0.48	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
Ethylbenzene	ND	vs	5.8	0.40	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
1,2-Dibromoethane	ND	vs	5.8	0.75	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
Isopropylbenzene	ND	vs	5.8	0.88	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
Methyl acetate	ND	vs	29	3.5	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
Methyl tert-butyl ether	ND	vs	5.8	0.57	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
Methylcyclohexane	ND	vs	5.8	0.89	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
Methylene Chloride	5.8	B vs	5.8	2.7	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
Tetrachloroethene	ND	vs	5.8	0.78	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
Toluene	ND	vs	5.8	0.44	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
trans-1,2-Dichloroethene	ND	vs	5.8	0.60	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
trans-1,3-Dichloropropene	ND	vs	5.8	2.6	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
Trichloroethene	ND	vs	5.8	1.3	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
Trichlorofluoromethane	ND	vs	5.8	0.55	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
Vinyl chloride	ND	vs	5.8	0.71	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
Xylenes, Total	ND	vs	12	0.98	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
cis-1,3-Dichloropropene	ND	vs	5.8	0.84	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1
Styrene	ND	vs	5.8	0.29	ug/Kg	✱	05/28/25 18:17	05/29/25 04:47	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	✱		N/A	05/28/25 18:17	05/29/25 04:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		64 - 126	05/28/25 18:17	05/29/25 04:47	1
4-Bromofluorobenzene (Surr)	105		72 - 126	05/28/25 18:17	05/29/25 04:47	1
Toluene-d8 (Surr)	91		71 - 125	05/28/25 18:17	05/29/25 04:47	1
Dibromofluoromethane (Surr)	107		60 - 140	05/28/25 18:17	05/29/25 04:47	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		120	44	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
2,4,5-Trichlorophenol	ND		200	40	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
2,4,6-Trichlorophenol	ND		200	30	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
2,4-Dichlorophenol	ND		200	39	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
2,4-Dimethylphenol	ND		200	42	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
2,4-Dinitrophenol	ND		2000	38	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
2,4-Dinitrotoluene	ND		200	27	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
2,6-Dinitrotoluene	ND		200	28	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
2-Chloronaphthalene	ND		200	37	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
2-Chlorophenol	ND		200	31	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
2-Methylnaphthalene	130	J	200	31	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
2-Methylphenol	ND		200	32	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
2-Nitroaniline	ND		390	34	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
2-Nitrophenol	ND		200	23	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
3,3'-Dichlorobenzidine	ND		390	58	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
3-Nitroaniline	ND		390	28	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1

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Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-16 Fill

Lab Sample ID: 480-229710-14

Date Collected: 05/27/25 13:00

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 84.6

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		390	44	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
4-Bromophenyl phenyl ether	ND		200	34	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
4-Chloro-3-methylphenol	ND		200	41	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
4-Chloroaniline	ND		200	29	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
4-Chlorophenyl phenyl ether	ND		200	42	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
4-Methylphenol	37	J	390	36	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
4-Nitroaniline	ND		390	29	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
4-Nitrophenol	ND		390	54	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
Acenaphthene	ND		200	37	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
Acenaphthylene	55	J	200	38	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
Acetophenone	ND		200	35	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
Anthracene	65	J	200	37	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
Atrazine	ND		200	67	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
Benzaldehyde	ND		200	150	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
Benzo[a]anthracene	310		200	27	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
Benzo[a]pyrene	290		200	34	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
Benzo[b]fluoranthene	490		200	27	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
Benzo[g,h,i]perylene	260		200	35	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
Benzo[k]fluoranthene	150	J	200	45	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
Biphenyl	ND		200	37	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
bis (2-chloroisopropyl) ether	ND		200	41	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
Bis(2-chloroethoxy)methane	ND		200	38	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
Bis(2-chloroethyl)ether	ND		200	38	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
Bis(2-ethylhexyl) phthalate	110	J	200	43	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
Butyl benzyl phthalate	ND		200	37	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
Caprolactam	ND		200	46	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
Carbazole	ND		200	39	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
Chrysene	530		200	48	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
Dibenz(a,h)anthracene	98	J	200	40	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
Dibenzofuran	ND		200	35	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
Diethyl phthalate	ND		200	36	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
Dimethyl phthalate	ND		200	38	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
Di-n-butyl phthalate	ND		200	45	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
Di-n-octyl phthalate	ND		200	38	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
Fluoranthene	590		200	36	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
Fluorene	ND		200	36	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
Hexachlorobenzene	ND		200	38	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
Hexachlorobutadiene	ND		200	30	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
Hexachlorocyclopentadiene	ND		390	87	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
Hexachloroethane	ND		200	36	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
Indeno[1,2,3-cd]pyrene	200		200	30	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
Isophorone	ND		200	41	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
Naphthalene	78	J	200	33	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
Nitrobenzene	ND		200	33	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
N-Nitrosodi-n-propylamine	ND		200	45	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
N-Nitrosodiphenylamine	ND		200	33	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
Pentachlorophenol	ND		390	63	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
Phenanthrene	430		200	37	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1
Phenol	ND		200	36	ug/Kg	✱	05/29/25 13:50	05/30/25 17:36	1

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Lab Sample ID: 480-229710-14

Date Collected: 05/27/25 13:00

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 84.6

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	430		200	38	ug/Kg	☼	05/29/25 13:50	05/30/25 17:36	1
Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	18000	T J	ug/Kg	☼	2.00	N/A	05/29/25 13:50	05/30/25 17:36	1
Unknown	4000	T J	ug/Kg	☼	3.45	N/A	05/29/25 13:50	05/30/25 17:36	1
Decane	580	T J N	ug/Kg	☼	10.38	124-18-5	05/29/25 13:50	05/30/25 17:36	1
Heptadecane	340	T J N	ug/Kg	☼	11.64	629-78-7	05/29/25 13:50	05/30/25 17:36	1
Unknown	360	T J	ug/Kg	☼	12.91	N/A	05/29/25 13:50	05/30/25 17:36	1
Unknown	360	T J	ug/Kg	☼	13.19	N/A	05/29/25 13:50	05/30/25 17:36	1
Unknown	520	T J	ug/Kg	☼	13.48	N/A	05/29/25 13:50	05/30/25 17:36	1
Unknown	720	T J	ug/Kg	☼	13.73	N/A	05/29/25 13:50	05/30/25 17:36	1
Unknown	320	T J	ug/Kg	☼	14.08	N/A	05/29/25 13:50	05/30/25 17:36	1
1-Octadecene	890	T J N	ug/Kg	☼	14.23	112-88-9	05/29/25 13:50	05/30/25 17:36	1
Unknown	430	T J	ug/Kg	☼	14.86	N/A	05/29/25 13:50	05/30/25 17:36	1
Unknown	380	T J	ug/Kg	☼	15.19	N/A	05/29/25 13:50	05/30/25 17:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	87		10 - 140				05/29/25 13:50	05/30/25 17:36	1
2-Fluorobiphenyl (Surr)	83		29 - 120				05/29/25 13:50	05/30/25 17:36	1
2-Fluorophenol (Surr)	83		18 - 120				05/29/25 13:50	05/30/25 17:36	1
Nitrobenzene-d5 (Surr)	86		22 - 120				05/29/25 13:50	05/30/25 17:36	1
Phenol-d5 (Surr)	86		23 - 120				05/29/25 13:50	05/30/25 17:36	1
p-Terphenyl-d14 (Surr)	81		28 - 124				05/29/25 13:50	05/30/25 17:36	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	3.8	J	3.9	0.75	ug/Kg	☼	05/29/25 06:48	05/30/25 14:04	1
4,4'-DDE	6.6		3.9	0.82	ug/Kg	☼	05/29/25 06:48	05/30/25 14:04	1
4,4'-DDT	17		3.9	0.91	ug/Kg	☼	05/29/25 06:48	05/30/25 14:04	1
beta-BHC	ND		3.9	0.70	ug/Kg	☼	05/29/25 06:48	05/30/25 14:04	1
cis-Chlordane	ND		3.9	1.9	ug/Kg	☼	05/29/25 06:48	05/30/25 14:04	1
alpha-BHC	ND		3.9	0.70	ug/Kg	☼	05/29/25 06:48	05/30/25 14:04	1
Aldrin	ND		3.9	0.95	ug/Kg	☼	05/29/25 06:48	05/30/25 14:04	1
delta-BHC	ND		3.9	0.72	ug/Kg	☼	05/29/25 06:48	05/30/25 14:04	1
Dieldrin	ND		3.9	0.93	ug/Kg	☼	05/29/25 06:48	05/30/25 14:04	1
Endosulfan I	ND		3.9	0.75	ug/Kg	☼	05/29/25 06:48	05/30/25 14:04	1
Endosulfan II	1.1	J	3.9	0.70	ug/Kg	☼	05/29/25 06:48	05/30/25 14:04	1
Endosulfan sulfate	ND		3.9	0.72	ug/Kg	☼	05/29/25 06:48	05/30/25 14:04	1
Endrin	ND		3.9	0.77	ug/Kg	☼	05/29/25 06:48	05/30/25 14:04	1
Endrin aldehyde	ND		3.9	0.99	ug/Kg	☼	05/29/25 06:48	05/30/25 14:04	1
Endrin ketone	3.8	J	3.9	0.95	ug/Kg	☼	05/29/25 06:48	05/30/25 14:04	1
gamma-BHC (Lindane)	ND		3.9	0.71	ug/Kg	☼	05/29/25 06:48	05/30/25 14:04	1
trans-Chlordane	1.4	J	3.9	1.2	ug/Kg	☼	05/29/25 06:48	05/30/25 14:04	1
Heptachlor	ND		3.9	0.84	ug/Kg	☼	05/29/25 06:48	05/30/25 14:04	1
Heptachlor epoxide	ND		3.9	1.0	ug/Kg	☼	05/29/25 06:48	05/30/25 14:04	1
Methoxychlor	4.2	B	3.9	0.79	ug/Kg	☼	05/29/25 06:48	05/30/25 14:04	1
Toxaphene	ND		39	23	ug/Kg	☼	05/29/25 06:48	05/30/25 14:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	113		45 - 120				05/29/25 06:48	05/30/25 14:04	1

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Date Collected: 05/27/25 13:00

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 84.6

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	128	S1+	45 - 120	05/29/25 06:48	05/30/25 14:04	1
Tetrachloro-m-xylene	65		30 - 124	05/29/25 06:48	05/30/25 14:04	1
Tetrachloro-m-xylene	62		30 - 124	05/29/25 06:48	05/30/25 14:04	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.21	0.042	mg/Kg	✱	05/30/25 06:41	05/30/25 18:11	1
PCB-1221	ND		0.21	0.042	mg/Kg	✱	05/30/25 06:41	05/30/25 18:11	1
PCB-1232	ND		0.21	0.042	mg/Kg	✱	05/30/25 06:41	05/30/25 18:11	1
PCB-1242	ND		0.21	0.042	mg/Kg	✱	05/30/25 06:41	05/30/25 18:11	1
PCB-1248	ND		0.21	0.042	mg/Kg	✱	05/30/25 06:41	05/30/25 18:11	1
PCB-1254	ND		0.21	0.099	mg/Kg	✱	05/30/25 06:41	05/30/25 18:11	1
PCB-1260	ND		0.21	0.099	mg/Kg	✱	05/30/25 06:41	05/30/25 18:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	102		60 - 154	05/30/25 06:41	05/30/25 18:11	1
Tetrachloro-m-xylene	109		60 - 154	05/30/25 06:41	05/30/25 18:11	1
DCB Decachlorobiphenyl	99		65 - 174	05/30/25 06:41	05/30/25 18:11	1
DCB Decachlorobiphenyl	105		65 - 174	05/30/25 06:41	05/30/25 18:11	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.15	J	0.40	0.13	ng/g	✱	06/01/25 11:59	06/02/25 14:47	1
Perfluoropentanoic acid (PFPeA)	0.071	J	0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 14:47	1
Perfluorohexanoic acid (PFHxA)	0.071	J	0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 14:47	1
Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 14:47	1
Perfluorooctanoic acid (PFOA)	0.18	J	0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 14:47	1
Perfluorononanoic acid (PFNA)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 14:47	1
Perfluorodecanoic acid (PFDA)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 14:47	1
Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 14:47	1
Perfluorododecanoic acid (PFDoA)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 14:47	1
Perfluorotridecanoic acid (PFTriDA)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 14:47	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 14:47	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 14:47	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 14:47	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 14:47	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 14:47	1
Perfluorooctanesulfonic acid (PFOS)	0.34		0.20	0.11	ng/g	✱	06/01/25 11:59	06/02/25 14:47	1
Perfluorononanesulfonic acid (PFNS)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 14:47	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 14:47	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 14:47	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.40	0.099	ng/g	✱	06/01/25 11:59	06/02/25 14:47	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.40	0.13	ng/g	✱	06/01/25 11:59	06/02/25 14:47	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.40	0.13	ng/g	✱	06/01/25 11:59	06/02/25 14:47	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-16 Fill

Lab Sample ID: 480-229710-14

Date Collected: 05/27/25 13:00

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 84.6

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.089	ng/g	✱	06/01/25 11:59	06/02/25 14:47	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.20	0.089	ng/g	✱	06/01/25 11:59	06/02/25 14:47	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.20	0.099	ng/g	✱	06/01/25 11:59	06/02/25 14:47	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.20	0.079	ng/g	✱	06/01/25 11:59	06/02/25 14:47	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.20	0.11	ng/g	✱	06/01/25 11:59	06/02/25 14:47	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		0.99	0.30	ng/g	✱	06/01/25 11:59	06/02/25 14:47	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		0.99	0.30	ng/g	✱	06/01/25 11:59	06/02/25 14:47	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.20	0.11	ng/g	✱	06/01/25 11:59	06/02/25 14:47	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 14:47	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 14:47	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 14:47	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 14:47	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.20	0.089	ng/g	✱	06/01/25 11:59	06/02/25 14:47	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.20	0.079	ng/g	✱	06/01/25 11:59	06/02/25 14:47	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 14:47	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.40	0.20	ng/g	✱	06/01/25 11:59	06/02/25 14:47	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		0.99	0.49	ng/g	✱	06/01/25 11:59	06/02/25 14:47	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		0.99	0.40	ng/g	✱	06/01/25 11:59	06/02/25 14:47	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	93.6		8 - 130	06/01/25 11:59	06/02/25 14:47	1
13C5-PFPeA	99.2		35 - 130	06/01/25 11:59	06/02/25 14:47	1
13C5-PFHxA	97.5		40 - 130	06/01/25 11:59	06/02/25 14:47	1
13C4-PFHpA	97.7		40 - 130	06/01/25 11:59	06/02/25 14:47	1
13C8-PFOA	92.2		40 - 130	06/01/25 11:59	06/02/25 14:47	1
13C9-PFNA	92.0		40 - 130	06/01/25 11:59	06/02/25 14:47	1
13C6-PFDA	82.8		40 - 130	06/01/25 11:59	06/02/25 14:47	1
13C7-PFUnA	84.5		40 - 130	06/01/25 11:59	06/02/25 14:47	1
13C2-PFTeDA	71.6		20 - 130	06/01/25 11:59	06/02/25 14:47	1
13C3-PFBS	90.1		40 - 135	06/01/25 11:59	06/02/25 14:47	1
13C3-PFHxS	85.6		40 - 130	06/01/25 11:59	06/02/25 14:47	1
13C8-PFOS	73.7		40 - 130	06/01/25 11:59	06/02/25 14:47	1
13C8-PFOSA	78.2		40 - 130	06/01/25 11:59	06/02/25 14:47	1
d3-NMeFOSAA	84.9		40 - 135	06/01/25 11:59	06/02/25 14:47	1
d5-NEtFOSAA	113		40 - 150	06/01/25 11:59	06/02/25 14:47	1
13C2 4:2 FTS	121		40 - 165	06/01/25 11:59	06/02/25 14:47	1
13C2 6:2 FTS	124		40 - 215	06/01/25 11:59	06/02/25 14:47	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-16 Fill

Lab Sample ID: 480-229710-14

Date Collected: 05/27/25 13:00

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 84.6

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 8:2 FTS	101		40 - 275	06/01/25 11:59	06/02/25 14:47	1
13C3-HFPO-DA	96.1		40 - 130	06/01/25 11:59	06/02/25 14:47	1
D7-NMeFOSE	51.7		20 - 130	06/01/25 11:59	06/02/25 14:47	1
D9-NEtFOSE	42.2		15 - 130	06/01/25 11:59	06/02/25 14:47	1
d5-NEtPFOSA	58.0		10 - 130	06/01/25 11:59	06/02/25 14:47	1
d3-NMePFOSA	61.9		10 - 130	06/01/25 11:59	06/02/25 14:47	1
13C2 PFDoA	79.0		40 - 130	06/01/25 11:59	06/02/25 14:47	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13000		11.6	10	mg/Kg	☆	05/28/25 15:39	05/29/25 19:41	1
Antimony	1.2	J	17.4	0.61	mg/Kg	☆	05/28/25 15:39	05/29/25 19:41	1
Arsenic	12.2		2.3	1.0	mg/Kg	☆	05/28/25 15:39	05/29/25 19:41	1
Barium	205		0.58	0.16	mg/Kg	☆	05/28/25 15:39	05/29/25 19:41	1
Beryllium	1.4	^5-	0.23	0.046	mg/Kg	☆	05/28/25 15:39	05/29/25 19:41	1
Cadmium	0.33		0.23	0.081	mg/Kg	☆	05/28/25 15:39	05/29/25 19:41	1
Calcium	26000		57.9	31.2	mg/Kg	☆	05/28/25 15:39	05/30/25 12:00	1
Chromium	21.5	^5-	0.58	0.42	mg/Kg	☆	05/28/25 15:39	05/29/25 19:41	1
Cobalt	8.3		0.58	0.12	mg/Kg	☆	05/28/25 15:39	05/29/25 19:41	1
Copper	53.7		1.2	0.66	mg/Kg	☆	05/28/25 15:39	05/29/25 19:41	1
Iron	23500		11.6	9.8	mg/Kg	☆	05/28/25 15:39	05/30/25 12:00	1
Lead	409		1.2	0.53	mg/Kg	☆	05/28/25 15:39	05/29/25 19:41	1
Magnesium	5880		23.1	9.8	mg/Kg	☆	05/28/25 15:39	05/29/25 19:41	1
Manganese	778		1.2	0.32	mg/Kg	☆	05/28/25 15:39	05/30/25 12:00	1
Nickel	22.1	^5-	5.8	0.29	mg/Kg	☆	05/28/25 15:39	05/29/25 19:41	1
Potassium	1990		34.7	28.0	mg/Kg	☆	05/28/25 15:39	05/29/25 19:41	1
Selenium	2.1	J	4.6	0.93	mg/Kg	☆	05/28/25 15:39	05/29/25 19:41	1
Silver	ND	^5-	0.69	0.23	mg/Kg	☆	05/28/25 15:39	05/29/25 19:41	1
Sodium	248		162	70.9	mg/Kg	☆	05/28/25 15:39	05/29/25 19:41	1
Thallium	ND		6.9	0.88	mg/Kg	☆	05/28/25 15:39	05/29/25 19:41	1
Vanadium	21.0	^5-	0.58	0.15	mg/Kg	☆	05/28/25 15:39	05/29/25 19:41	1
Zinc	122	^5-	2.3	1.2	mg/Kg	☆	05/28/25 15:39	05/29/25 19:41	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.088		0.023	0.0052	mg/Kg	☆	05/30/25 13:38	05/30/25 15:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		1.1	0.55	mg/Kg	☆	05/31/25 12:17	05/31/25 17:28	1

Client Sample ID: RI-BH-17 Fill

Lab Sample ID: 480-229710-15

Date Collected: 05/27/25 13:20

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 81.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	6.0	0.43	ug/Kg	☆	05/28/25 18:17	05/29/25 05:11	1
1,1,2,2-Tetrachloroethane	ND	vs	6.0	0.97	ug/Kg	☆	05/28/25 18:17	05/29/25 05:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.0	1.4	ug/Kg	☆	05/28/25 18:17	05/29/25 05:11	1
1,1,2-Trichloroethane	ND	vs	6.0	0.78	ug/Kg	☆	05/28/25 18:17	05/29/25 05:11	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-17 Fill

Lab Sample ID: 480-229710-15

Date Collected: 05/27/25 13:20

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 81.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND	vs	6.0	0.73	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1
1,1-Dichloroethene	ND	vs	6.0	0.73	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1
1,2,4-Trichlorobenzene	ND	vs	6.0	0.36	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1
1,2-Dibromo-3-Chloropropane	ND	vs	6.0	3.0	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1
1,2-Dichlorobenzene	ND	vs	6.0	0.47	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1
1,2-Dichloroethane	ND	vs	6.0	0.30	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1
1,2-Dichloropropane	ND	vs	6.0	3.0	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1
1,3-Dichlorobenzene	ND	vs	6.0	0.31	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1
1,4-Dichlorobenzene	ND	vs	6.0	0.84	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1
2-Butanone (MEK)	ND	vs	30	2.2	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1
2-Hexanone	ND	vs	30	3.0	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1
4-Methyl-2-pentanone (MIBK)	ND	vs	30	2.0	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1
Acetone	13	J vs	30	5.0	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1
Benzene	ND	vs	6.0	0.29	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1
Bromoform	ND	vs	6.0	3.0	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1
Bromomethane	ND	vs	6.0	0.54	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1
Carbon disulfide	ND	vs	6.0	3.0	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1
Carbon tetrachloride	ND	vs	6.0	0.58	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1
Chlorobenzene	ND	vs	6.0	0.79	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1
Dibromochloromethane	ND	vs	6.0	0.77	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1
Chloroethane	ND	vs	6.0	1.4	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1
Chloroform	0.54	J vs	6.0	0.37	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1
Chloromethane	ND	vs	6.0	0.36	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1
cis-1,2-Dichloroethene	ND	vs	6.0	0.77	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1
Cyclohexane	ND	vs	6.0	0.84	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1
Bromodichloromethane	ND	vs	6.0	0.80	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1
Dichlorodifluoromethane	ND	vs	6.0	0.49	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1
Ethylbenzene	ND	vs	6.0	0.41	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1
1,2-Dibromoethane	ND	vs	6.0	0.77	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1
Isopropylbenzene	ND	vs	6.0	0.90	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1
Methyl acetate	ND	vs	30	3.6	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1
Methyl tert-butyl ether	ND	vs	6.0	0.59	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1
Methylcyclohexane	ND	vs	6.0	0.91	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1
Methylene Chloride	6.8	B vs	6.0	2.8	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1
Tetrachloroethene	ND	vs	6.0	0.80	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1
Toluene	ND	vs	6.0	0.45	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1
trans-1,2-Dichloroethene	ND	vs	6.0	0.62	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1
trans-1,3-Dichloropropene	ND	vs	6.0	2.6	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1
Trichloroethene	ND	vs	6.0	1.3	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1
Trichlorofluoromethane	ND	vs	6.0	0.57	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1
Vinyl chloride	ND	vs	6.0	0.73	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1
Xylenes, Total	ND	vs	12	1.0	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1
cis-1,3-Dichloropropene	ND	vs	6.0	0.86	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1
Styrene	ND	vs	6.0	0.30	ug/Kg	✱	05/28/25 18:17	05/29/25 05:11	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	✱		N/A	05/28/25 18:17	05/29/25 05:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		64 - 126	05/28/25 18:17	05/29/25 05:11	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-17 Fill

Lab Sample ID: 480-229710-15

Date Collected: 05/27/25 13:20

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 81.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		72 - 126	05/28/25 18:17	05/29/25 05:11	1
Toluene-d8 (Surr)	90		71 - 125	05/28/25 18:17	05/29/25 05:11	1
Dibromofluoromethane (Surr)	106		60 - 140	05/28/25 18:17	05/29/25 05:11	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		120	45	ug/Kg	✱	05/29/25 13:50	05/30/25 18:01	1
2,4,5-Trichlorophenol	ND		210	42	ug/Kg	✱	05/29/25 13:50	05/30/25 18:01	1
2,4,6-Trichlorophenol	ND		210	31	ug/Kg	✱	05/29/25 13:50	05/30/25 18:01	1
2,4-Dichlorophenol	ND		210	40	ug/Kg	✱	05/29/25 13:50	05/30/25 18:01	1
2,4-Dimethylphenol	ND		210	43	ug/Kg	✱	05/29/25 13:50	05/30/25 18:01	1
2,4-Dinitrophenol	ND		2000	39	ug/Kg	✱	05/29/25 13:50	05/30/25 18:01	1
2,4-Dinitrotoluene	ND		210	28	ug/Kg	✱	05/29/25 13:50	05/30/25 18:01	1
2,6-Dinitrotoluene	ND		210	29	ug/Kg	✱	05/29/25 13:50	05/30/25 18:01	1
2-Chloronaphthalene	ND		210	38	ug/Kg	✱	05/29/25 13:50	05/30/25 18:01	1
2-Chlorophenol	ND		210	32	ug/Kg	✱	05/29/25 13:50	05/30/25 18:01	1
2-Methylnaphthalene	33	J	210	32	ug/Kg	✱	05/29/25 13:50	05/30/25 18:01	1
2-Methylphenol	ND		210	33	ug/Kg	✱	05/29/25 13:50	05/30/25 18:01	1
2-Nitroaniline	ND		400	35	ug/Kg	✱	05/29/25 13:50	05/30/25 18:01	1
2-Nitrophenol	ND		210	23	ug/Kg	✱	05/29/25 13:50	05/30/25 18:01	1
3,3'-Dichlorobenzidine	ND		400	60	ug/Kg	✱	05/29/25 13:50	05/30/25 18:01	1
3-Nitroaniline	ND		400	29	ug/Kg	✱	05/29/25 13:50	05/30/25 18:01	1
4,6-Dinitro-2-methylphenol	ND		400	45	ug/Kg	✱	05/29/25 13:50	05/30/25 18:01	1
4-Bromophenyl phenyl ether	ND		210	35	ug/Kg	✱	05/29/25 13:50	05/30/25 18:01	1
4-Chloro-3-methylphenol	ND		210	42	ug/Kg	✱	05/29/25 13:50	05/30/25 18:01	1
4-Chloroaniline	ND		210	30	ug/Kg	✱	05/29/25 13:50	05/30/25 18:01	1
4-Chlorophenyl phenyl ether	ND		210	43	ug/Kg	✱	05/29/25 13:50	05/30/25 18:01	1
4-Methylphenol	ND		400	37	ug/Kg	✱	05/29/25 13:50	05/30/25 18:01	1
4-Nitroaniline	ND		400	30	ug/Kg	✱	05/29/25 13:50	05/30/25 18:01	1
4-Nitrophenol	ND		400	56	ug/Kg	✱	05/29/25 13:50	05/30/25 18:01	1
Acenaphthene	ND		210	38	ug/Kg	✱	05/29/25 13:50	05/30/25 18:01	1
Acenaphthylene	ND		210	40	ug/Kg	✱	05/29/25 13:50	05/30/25 18:01	1
Acetophenone	ND		210	36	ug/Kg	✱	05/29/25 13:50	05/30/25 18:01	1
Anthracene	62	J	210	38	ug/Kg	✱	05/29/25 13:50	05/30/25 18:01	1
Atrazine	ND		210	70	ug/Kg	✱	05/29/25 13:50	05/30/25 18:01	1
Benzaldehyde	ND		210	160	ug/Kg	✱	05/29/25 13:50	05/30/25 18:01	1
Benzo[a]anthracene	150	J	210	28	ug/Kg	✱	05/29/25 13:50	05/30/25 18:01	1
Benzo[a]pyrene	150	J	210	35	ug/Kg	✱	05/29/25 13:50	05/30/25 18:01	1
Benzo[b]fluoranthene	200	J	210	28	ug/Kg	✱	05/29/25 13:50	05/30/25 18:01	1
Benzo[g,h,i]perylene	120	J	210	36	ug/Kg	✱	05/29/25 13:50	05/30/25 18:01	1
Benzo[k]fluoranthene	98	J	210	46	ug/Kg	✱	05/29/25 13:50	05/30/25 18:01	1
Biphenyl	ND		210	39	ug/Kg	✱	05/29/25 13:50	05/30/25 18:01	1
bis (2-chloroisopropyl) ether	ND		210	42	ug/Kg	✱	05/29/25 13:50	05/30/25 18:01	1
Bis(2-chloroethoxy)methane	ND		210	39	ug/Kg	✱	05/29/25 13:50	05/30/25 18:01	1
Bis(2-chloroethyl)ether	ND		210	39	ug/Kg	✱	05/29/25 13:50	05/30/25 18:01	1
Bis(2-ethylhexyl) phthalate	ND		210	45	ug/Kg	✱	05/29/25 13:50	05/30/25 18:01	1
Butyl benzyl phthalate	ND		210	38	ug/Kg	✱	05/29/25 13:50	05/30/25 18:01	1
Caprolactam	ND		210	48	ug/Kg	✱	05/29/25 13:50	05/30/25 18:01	1
Carbazole	ND		210	40	ug/Kg	✱	05/29/25 13:50	05/30/25 18:01	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-17 Fill

Lab Sample ID: 480-229710-15

Date Collected: 05/27/25 13:20

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 81.2

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	160	J	210	50	ug/Kg	☼	05/29/25 13:50	05/30/25 18:01	1
Dibenz(a,h)anthracene	ND		210	42	ug/Kg	☼	05/29/25 13:50	05/30/25 18:01	1
Dibenzofuran	ND		210	36	ug/Kg	☼	05/29/25 13:50	05/30/25 18:01	1
Diethyl phthalate	ND		210	37	ug/Kg	☼	05/29/25 13:50	05/30/25 18:01	1
Dimethyl phthalate	ND		210	40	ug/Kg	☼	05/29/25 13:50	05/30/25 18:01	1
Di-n-butyl phthalate	ND		210	46	ug/Kg	☼	05/29/25 13:50	05/30/25 18:01	1
Di-n-octyl phthalate	ND		210	39	ug/Kg	☼	05/29/25 13:50	05/30/25 18:01	1
Fluoranthene	370		210	38	ug/Kg	☼	05/29/25 13:50	05/30/25 18:01	1
Fluorene	ND		210	38	ug/Kg	☼	05/29/25 13:50	05/30/25 18:01	1
Hexachlorobenzene	ND		210	40	ug/Kg	☼	05/29/25 13:50	05/30/25 18:01	1
Hexachlorobutadiene	ND		210	31	ug/Kg	☼	05/29/25 13:50	05/30/25 18:01	1
Hexachlorocyclopentadiene	ND		400	90	ug/Kg	☼	05/29/25 13:50	05/30/25 18:01	1
Hexachloroethane	ND		210	38	ug/Kg	☼	05/29/25 13:50	05/30/25 18:01	1
Indeno[1,2,3-cd]pyrene	87	J	210	31	ug/Kg	☼	05/29/25 13:50	05/30/25 18:01	1
Isophorone	ND		210	42	ug/Kg	☼	05/29/25 13:50	05/30/25 18:01	1
Naphthalene	140	J	210	34	ug/Kg	☼	05/29/25 13:50	05/30/25 18:01	1
Nitrobenzene	ND		210	35	ug/Kg	☼	05/29/25 13:50	05/30/25 18:01	1
N-Nitrosodi-n-propylamine	ND		210	46	ug/Kg	☼	05/29/25 13:50	05/30/25 18:01	1
N-Nitrosodiphenylamine	ND		210	34	ug/Kg	☼	05/29/25 13:50	05/30/25 18:01	1
Pentachlorophenol	ND		400	66	ug/Kg	☼	05/29/25 13:50	05/30/25 18:01	1
Phenanthrene	260		210	39	ug/Kg	☼	05/29/25 13:50	05/30/25 18:01	1
Phenol	ND		210	38	ug/Kg	☼	05/29/25 13:50	05/30/25 18:01	1
Pyrene	270		210	39	ug/Kg	☼	05/29/25 13:50	05/30/25 18:01	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	7900	T J	ug/Kg	☼	3.46	N/A	05/29/25 13:50	05/30/25 18:01	1
Unknown	470	T J	ug/Kg	☼	5.54	N/A	05/29/25 13:50	05/30/25 18:01	1
Unknown	430	T J	ug/Kg	☼	6.48	N/A	05/29/25 13:50	05/30/25 18:01	1
Unknown	510	T J	ug/Kg	☼	7.28	N/A	05/29/25 13:50	05/30/25 18:01	1
Tridecane	590	T J N	ug/Kg	☼	8.00	629-50-5	05/29/25 13:50	05/30/25 18:01	1
Tetradecane	540	T J N	ug/Kg	☼	8.67	629-59-4	05/29/25 13:50	05/30/25 18:01	1
Hexadecane	550	T J N	ug/Kg	☼	9.86	544-76-3	05/29/25 13:50	05/30/25 18:01	1
Unknown	380	T J	ug/Kg	☼	10.11	N/A	05/29/25 13:50	05/30/25 18:01	1
Heptadecane	850	T J N	ug/Kg	☼	10.38	629-78-7	05/29/25 13:50	05/30/25 18:01	1
Unknown	510	T J	ug/Kg	☼	10.85	N/A	05/29/25 13:50	05/30/25 18:01	1
Unknown	440	T J	ug/Kg	☼	11.26	N/A	05/29/25 13:50	05/30/25 18:01	1
Unknown	430	T J	ug/Kg	☼	11.64	N/A	05/29/25 13:50	05/30/25 18:01	1
Unknown	360	T J	ug/Kg	☼	11.99	N/A	05/29/25 13:50	05/30/25 18:01	1
Unknown	370	T J	ug/Kg	☼	12.32	N/A	05/29/25 13:50	05/30/25 18:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	72		10 - 140	05/29/25 13:50	05/30/25 18:01	1
2-Fluorobiphenyl (Surr)	77		29 - 120	05/29/25 13:50	05/30/25 18:01	1
2-Fluorophenol (Surr)	73		18 - 120	05/29/25 13:50	05/30/25 18:01	1
Nitrobenzene-d5 (Surr)	77		22 - 120	05/29/25 13:50	05/30/25 18:01	1
Phenol-d5 (Surr)	75		23 - 120	05/29/25 13:50	05/30/25 18:01	1
p-Terphenyl-d14 (Surr)	72		28 - 124	05/29/25 13:50	05/30/25 18:01	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-17 Fill

Lab Sample ID: 480-229710-15

Date Collected: 05/27/25 13:20

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 81.2

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.0	0.79	ug/Kg	✱	05/29/25 06:48	05/30/25 14:24	1
4,4'-DDE	1.3	J	4.0	0.85	ug/Kg	✱	05/29/25 06:48	05/30/25 14:24	1
4,4'-DDT	4.2		4.0	0.95	ug/Kg	✱	05/29/25 06:48	05/30/25 14:24	1
beta-BHC	ND		4.0	0.73	ug/Kg	✱	05/29/25 06:48	05/30/25 14:24	1
cis-Chlordane	ND		4.0	2.0	ug/Kg	✱	05/29/25 06:48	05/30/25 14:24	1
alpha-BHC	ND		4.0	0.73	ug/Kg	✱	05/29/25 06:48	05/30/25 14:24	1
Aldrin	ND		4.0	0.99	ug/Kg	✱	05/29/25 06:48	05/30/25 14:24	1
delta-BHC	ND		4.0	0.75	ug/Kg	✱	05/29/25 06:48	05/30/25 14:24	1
Dieldrin	ND		4.0	0.97	ug/Kg	✱	05/29/25 06:48	05/30/25 14:24	1
Endosulfan I	ND		4.0	0.78	ug/Kg	✱	05/29/25 06:48	05/30/25 14:24	1
Endosulfan II	ND		4.0	0.73	ug/Kg	✱	05/29/25 06:48	05/30/25 14:24	1
Endosulfan sulfate	ND		4.0	0.75	ug/Kg	✱	05/29/25 06:48	05/30/25 14:24	1
Endrin	ND		4.0	0.80	ug/Kg	✱	05/29/25 06:48	05/30/25 14:24	1
Endrin aldehyde	ND		4.0	1.0	ug/Kg	✱	05/29/25 06:48	05/30/25 14:24	1
Endrin ketone	ND		4.0	0.99	ug/Kg	✱	05/29/25 06:48	05/30/25 14:24	1
gamma-BHC (Lindane)	ND		4.0	0.74	ug/Kg	✱	05/29/25 06:48	05/30/25 14:24	1
trans-Chlordane	ND		4.0	1.3	ug/Kg	✱	05/29/25 06:48	05/30/25 14:24	1
Heptachlor	ND		4.0	0.88	ug/Kg	✱	05/29/25 06:48	05/30/25 14:24	1
Heptachlor epoxide	ND		4.0	1.0	ug/Kg	✱	05/29/25 06:48	05/30/25 14:24	1
Methoxychlor	5.7	B	4.0	0.82	ug/Kg	✱	05/29/25 06:48	05/30/25 14:24	1
Toxaphene	ND		40	24	ug/Kg	✱	05/29/25 06:48	05/30/25 14:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	76		45 - 120	05/29/25 06:48	05/30/25 14:24	1
DCB Decachlorobiphenyl	79		45 - 120	05/29/25 06:48	05/30/25 14:24	1
Tetrachloro-m-xylene	62		30 - 124	05/29/25 06:48	05/30/25 14:24	1
Tetrachloro-m-xylene	60		30 - 124	05/29/25 06:48	05/30/25 14:24	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.21	0.041	mg/Kg	✱	05/30/25 06:41	05/30/25 18:29	1
PCB-1221	ND		0.21	0.041	mg/Kg	✱	05/30/25 06:41	05/30/25 18:29	1
PCB-1232	ND		0.21	0.041	mg/Kg	✱	05/30/25 06:41	05/30/25 18:29	1
PCB-1242	ND		0.21	0.041	mg/Kg	✱	05/30/25 06:41	05/30/25 18:29	1
PCB-1248	ND		0.21	0.041	mg/Kg	✱	05/30/25 06:41	05/30/25 18:29	1
PCB-1254	ND		0.21	0.099	mg/Kg	✱	05/30/25 06:41	05/30/25 18:29	1
PCB-1260	ND		0.21	0.099	mg/Kg	✱	05/30/25 06:41	05/30/25 18:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	98		60 - 154	05/30/25 06:41	05/30/25 18:29	1
Tetrachloro-m-xylene	105		60 - 154	05/30/25 06:41	05/30/25 18:29	1
DCB Decachlorobiphenyl	98		65 - 174	05/30/25 06:41	05/30/25 18:29	1
DCB Decachlorobiphenyl	102		65 - 174	05/30/25 06:41	05/30/25 18:29	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.39	0.13	ng/g	✱	06/01/25 11:59	06/02/25 15:01	1
Perfluoropentanoic acid (PFPeA)	ND		0.19	0.049	ng/g	✱	06/01/25 11:59	06/02/25 15:01	1
Perfluorohexanoic acid (PFHxA)	ND		0.19	0.058	ng/g	✱	06/01/25 11:59	06/02/25 15:01	1
Perfluoroheptanoic acid (PFHpA)	ND		0.19	0.068	ng/g	✱	06/01/25 11:59	06/02/25 15:01	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-17 Fill

Lab Sample ID: 480-229710-15

Date Collected: 05/27/25 13:20

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 81.2

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	ND		0.19	0.058	ng/g	✱	06/01/25 11:59	06/02/25 15:01	1
Perfluorononanoic acid (PFNA)	ND		0.19	0.058	ng/g	✱	06/01/25 11:59	06/02/25 15:01	1
Perfluorodecanoic acid (PFDA)	ND		0.19	0.049	ng/g	✱	06/01/25 11:59	06/02/25 15:01	1
Perfluoroundecanoic acid (PFUnA)	ND		0.19	0.049	ng/g	✱	06/01/25 11:59	06/02/25 15:01	1
Perfluorododecanoic acid (PFDoA)	ND		0.19	0.049	ng/g	✱	06/01/25 11:59	06/02/25 15:01	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.19	0.068	ng/g	✱	06/01/25 11:59	06/02/25 15:01	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.19	0.068	ng/g	✱	06/01/25 11:59	06/02/25 15:01	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.19	0.068	ng/g	✱	06/01/25 11:59	06/02/25 15:01	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.19	0.058	ng/g	✱	06/01/25 11:59	06/02/25 15:01	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.19	0.049	ng/g	✱	06/01/25 11:59	06/02/25 15:01	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.19	0.068	ng/g	✱	06/01/25 11:59	06/02/25 15:01	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.19	0.11	ng/g	✱	06/01/25 11:59	06/02/25 15:01	1
Perfluorononanesulfonic acid (PFNS)	ND		0.19	0.068	ng/g	✱	06/01/25 11:59	06/02/25 15:01	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.19	0.049	ng/g	✱	06/01/25 11:59	06/02/25 15:01	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.19	0.058	ng/g	✱	06/01/25 11:59	06/02/25 15:01	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.39	0.097	ng/g	✱	06/01/25 11:59	06/02/25 15:01	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.39	0.13	ng/g	✱	06/01/25 11:59	06/02/25 15:01	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.39	0.13	ng/g	✱	06/01/25 11:59	06/02/25 15:01	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.19	0.088	ng/g	✱	06/01/25 11:59	06/02/25 15:01	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.19	0.088	ng/g	✱	06/01/25 11:59	06/02/25 15:01	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.19	0.097	ng/g	✱	06/01/25 11:59	06/02/25 15:01	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.19	0.078	ng/g	✱	06/01/25 11:59	06/02/25 15:01	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.19	0.11	ng/g	✱	06/01/25 11:59	06/02/25 15:01	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		0.97	0.29	ng/g	✱	06/01/25 11:59	06/02/25 15:01	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		0.97	0.29	ng/g	✱	06/01/25 11:59	06/02/25 15:01	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.19	0.11	ng/g	✱	06/01/25 11:59	06/02/25 15:01	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.19	0.058	ng/g	✱	06/01/25 11:59	06/02/25 15:01	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.19	0.068	ng/g	✱	06/01/25 11:59	06/02/25 15:01	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.19	0.049	ng/g	✱	06/01/25 11:59	06/02/25 15:01	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.19	0.068	ng/g	✱	06/01/25 11:59	06/02/25 15:01	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.19	0.088	ng/g	✱	06/01/25 11:59	06/02/25 15:01	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.19	0.078	ng/g	✱	06/01/25 11:59	06/02/25 15:01	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.19	0.049	ng/g	✱	06/01/25 11:59	06/02/25 15:01	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.39	0.19	ng/g	✱	06/01/25 11:59	06/02/25 15:01	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-17 Fill

Lab Sample ID: 480-229710-15

Date Collected: 05/27/25 13:20

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 81.2

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		0.97	0.49	ng/g	✱	06/01/25 11:59	06/02/25 15:01	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		0.97	0.39	ng/g	✱	06/01/25 11:59	06/02/25 15:01	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4-PFBA	101		8 - 130				06/01/25 11:59	06/02/25 15:01	1
13C5-PFPeA	110		35 - 130				06/01/25 11:59	06/02/25 15:01	1
13C5-PFHxA	106		40 - 130				06/01/25 11:59	06/02/25 15:01	1
13C4-PFHpA	107		40 - 130				06/01/25 11:59	06/02/25 15:01	1
13C8-PFOA	104		40 - 130				06/01/25 11:59	06/02/25 15:01	1
13C9-PFNA	97.6		40 - 130				06/01/25 11:59	06/02/25 15:01	1
13C6-PFDA	94.4		40 - 130				06/01/25 11:59	06/02/25 15:01	1
13C7-PFUnA	95.0		40 - 130				06/01/25 11:59	06/02/25 15:01	1
13C2-PFTeDA	67.4		20 - 130				06/01/25 11:59	06/02/25 15:01	1
13C3-PFBS	102		40 - 135				06/01/25 11:59	06/02/25 15:01	1
13C3-PFHxS	93.0		40 - 130				06/01/25 11:59	06/02/25 15:01	1
13C8-PFOS	81.0		40 - 130				06/01/25 11:59	06/02/25 15:01	1
13C8-PFOSA	88.6		40 - 130				06/01/25 11:59	06/02/25 15:01	1
d3-NMeFOSAA	85.9		40 - 135				06/01/25 11:59	06/02/25 15:01	1
d5-NEtFOSAA	123		40 - 150				06/01/25 11:59	06/02/25 15:01	1
13C2 4:2 FTS	115		40 - 165				06/01/25 11:59	06/02/25 15:01	1
13C2 6:2 FTS	120		40 - 215				06/01/25 11:59	06/02/25 15:01	1
13C2 8:2 FTS	97.5		40 - 275				06/01/25 11:59	06/02/25 15:01	1
13C3-HFPO-DA	108		40 - 130				06/01/25 11:59	06/02/25 15:01	1
D7-NMeFOSE	48.1		20 - 130				06/01/25 11:59	06/02/25 15:01	1
D9-NEtFOSE	40.3		15 - 130				06/01/25 11:59	06/02/25 15:01	1
d5-NEtPFOSA	58.0		10 - 130				06/01/25 11:59	06/02/25 15:01	1
d3-NMePFOSA	66.0		10 - 130				06/01/25 11:59	06/02/25 15:01	1
13C2 PFDaA	88.0		40 - 130				06/01/25 11:59	06/02/25 15:01	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	14400		12.9	11.1	mg/Kg	✱	05/28/25 15:39	05/29/25 19:43	1
Antimony	1.5	J	19.3	0.68	mg/Kg	✱	05/28/25 15:39	05/29/25 19:43	1
Arsenic	12.3		2.6	1.1	mg/Kg	✱	05/28/25 15:39	05/29/25 19:43	1
Barium	245		0.64	0.18	mg/Kg	✱	05/28/25 15:39	05/29/25 19:43	1
Beryllium	0.82	^5-	0.26	0.051	mg/Kg	✱	05/28/25 15:39	05/29/25 19:43	1
Cadmium	0.68		0.26	0.090	mg/Kg	✱	05/28/25 15:39	05/29/25 19:43	1
Calcium	8300	^5-	64.3	34.7	mg/Kg	✱	05/28/25 15:39	05/29/25 19:43	1
Chromium	21.5	^5-	0.64	0.46	mg/Kg	✱	05/28/25 15:39	05/29/25 19:43	1
Cobalt	11.8		0.64	0.13	mg/Kg	✱	05/28/25 15:39	05/29/25 19:43	1
Copper	67.8		1.3	0.73	mg/Kg	✱	05/28/25 15:39	05/29/25 19:43	1
Iron	29200		12.9	10.9	mg/Kg	✱	05/28/25 15:39	05/30/25 12:12	1
Lead	293		1.3	0.59	mg/Kg	✱	05/28/25 15:39	05/29/25 19:43	1
Magnesium	4290		25.7	10.9	mg/Kg	✱	05/28/25 15:39	05/29/25 19:43	1
Manganese	485		1.3	0.36	mg/Kg	✱	05/28/25 15:39	05/30/25 12:12	1
Nickel	28.8	^5-	6.4	0.32	mg/Kg	✱	05/28/25 15:39	05/29/25 19:43	1
Potassium	2460		38.6	31.2	mg/Kg	✱	05/28/25 15:39	05/29/25 19:43	1
Selenium	1.2	J	5.1	1.0	mg/Kg	✱	05/28/25 15:39	05/29/25 19:43	1
Silver	ND	^5-	0.77	0.26	mg/Kg	✱	05/28/25 15:39	05/29/25 19:43	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-17 Fill

Lab Sample ID: 480-229710-15

Date Collected: 05/27/25 13:20

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 81.2

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	153	J	180	78.8	mg/Kg	✱	05/28/25 15:39	05/29/25 19:43	1
Thallium	ND		7.7	0.98	mg/Kg	✱	05/28/25 15:39	05/29/25 19:43	1
Vanadium	25.7	^5-	0.64	0.17	mg/Kg	✱	05/28/25 15:39	05/29/25 19:43	1
Zinc	328	^5-	12.9	6.6	mg/Kg	✱	05/28/25 15:39	06/05/25 11:47	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.099		0.024	0.0054	mg/Kg	✱	05/30/25 13:38	05/30/25 15:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		1.1	0.53	mg/Kg	✱	05/31/25 12:17	05/31/25 17:30	1

Client Sample ID: RI-BH-17 Native

Lab Sample ID: 480-229710-16

Date Collected: 05/27/25 13:30

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 88.3

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.5	0.40	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
1,1,2,2-Tetrachloroethane	ND	vs	5.5	0.89	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.5	1.3	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
1,1,2-Trichloroethane	ND	vs	5.5	0.72	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
1,1-Dichloroethane	ND	vs	5.5	0.67	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
1,1-Dichloroethene	ND	vs	5.5	0.67	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
1,2,4-Trichlorobenzene	ND	vs	5.5	0.33	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.5	2.8	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
1,2-Dichlorobenzene	ND	vs	5.5	0.43	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
1,2-Dichloroethane	ND	vs	5.5	0.28	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
1,2-Dichloropropane	ND	vs	5.5	2.8	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
1,3-Dichlorobenzene	ND	vs	5.5	0.28	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
1,4-Dichlorobenzene	ND	vs	5.5	0.77	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
2-Butanone (MEK)	15	J vs	28	2.0	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
2-Hexanone	ND	vs	28	2.8	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
4-Methyl-2-pentanone (MIBK)	ND	vs	28	1.8	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
Acetone	80	vs	28	4.6	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
Benzene	ND	vs	5.5	0.27	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
Bromoform	ND	vs	5.5	2.8	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
Bromomethane	ND	vs	5.5	0.50	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
Carbon disulfide	ND	vs	5.5	2.8	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
Carbon tetrachloride	ND	vs	5.5	0.53	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
Chlorobenzene	ND	vs	5.5	0.73	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
Dibromochloromethane	ND	vs	5.5	0.70	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
Chloroethane	ND	vs	5.5	1.2	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
Chloroform	0.55	J vs	5.5	0.34	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
Chloromethane	ND	vs	5.5	0.33	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
cis-1,2-Dichloroethene	ND	vs	5.5	0.70	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
Cyclohexane	ND	vs	5.5	0.77	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
Bromodichloromethane	ND	vs	5.5	0.74	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
Dichlorodifluoromethane	ND	vs	5.5	0.45	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-17 Native

Lab Sample ID: 480-229710-16

Date Collected: 05/27/25 13:30

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 88.3

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND	vs	5.5	0.38	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
1,2-Dibromoethane	ND	vs	5.5	0.71	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
Isopropylbenzene	ND	vs	5.5	0.83	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
Methyl acetate	ND	vs	28	3.3	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
Methyl tert-butyl ether	ND	vs	5.5	0.54	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
Methylcyclohexane	ND	vs	5.5	0.84	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
Methylene Chloride	5.1	J B vs	5.5	2.5	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
Tetrachloroethene	ND	vs	5.5	0.74	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
Toluene	ND	vs	5.5	0.42	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
trans-1,2-Dichloroethene	ND	vs	5.5	0.57	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
trans-1,3-Dichloropropene	ND	vs	5.5	2.4	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
Trichloroethene	ND	vs	5.5	1.2	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
Trichlorofluoromethane	ND	vs	5.5	0.52	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
Vinyl chloride	ND	vs	5.5	0.67	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
Xylenes, Total	ND	vs	11	0.93	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
cis-1,3-Dichloropropene	ND	vs	5.5	0.79	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1
Styrene	ND	vs	5.5	0.28	ug/Kg	✱	05/28/25 18:17	05/29/25 05:34	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	✱		N/A	05/28/25 18:17	05/29/25 05:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		64 - 126	05/28/25 18:17	05/29/25 05:34	1
4-Bromofluorobenzene (Surr)	104		72 - 126	05/28/25 18:17	05/29/25 05:34	1
Toluene-d8 (Surr)	89		71 - 125	05/28/25 18:17	05/29/25 05:34	1
Dibromofluoromethane (Surr)	107		60 - 140	05/28/25 18:17	05/29/25 05:34	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		110	42	ug/Kg	✱	05/29/25 13:50	05/30/25 18:25	1
2,4,5-Trichlorophenol	ND		190	39	ug/Kg	✱	05/29/25 13:50	05/30/25 18:25	1
2,4,6-Trichlorophenol	ND		190	29	ug/Kg	✱	05/29/25 13:50	05/30/25 18:25	1
2,4-Dichlorophenol	ND		190	37	ug/Kg	✱	05/29/25 13:50	05/30/25 18:25	1
2,4-Dimethylphenol	ND		190	40	ug/Kg	✱	05/29/25 13:50	05/30/25 18:25	1
2,4-Dinitrophenol	ND		1900	36	ug/Kg	✱	05/29/25 13:50	05/30/25 18:25	1
2,4-Dinitrotoluene	ND		190	26	ug/Kg	✱	05/29/25 13:50	05/30/25 18:25	1
2,6-Dinitrotoluene	ND		190	27	ug/Kg	✱	05/29/25 13:50	05/30/25 18:25	1
2-Chloronaphthalene	ND		190	36	ug/Kg	✱	05/29/25 13:50	05/30/25 18:25	1
2-Chlorophenol	ND		190	30	ug/Kg	✱	05/29/25 13:50	05/30/25 18:25	1
2-Methylnaphthalene	ND		190	30	ug/Kg	✱	05/29/25 13:50	05/30/25 18:25	1
2-Methylphenol	ND		190	31	ug/Kg	✱	05/29/25 13:50	05/30/25 18:25	1
2-Nitroaniline	ND		370	32	ug/Kg	✱	05/29/25 13:50	05/30/25 18:25	1
2-Nitrophenol	ND		190	22	ug/Kg	✱	05/29/25 13:50	05/30/25 18:25	1
3,3'-Dichlorobenzidine	ND		370	56	ug/Kg	✱	05/29/25 13:50	05/30/25 18:25	1
3-Nitroaniline	ND		370	27	ug/Kg	✱	05/29/25 13:50	05/30/25 18:25	1
4,6-Dinitro-2-methylphenol	ND		370	42	ug/Kg	✱	05/29/25 13:50	05/30/25 18:25	1
4-Bromophenyl phenyl ether	ND		190	32	ug/Kg	✱	05/29/25 13:50	05/30/25 18:25	1
4-Chloro-3-methylphenol	ND		190	39	ug/Kg	✱	05/29/25 13:50	05/30/25 18:25	1
4-Chloroaniline	ND		190	27	ug/Kg	✱	05/29/25 13:50	05/30/25 18:25	1
4-Chlorophenyl phenyl ether	ND		190	40	ug/Kg	✱	05/29/25 13:50	05/30/25 18:25	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-17 Native

Lab Sample ID: 480-229710-16

Date Collected: 05/27/25 13:30

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 88.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methylphenol	ND		370	34	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
4-Nitroaniline	ND		370	28	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
4-Nitrophenol	ND		370	52	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
Acenaphthene	ND		190	35	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
Acenaphthylene	ND		190	37	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
Acetophenone	ND		190	34	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
Anthracene	80	J	190	35	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
Atrazine	ND		190	65	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
Benzaldehyde	ND		190	150	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
Benzo[a]anthracene	180	J	190	26	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
Benzo[a]pyrene	160	J	190	32	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
Benzo[b]fluoranthene	210		190	26	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
Benzo[g,h,i]perylene	69	J	190	33	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
Benzo[k]fluoranthene	58	J	190	43	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
Biphenyl	ND		190	36	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
bis (2-chloroisopropyl) ether	ND		190	39	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
Bis(2-chloroethoxy)methane	ND		190	37	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
Bis(2-chloroethyl)ether	ND		190	36	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
Bis(2-ethylhexyl) phthalate	ND		190	41	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
Butyl benzyl phthalate	ND		190	35	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
Caprolactam	ND		190	44	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
Carbazole	ND		190	37	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
Chrysene	210		190	46	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
Dibenz(a,h)anthracene	ND		190	39	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
Dibenzofuran	ND		190	34	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
Diethyl phthalate	ND		190	34	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
Dimethyl phthalate	ND		190	37	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
Di-n-butyl phthalate	ND		190	43	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
Di-n-octyl phthalate	ND		190	36	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
Fluoranthene	360		190	35	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
Fluorene	ND		190	35	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
Hexachlorobenzene	ND		190	37	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
Hexachlorobutadiene	ND		190	29	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
Hexachlorocyclopentadiene	ND		370	83	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
Hexachloroethane	ND		190	35	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
Indeno[1,2,3-cd]pyrene	83	J	190	28	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
Isophorone	ND		190	39	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
Naphthalene	ND		190	32	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
Nitrobenzene	ND		190	32	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
N-Nitrosodi-n-propylamine	ND		190	43	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
N-Nitrosodiphenylamine	ND		190	32	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
Pentachlorophenol	ND		370	61	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
Phenanthrene	100	J	190	36	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
Phenol	ND		190	35	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1
Pyrene	290		190	36	ug/Kg	☼	05/29/25 13:50	05/30/25 18:25	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	11000	T J	ug/Kg	☼	2.00	N/A	05/29/25 13:50	05/30/25 18:25	1
Unknown	2000	T J	ug/Kg	☼	3.46	N/A	05/29/25 13:50	05/30/25 18:25	1
Unknown	560	T J	ug/Kg	☼	7.38	N/A	05/29/25 13:50	05/30/25 18:25	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-17 Native

Lab Sample ID: 480-229710-16

Date Collected: 05/27/25 13:30

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 88.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	660	T J	ug/Kg	⊛	7.81	N/A	05/29/25 13:50	05/30/25 18:25	1
Unknown	620	T J	ug/Kg	⊛	8.00	N/A	05/29/25 13:50	05/30/25 18:25	1
Unknown	800	T J	ug/Kg	⊛	8.67	N/A	05/29/25 13:50	05/30/25 18:25	1
Unknown	540	T J	ug/Kg	⊛	9.05	N/A	05/29/25 13:50	05/30/25 18:25	1
Hexadecane	900	T J N	ug/Kg	⊛	9.86	544-76-3	05/29/25 13:50	05/30/25 18:25	1
Unknown	980	T J	ug/Kg	⊛	10.11	N/A	05/29/25 13:50	05/30/25 18:25	1
Heptadecane	1700	T J N	ug/Kg	⊛	10.39	629-78-7	05/29/25 13:50	05/30/25 18:25	1
Octadecane	850	T J N	ug/Kg	⊛	10.85	593-45-3	05/29/25 13:50	05/30/25 18:25	1
Tridecane, 6-propyl-	890	T J N	ug/Kg	⊛	11.26	55045-10-8	05/29/25 13:50	05/30/25 18:25	1
Unknown	530	T J	ug/Kg	⊛	11.42	N/A	05/29/25 13:50	05/30/25 18:25	1
Eicosane	780	T J N	ug/Kg	⊛	11.64	112-95-8	05/29/25 13:50	05/30/25 18:25	1
Heneicosane	800	T J N	ug/Kg	⊛	11.99	629-94-7	05/29/25 13:50	05/30/25 18:25	1
Pentadecane	590	T J N	ug/Kg	⊛	12.32	629-62-9	05/29/25 13:50	05/30/25 18:25	1
Hexatriacontane	520	T J N	ug/Kg	⊛	12.62	630-06-8	05/29/25 13:50	05/30/25 18:25	1
Unknown	480	T J	ug/Kg	⊛	12.91	N/A	05/29/25 13:50	05/30/25 18:25	1
Pentacosane	550	T J N	ug/Kg	⊛	13.19	629-99-2	05/29/25 13:50	05/30/25 18:25	1
5,15-Dimethylnonadecane	760	T J N	ug/Kg	⊛	13.46	1000131-09-1	05/29/25 13:50	05/30/25 18:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	58		10 - 140	05/29/25 13:50	05/30/25 18:25	1
2-Fluorobiphenyl (Surr)	65		29 - 120	05/29/25 13:50	05/30/25 18:25	1
2-Fluorophenol (Surr)	63		18 - 120	05/29/25 13:50	05/30/25 18:25	1
Nitrobenzene-d5 (Surr)	69		22 - 120	05/29/25 13:50	05/30/25 18:25	1
Phenol-d5 (Surr)	68		23 - 120	05/29/25 13:50	05/30/25 18:25	1
p-Terphenyl-d14 (Surr)	69		28 - 124	05/29/25 13:50	05/30/25 18:25	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		3.7	0.72	ug/Kg	⊛	05/29/25 06:48	05/30/25 14:43	1
4,4'-DDE	ND		3.7	0.78	ug/Kg	⊛	05/29/25 06:48	05/30/25 14:43	1
4,4'-DDT	ND		3.7	0.87	ug/Kg	⊛	05/29/25 06:48	05/30/25 14:43	1
beta-BHC	ND		3.7	0.67	ug/Kg	⊛	05/29/25 06:48	05/30/25 14:43	1
cis-Chlordane	ND		3.7	1.8	ug/Kg	⊛	05/29/25 06:48	05/30/25 14:43	1
alpha-BHC	ND		3.7	0.67	ug/Kg	⊛	05/29/25 06:48	05/30/25 14:43	1
Aldrin	ND		3.7	0.91	ug/Kg	⊛	05/29/25 06:48	05/30/25 14:43	1
delta-BHC	ND		3.7	0.69	ug/Kg	⊛	05/29/25 06:48	05/30/25 14:43	1
Dieldrin	ND		3.7	0.89	ug/Kg	⊛	05/29/25 06:48	05/30/25 14:43	1
Endosulfan I	ND		3.7	0.71	ug/Kg	⊛	05/29/25 06:48	05/30/25 14:43	1
Endosulfan II	ND		3.7	0.67	ug/Kg	⊛	05/29/25 06:48	05/30/25 14:43	1
Endosulfan sulfate	ND		3.7	0.69	ug/Kg	⊛	05/29/25 06:48	05/30/25 14:43	1
Endrin	ND		3.7	0.73	ug/Kg	⊛	05/29/25 06:48	05/30/25 14:43	1
Endrin aldehyde	ND		3.7	0.95	ug/Kg	⊛	05/29/25 06:48	05/30/25 14:43	1
Endrin ketone	ND		3.7	0.91	ug/Kg	⊛	05/29/25 06:48	05/30/25 14:43	1
gamma-BHC (Lindane)	ND		3.7	0.68	ug/Kg	⊛	05/29/25 06:48	05/30/25 14:43	1
trans-Chlordane	ND		3.7	1.2	ug/Kg	⊛	05/29/25 06:48	05/30/25 14:43	1
Heptachlor	ND		3.7	0.80	ug/Kg	⊛	05/29/25 06:48	05/30/25 14:43	1
Heptachlor epoxide	ND		3.7	0.96	ug/Kg	⊛	05/29/25 06:48	05/30/25 14:43	1
Methoxychlor	ND		3.7	0.76	ug/Kg	⊛	05/29/25 06:48	05/30/25 14:43	1
Toxaphene	ND		37	22	ug/Kg	⊛	05/29/25 06:48	05/30/25 14:43	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-17 Native

Lab Sample ID: 480-229710-16

Date Collected: 05/27/25 13:30

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 88.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	77		45 - 120	05/29/25 06:48	05/30/25 14:43	1
DCB Decachlorobiphenyl	82		45 - 120	05/29/25 06:48	05/30/25 14:43	1
Tetrachloro-m-xylene	62		30 - 124	05/29/25 06:48	05/30/25 14:43	1
Tetrachloro-m-xylene	58		30 - 124	05/29/25 06:48	05/30/25 14:43	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.26	0.050	mg/Kg	✱	05/30/25 06:41	05/30/25 19:24	1
PCB-1221	ND		0.26	0.050	mg/Kg	✱	05/30/25 06:41	05/30/25 19:24	1
PCB-1232	ND		0.26	0.050	mg/Kg	✱	05/30/25 06:41	05/30/25 19:24	1
PCB-1242	ND		0.26	0.050	mg/Kg	✱	05/30/25 06:41	05/30/25 19:24	1
PCB-1248	ND		0.26	0.050	mg/Kg	✱	05/30/25 06:41	05/30/25 19:24	1
PCB-1254	ND		0.26	0.12	mg/Kg	✱	05/30/25 06:41	05/30/25 19:24	1
PCB-1260	ND		0.26	0.12	mg/Kg	✱	05/30/25 06:41	05/30/25 19:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	112		60 - 154	05/30/25 06:41	05/30/25 19:24	1
Tetrachloro-m-xylene	119		60 - 154	05/30/25 06:41	05/30/25 19:24	1
DCB Decachlorobiphenyl	126		65 - 174	05/30/25 06:41	05/30/25 19:24	1
DCB Decachlorobiphenyl	123		65 - 174	05/30/25 06:41	05/30/25 19:24	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.40	0.13	ng/g	✱	06/01/25 11:59	06/02/25 15:15	1
Perfluoropentanoic acid (PFPeA)	ND		0.20	0.050	ng/g	✱	06/01/25 11:59	06/02/25 15:15	1
Perfluorohexanoic acid (PFHxA)	ND		0.20	0.060	ng/g	✱	06/01/25 11:59	06/02/25 15:15	1
Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.070	ng/g	✱	06/01/25 11:59	06/02/25 15:15	1
Perfluorooctanoic acid (PFOA)	ND		0.20	0.060	ng/g	✱	06/01/25 11:59	06/02/25 15:15	1
Perfluorononanoic acid (PFNA)	ND		0.20	0.060	ng/g	✱	06/01/25 11:59	06/02/25 15:15	1
Perfluorodecanoic acid (PFDA)	ND		0.20	0.050	ng/g	✱	06/01/25 11:59	06/02/25 15:15	1
Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.050	ng/g	✱	06/01/25 11:59	06/02/25 15:15	1
Perfluorododecanoic acid (PFDoA)	ND		0.20	0.050	ng/g	✱	06/01/25 11:59	06/02/25 15:15	1
Perfluorotridecanoic acid (PFTriDA)	ND		0.20	0.070	ng/g	✱	06/01/25 11:59	06/02/25 15:15	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.20	0.070	ng/g	✱	06/01/25 11:59	06/02/25 15:15	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.070	ng/g	✱	06/01/25 11:59	06/02/25 15:15	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.20	0.060	ng/g	✱	06/01/25 11:59	06/02/25 15:15	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.050	ng/g	✱	06/01/25 11:59	06/02/25 15:15	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.070	ng/g	✱	06/01/25 11:59	06/02/25 15:15	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.20	0.11	ng/g	✱	06/01/25 11:59	06/02/25 15:15	1
Perfluorononanesulfonic acid (PFNS)	ND		0.20	0.070	ng/g	✱	06/01/25 11:59	06/02/25 15:15	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.050	ng/g	✱	06/01/25 11:59	06/02/25 15:15	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.060	ng/g	✱	06/01/25 11:59	06/02/25 15:15	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.40	0.099	ng/g	✱	06/01/25 11:59	06/02/25 15:15	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.40	0.13	ng/g	✱	06/01/25 11:59	06/02/25 15:15	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.40	0.13	ng/g	✱	06/01/25 11:59	06/02/25 15:15	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.089	ng/g	✱	06/01/25 11:59	06/02/25 15:15	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-17 Native

Lab Sample ID: 480-229710-16

Date Collected: 05/27/25 13:30

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 88.3

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.20	0.089	ng/g	☼	06/01/25 11:59	06/02/25 15:15	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.20	0.099	ng/g	☼	06/01/25 11:59	06/02/25 15:15	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.20	0.079	ng/g	☼	06/01/25 11:59	06/02/25 15:15	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.20	0.11	ng/g	☼	06/01/25 11:59	06/02/25 15:15	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		0.99	0.30	ng/g	☼	06/01/25 11:59	06/02/25 15:15	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		0.99	0.30	ng/g	☼	06/01/25 11:59	06/02/25 15:15	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.20	0.11	ng/g	☼	06/01/25 11:59	06/02/25 15:15	1
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND		0.20	0.060	ng/g	☼	06/01/25 11:59	06/02/25 15:15	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.20	0.070	ng/g	☼	06/01/25 11:59	06/02/25 15:15	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.20	0.050	ng/g	☼	06/01/25 11:59	06/02/25 15:15	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.20	0.070	ng/g	☼	06/01/25 11:59	06/02/25 15:15	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.20	0.089	ng/g	☼	06/01/25 11:59	06/02/25 15:15	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.20	0.079	ng/g	☼	06/01/25 11:59	06/02/25 15:15	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.20	0.050	ng/g	☼	06/01/25 11:59	06/02/25 15:15	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.40	0.20	ng/g	☼	06/01/25 11:59	06/02/25 15:15	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		0.99	0.50	ng/g	☼	06/01/25 11:59	06/02/25 15:15	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		0.99	0.40	ng/g	☼	06/01/25 11:59	06/02/25 15:15	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4-PFBA	106		8 - 130				06/01/25 11:59	06/02/25 15:15	1
13C5-PFPeA	113		35 - 130				06/01/25 11:59	06/02/25 15:15	1
13C5-PFHxA	108		40 - 130				06/01/25 11:59	06/02/25 15:15	1
13C4-PFHpA	109		40 - 130				06/01/25 11:59	06/02/25 15:15	1
13C8-PFOA	109		40 - 130				06/01/25 11:59	06/02/25 15:15	1
13C9-PFNA	109		40 - 130				06/01/25 11:59	06/02/25 15:15	1
13C6-PFDA	95.8		40 - 130				06/01/25 11:59	06/02/25 15:15	1
13C7-PFUnA	97.4		40 - 130				06/01/25 11:59	06/02/25 15:15	1
13C2-PFTeDA	69.8		20 - 130				06/01/25 11:59	06/02/25 15:15	1
13C3-PFBS	98.8		40 - 135				06/01/25 11:59	06/02/25 15:15	1
13C3-PFHxS	102		40 - 130				06/01/25 11:59	06/02/25 15:15	1
13C8-PFOS	92.4		40 - 130				06/01/25 11:59	06/02/25 15:15	1
13C8-PFOSA	86.4		40 - 130				06/01/25 11:59	06/02/25 15:15	1
d3-NMeFOSAA	93.2		40 - 135				06/01/25 11:59	06/02/25 15:15	1
d5-NEtFOSAA	124		40 - 150				06/01/25 11:59	06/02/25 15:15	1
13C2 4:2 FTS	116		40 - 165				06/01/25 11:59	06/02/25 15:15	1
13C2 6:2 FTS	124		40 - 215				06/01/25 11:59	06/02/25 15:15	1
13C2 8:2 FTS	108		40 - 275				06/01/25 11:59	06/02/25 15:15	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-17 Native

Lab Sample ID: 480-229710-16

Date Collected: 05/27/25 13:30

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 88.3

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3-HFPO-DA	110		40 - 130	06/01/25 11:59	06/02/25 15:15	1
D7-NMeFOSE	48.2		20 - 130	06/01/25 11:59	06/02/25 15:15	1
D9-NEtFOSE	41.1		15 - 130	06/01/25 11:59	06/02/25 15:15	1
d5-NEtPFOSA	56.8		10 - 130	06/01/25 11:59	06/02/25 15:15	1
d3-NMePFOSA	65.7		10 - 130	06/01/25 11:59	06/02/25 15:15	1
13C2 PFDoA	88.5		40 - 130	06/01/25 11:59	06/02/25 15:15	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12000		11.7	10.1	mg/Kg	✱	05/28/25 15:39	05/29/25 19:45	1
Antimony	0.95	J	17.5	0.62	mg/Kg	✱	05/28/25 15:39	05/29/25 19:45	1
Arsenic	15.2		2.3	1.0	mg/Kg	✱	05/28/25 15:39	05/29/25 19:45	1
Barium	200		0.58	0.16	mg/Kg	✱	05/28/25 15:39	05/29/25 19:45	1
Beryllium	0.58	^5-	0.23	0.047	mg/Kg	✱	05/28/25 15:39	05/29/25 19:45	1
Cadmium	1.1		0.23	0.082	mg/Kg	✱	05/28/25 15:39	05/29/25 19:45	1
Calcium	38400		58.5	31.6	mg/Kg	✱	05/28/25 15:39	05/30/25 12:14	1
Chromium	16.8	^5-	0.58	0.42	mg/Kg	✱	05/28/25 15:39	05/29/25 19:45	1
Cobalt	11.2		0.58	0.12	mg/Kg	✱	05/28/25 15:39	05/29/25 19:45	1
Copper	35.6		1.2	0.67	mg/Kg	✱	05/28/25 15:39	05/29/25 19:45	1
Iron	25700		11.7	9.9	mg/Kg	✱	05/28/25 15:39	05/30/25 12:14	1
Lead	25.1		1.2	0.54	mg/Kg	✱	05/28/25 15:39	05/29/25 19:45	1
Magnesium	7670		23.4	9.9	mg/Kg	✱	05/28/25 15:39	05/29/25 19:45	1
Manganese	397		1.2	0.33	mg/Kg	✱	05/28/25 15:39	05/30/25 12:14	1
Nickel	32.0	^5-	5.8	0.29	mg/Kg	✱	05/28/25 15:39	05/29/25 19:45	1
Potassium	2990		35.1	28.3	mg/Kg	✱	05/28/25 15:39	05/29/25 19:45	1
Selenium	1.1	J	4.7	0.94	mg/Kg	✱	05/28/25 15:39	05/29/25 19:45	1
Silver	ND	^5-	0.70	0.23	mg/Kg	✱	05/28/25 15:39	05/29/25 19:45	1
Sodium	160	J	164	71.7	mg/Kg	✱	05/28/25 15:39	05/29/25 19:45	1
Thallium	ND		7.0	0.89	mg/Kg	✱	05/28/25 15:39	05/29/25 19:45	1
Vanadium	22.1	^5-	0.58	0.15	mg/Kg	✱	05/28/25 15:39	05/29/25 19:45	1
Zinc	158	^5-	2.3	1.2	mg/Kg	✱	05/28/25 15:39	05/29/25 19:45	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021	J	0.024	0.0055	mg/Kg	✱	05/30/25 13:38	05/30/25 15:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.97	0.47	mg/Kg	✱	05/31/25 12:17	05/31/25 17:31	1

Client Sample ID: RI-BH-18 Fill

Lab Sample ID: 480-229710-17

Date Collected: 05/27/25 13:45

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 84.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.7	0.41	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
1,1,2,2-Tetrachloroethane	ND	vs	5.7	0.93	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.7	1.3	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
1,1,2-Trichloroethane	ND	vs	5.7	0.74	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
1,1-Dichloroethane	ND	vs	5.7	0.70	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-18 Fill

Lab Sample ID: 480-229710-17

Date Collected: 05/27/25 13:45

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 84.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND	vs	5.7	0.70	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
1,2,4-Trichlorobenzene	ND	vs	5.7	0.35	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.7	2.9	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
1,2-Dichlorobenzene	ND	vs	5.7	0.45	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
1,2-Dichloroethane	ND	vs	5.7	0.29	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
1,2-Dichloropropane	ND	vs	5.7	2.9	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
1,3-Dichlorobenzene	ND	vs	5.7	0.29	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
1,4-Dichlorobenzene	ND	vs	5.7	0.80	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
2-Butanone (MEK)	ND	vs	29	2.1	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
2-Hexanone	ND	vs	29	2.9	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
4-Methyl-2-pentanone (MIBK)	ND	vs	29	1.9	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
Acetone	ND	vs	29	4.8	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
Benzene	ND	vs	5.7	0.28	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
Bromoform	ND	vs	5.7	2.9	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
Bromomethane	ND	vs	5.7	0.51	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
Carbon disulfide	ND	vs	5.7	2.9	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
Carbon tetrachloride	ND	vs	5.7	0.55	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
Chlorobenzene	ND	vs	5.7	0.75	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
Dibromochloromethane	ND	vs	5.7	0.73	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
Chloroethane	ND	vs	5.7	1.3	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
Chloroform	0.48	J vs	5.7	0.35	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
Chloromethane	ND	vs	5.7	0.34	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
cis-1,2-Dichloroethene	ND	vs	5.7	0.73	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
Cyclohexane	ND	vs	5.7	0.80	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
Bromodichloromethane	ND	vs	5.7	0.77	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
Dichlorodifluoromethane	ND	vs	5.7	0.47	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
Ethylbenzene	ND	vs	5.7	0.39	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
1,2-Dibromoethane	ND	vs	5.7	0.73	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
Isopropylbenzene	ND	vs	5.7	0.86	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
Methyl acetate	ND	vs	29	3.4	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
Methyl tert-butyl ether	ND	vs	5.7	0.56	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
Methylcyclohexane	ND	vs	5.7	0.87	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
Methylene Chloride	3.2	J B vs	5.7	2.6	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
Tetrachloroethene	ND	vs	5.7	0.77	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
Toluene	ND	vs	5.7	0.43	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
trans-1,2-Dichloroethene	ND	vs	5.7	0.59	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
trans-1,3-Dichloropropene	ND	vs	5.7	2.5	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
Trichloroethene	ND	vs	5.7	1.3	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
Trichlorofluoromethane	ND	vs	5.7	0.54	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
Vinyl chloride	ND	vs	5.7	0.70	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
Xylenes, Total	ND	vs	11	0.96	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
cis-1,3-Dichloropropene	ND	vs	5.7	0.82	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1
Styrene	ND	vs	5.7	0.29	ug/Kg	✱	05/28/25 18:17	05/29/25 05:58	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	✱		N/A	05/28/25 18:17	05/29/25 05:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		64 - 126	05/28/25 18:17	05/29/25 05:58	1
4-Bromofluorobenzene (Surr)	103		72 - 126	05/28/25 18:17	05/29/25 05:58	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-18 Fill

Lab Sample ID: 480-229710-17

Date Collected: 05/27/25 13:45

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 84.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	90		71 - 125	05/28/25 18:17	05/29/25 05:58	1
Dibromofluoromethane (Surr)	105		60 - 140	05/28/25 18:17	05/29/25 05:58	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		120	43	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1
2,4,5-Trichlorophenol	ND		200	40	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1
2,4,6-Trichlorophenol	ND		200	30	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1
2,4-Dichlorophenol	ND		200	39	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1
2,4-Dimethylphenol	ND		200	41	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1
2,4-Dinitrophenol	ND		1900	38	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1
2,4-Dinitrotoluene	ND		200	27	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1
2,6-Dinitrotoluene	ND		200	28	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1
2-Chloronaphthalene	ND		200	37	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1
2-Chlorophenol	ND		200	31	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1
2-Methylnaphthalene	130	J	200	31	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1
2-Methylphenol	ND		200	32	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1
2-Nitroaniline	ND		380	33	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1
2-Nitrophenol	ND		200	22	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1
3,3'-Dichlorobenzidine	ND		380	58	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1
3-Nitroaniline	ND		380	28	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1
4,6-Dinitro-2-methylphenol	ND		380	43	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1
4-Bromophenyl phenyl ether	ND		200	33	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1
4-Chloro-3-methylphenol	ND		200	40	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1
4-Chloroaniline	ND		200	28	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1
4-Chlorophenyl phenyl ether	ND		200	41	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1
4-Methylphenol	ND		380	35	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1
4-Nitroaniline	ND		380	29	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1
4-Nitrophenol	ND		380	54	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1
Acenaphthene	ND		200	37	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1
Acenaphthylene	42	J	200	38	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1
Acetophenone	ND		200	35	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1
Anthracene	63	J	200	36	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1
Atrazine	ND		200	67	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1
Benzaldehyde	ND		200	150	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1
Benzo[a]anthracene	270		200	27	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1
Benzo[a]pyrene	310		200	34	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1
Benzo[b]fluoranthene	460		200	26	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1
Benzo[g,h,i]perylene	220		200	34	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1
Benzo[k]fluoranthene	220		200	44	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1
Biphenyl	ND		200	37	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1
bis (2-chloroisopropyl) ether	ND		200	40	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1
Bis(2-chloroethoxy)methane	ND		200	38	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1
Bis(2-chloroethyl)ether	ND		200	37	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1
Bis(2-ethylhexyl) phthalate	ND		200	43	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1
Butyl benzyl phthalate	ND		200	36	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1
Caprolactam	ND		200	46	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1
Carbazole	ND		200	39	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1
Chrysene	410		200	47	ug/Kg	✱	05/29/25 13:50	05/30/25 18:50	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-18 Fill

Lab Sample ID: 480-229710-17

Date Collected: 05/27/25 13:45

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 84.4

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	91	J	200	40	ug/Kg	☼	05/29/25 13:50	05/30/25 18:50	1
Dibenzofuran	47	J	200	35	ug/Kg	☼	05/29/25 13:50	05/30/25 18:50	1
Diethyl phthalate	ND		200	35	ug/Kg	☼	05/29/25 13:50	05/30/25 18:50	1
Dimethyl phthalate	ND		200	38	ug/Kg	☼	05/29/25 13:50	05/30/25 18:50	1
Di-n-butyl phthalate	ND		200	44	ug/Kg	☼	05/29/25 13:50	05/30/25 18:50	1
Di-n-octyl phthalate	ND		200	38	ug/Kg	☼	05/29/25 13:50	05/30/25 18:50	1
Fluoranthene	720		200	36	ug/Kg	☼	05/29/25 13:50	05/30/25 18:50	1
Fluorene	ND		200	36	ug/Kg	☼	05/29/25 13:50	05/30/25 18:50	1
Hexachlorobenzene	ND		200	38	ug/Kg	☼	05/29/25 13:50	05/30/25 18:50	1
Hexachlorobutadiene	ND		200	29	ug/Kg	☼	05/29/25 13:50	05/30/25 18:50	1
Hexachlorocyclopentadiene	ND		380	86	ug/Kg	☼	05/29/25 13:50	05/30/25 18:50	1
Hexachloroethane	ND		200	36	ug/Kg	☼	05/29/25 13:50	05/30/25 18:50	1
Indeno[1,2,3-cd]pyrene	220		200	29	ug/Kg	☼	05/29/25 13:50	05/30/25 18:50	1
Isophorone	ND		200	40	ug/Kg	☼	05/29/25 13:50	05/30/25 18:50	1
Naphthalene	81	J	200	33	ug/Kg	☼	05/29/25 13:50	05/30/25 18:50	1
Nitrobenzene	ND		200	33	ug/Kg	☼	05/29/25 13:50	05/30/25 18:50	1
N-Nitrosodi-n-propylamine	ND		200	44	ug/Kg	☼	05/29/25 13:50	05/30/25 18:50	1
N-Nitrosodiphenylamine	ND		200	33	ug/Kg	☼	05/29/25 13:50	05/30/25 18:50	1
Pentachlorophenol	ND		380	63	ug/Kg	☼	05/29/25 13:50	05/30/25 18:50	1
Phenanthrene	430		200	37	ug/Kg	☼	05/29/25 13:50	05/30/25 18:50	1
Phenol	ND		200	36	ug/Kg	☼	05/29/25 13:50	05/30/25 18:50	1
Pyrene	520		200	37	ug/Kg	☼	05/29/25 13:50	05/30/25 18:50	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	2400	T J	ug/Kg	☼	3.47	N/A	05/29/25 13:50	05/30/25 18:50	1
Octadecane, 2,6-dimethyl-	630	T J N	ug/Kg	☼	10.40	75163-97-2	05/29/25 13:50	05/30/25 18:50	1
Unknown	500	T J	ug/Kg	☼	11.48	N/A	05/29/25 13:50	05/30/25 18:50	1
Cyclohexadecane	710	T J N	ug/Kg	☼	13.18	295-65-8	05/29/25 13:50	05/30/25 18:50	1
Unknown	530	T J	ug/Kg	☼	13.46	N/A	05/29/25 13:50	05/30/25 18:50	1
Unknown	1300	T J	ug/Kg	☼	13.72	N/A	05/29/25 13:50	05/30/25 18:50	1
Unknown	380	T J	ug/Kg	☼	14.08	N/A	05/29/25 13:50	05/30/25 18:50	1
Cyclodocosane, ethyl-	1500	T J N	ug/Kg	☼	14.23	1000151-22-6	05/29/25 13:50	05/30/25 18:50	1
Unknown	370	T J	ug/Kg	☼	14.60	N/A	05/29/25 13:50	05/30/25 18:50	1
Tricosane	920	T J N	ug/Kg	☼	14.74	638-67-5	05/29/25 13:50	05/30/25 18:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	67		10 - 140	05/29/25 13:50	05/30/25 18:50	1
2-Fluorobiphenyl (Surr)	65		29 - 120	05/29/25 13:50	05/30/25 18:50	1
2-Fluorophenol (Surr)	63		18 - 120	05/29/25 13:50	05/30/25 18:50	1
Nitrobenzene-d5 (Surr)	63		22 - 120	05/29/25 13:50	05/30/25 18:50	1
Phenol-d5 (Surr)	65		23 - 120	05/29/25 13:50	05/30/25 18:50	1
p-Terphenyl-d14 (Surr)	68		28 - 124	05/29/25 13:50	05/30/25 18:50	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		3.9	0.75	ug/Kg	☼	05/29/25 06:48	05/30/25 15:03	1
4,4'-DDE	ND		3.9	0.81	ug/Kg	☼	05/29/25 06:48	05/30/25 15:03	1
4,4'-DDT	3.5	J	3.9	0.91	ug/Kg	☼	05/29/25 06:48	05/30/25 15:03	1
beta-BHC	ND		3.9	0.70	ug/Kg	☼	05/29/25 06:48	05/30/25 15:03	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-18 Fill

Lab Sample ID: 480-229710-17

Date Collected: 05/27/25 13:45

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 84.4

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-Chlordane	ND		3.9	1.9	ug/Kg	✱	05/29/25 06:48	05/30/25 15:03	1
alpha-BHC	ND		3.9	0.70	ug/Kg	✱	05/29/25 06:48	05/30/25 15:03	1
Aldrin	ND		3.9	0.95	ug/Kg	✱	05/29/25 06:48	05/30/25 15:03	1
delta-BHC	ND		3.9	0.72	ug/Kg	✱	05/29/25 06:48	05/30/25 15:03	1
Dieldrin	ND		3.9	0.93	ug/Kg	✱	05/29/25 06:48	05/30/25 15:03	1
Endosulfan I	ND		3.9	0.74	ug/Kg	✱	05/29/25 06:48	05/30/25 15:03	1
Endosulfan II	ND		3.9	0.70	ug/Kg	✱	05/29/25 06:48	05/30/25 15:03	1
Endosulfan sulfate	ND		3.9	0.72	ug/Kg	✱	05/29/25 06:48	05/30/25 15:03	1
Endrin	ND		3.9	0.77	ug/Kg	✱	05/29/25 06:48	05/30/25 15:03	1
Endrin aldehyde	ND		3.9	0.99	ug/Kg	✱	05/29/25 06:48	05/30/25 15:03	1
Endrin ketone	ND		3.9	0.95	ug/Kg	✱	05/29/25 06:48	05/30/25 15:03	1
gamma-BHC (Lindane)	ND		3.9	0.71	ug/Kg	✱	05/29/25 06:48	05/30/25 15:03	1
trans-Chlordane	ND		3.9	1.2	ug/Kg	✱	05/29/25 06:48	05/30/25 15:03	1
Heptachlor	ND		3.9	0.84	ug/Kg	✱	05/29/25 06:48	05/30/25 15:03	1
Heptachlor epoxide	ND		3.9	1.0	ug/Kg	✱	05/29/25 06:48	05/30/25 15:03	1
Methoxychlor	3.6	J B	3.9	0.79	ug/Kg	✱	05/29/25 06:48	05/30/25 15:03	1
Toxaphene	ND		39	23	ug/Kg	✱	05/29/25 06:48	05/30/25 15:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	87		45 - 120	05/29/25 06:48	05/30/25 15:03	1
DCB Decachlorobiphenyl	86		45 - 120	05/29/25 06:48	05/30/25 15:03	1
Tetrachloro-m-xylene	55		30 - 124	05/29/25 06:48	05/30/25 15:03	1
Tetrachloro-m-xylene	51		30 - 124	05/29/25 06:48	05/30/25 15:03	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.26	0.051	mg/Kg	✱	05/30/25 06:41	05/30/25 19:43	1
PCB-1221	ND		0.26	0.051	mg/Kg	✱	05/30/25 06:41	05/30/25 19:43	1
PCB-1232	ND		0.26	0.051	mg/Kg	✱	05/30/25 06:41	05/30/25 19:43	1
PCB-1242	ND		0.26	0.051	mg/Kg	✱	05/30/25 06:41	05/30/25 19:43	1
PCB-1248	ND		0.26	0.051	mg/Kg	✱	05/30/25 06:41	05/30/25 19:43	1
PCB-1254	ND		0.26	0.12	mg/Kg	✱	05/30/25 06:41	05/30/25 19:43	1
PCB-1260	ND		0.26	0.12	mg/Kg	✱	05/30/25 06:41	05/30/25 19:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	117		60 - 154	05/30/25 06:41	05/30/25 19:43	1
Tetrachloro-m-xylene	117		60 - 154	05/30/25 06:41	05/30/25 19:43	1
DCB Decachlorobiphenyl	120		65 - 174	05/30/25 06:41	05/30/25 19:43	1
DCB Decachlorobiphenyl	118		65 - 174	05/30/25 06:41	05/30/25 19:43	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.39	0.13	ng/g	✱	06/01/25 11:59	06/02/25 15:28	1
Perfluoropentanoic acid (PFPeA)	0.11	J	0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 15:28	1
Perfluorohexanoic acid (PFHxA)	0.11	J	0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 15:28	1
Perfluoroheptanoic acid (PFHpA)	0.093	J	0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 15:28	1
Perfluorooctanoic acid (PFOA)	0.51		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 15:28	1
Perfluorononanoic acid (PFNA)	ND		0.14	0.14	ng/g	✱	06/01/25 11:59	06/02/25 15:28	1
Perfluorodecanoic acid (PFDA)	0.073	J	0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 15:28	1
Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 15:28	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-18 Fill

Lab Sample ID: 480-229710-17

Date Collected: 05/27/25 13:45

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 84.4

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanoic acid (PFDoA)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 15:28	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 15:28	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 15:28	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 15:28	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 15:28	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 15:28	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 15:28	1
Perfluorooctanesulfonic acid (PFOS)	1.6		0.20	0.11	ng/g	✱	06/01/25 11:59	06/02/25 15:28	1
Perfluorononanesulfonic acid (PFNS)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 15:28	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 15:28	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 15:28	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.39	0.098	ng/g	✱	06/01/25 11:59	06/02/25 15:28	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.39	0.13	ng/g	✱	06/01/25 11:59	06/02/25 15:28	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.39	0.13	ng/g	✱	06/01/25 11:59	06/02/25 15:28	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.089	ng/g	✱	06/01/25 11:59	06/02/25 15:28	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.20	0.089	ng/g	✱	06/01/25 11:59	06/02/25 15:28	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.20	0.098	ng/g	✱	06/01/25 11:59	06/02/25 15:28	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.20	0.079	ng/g	✱	06/01/25 11:59	06/02/25 15:28	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.20	0.11	ng/g	✱	06/01/25 11:59	06/02/25 15:28	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		0.98	0.30	ng/g	✱	06/01/25 11:59	06/02/25 15:28	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		0.98	0.30	ng/g	✱	06/01/25 11:59	06/02/25 15:28	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.20	0.11	ng/g	✱	06/01/25 11:59	06/02/25 15:28	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 15:28	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 15:28	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 15:28	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 15:28	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	ND		0.20	0.089	ng/g	✱	06/01/25 11:59	06/02/25 15:28	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	ND		0.20	0.079	ng/g	✱	06/01/25 11:59	06/02/25 15:28	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 15:28	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.39	0.20	ng/g	✱	06/01/25 11:59	06/02/25 15:28	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		0.98	0.49	ng/g	✱	06/01/25 11:59	06/02/25 15:28	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-18 Fill

Lab Sample ID: 480-229710-17

Date Collected: 05/27/25 13:45

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 84.4

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		0.98	0.39	ng/g	☼	06/01/25 11:59	06/02/25 15:28	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4-PFBA	115		8 - 130				06/01/25 11:59	06/02/25 15:28	1
13C5-PFFeA	120		35 - 130				06/01/25 11:59	06/02/25 15:28	1
13C5-PFHxA	117		40 - 130				06/01/25 11:59	06/02/25 15:28	1
13C4-PFHpA	121		40 - 130				06/01/25 11:59	06/02/25 15:28	1
13C8-PFOA	118		40 - 130				06/01/25 11:59	06/02/25 15:28	1
13C9-PFNA	111		40 - 130				06/01/25 11:59	06/02/25 15:28	1
13C6-PFDA	105		40 - 130				06/01/25 11:59	06/02/25 15:28	1
13C7-PFUnA	117		40 - 130				06/01/25 11:59	06/02/25 15:28	1
13C2-PFTeDA	89.5		20 - 130				06/01/25 11:59	06/02/25 15:28	1
13C3-PFBS	105		40 - 135				06/01/25 11:59	06/02/25 15:28	1
13C3-PFHxS	103		40 - 130				06/01/25 11:59	06/02/25 15:28	1
13C8-PFOS	96.8		40 - 130				06/01/25 11:59	06/02/25 15:28	1
13C8-PFOSA	107		40 - 130				06/01/25 11:59	06/02/25 15:28	1
d3-NMeFOSAA	104		40 - 135				06/01/25 11:59	06/02/25 15:28	1
d5-NEtFOSAA	130		40 - 150				06/01/25 11:59	06/02/25 15:28	1
13C2 4:2 FTS	135		40 - 165				06/01/25 11:59	06/02/25 15:28	1
13C2 6:2 FTS	136		40 - 215				06/01/25 11:59	06/02/25 15:28	1
13C2 8:2 FTS	127		40 - 275				06/01/25 11:59	06/02/25 15:28	1
13C3-HFPO-DA	117		40 - 130				06/01/25 11:59	06/02/25 15:28	1
D7-NMeFOSE	58.2		20 - 130				06/01/25 11:59	06/02/25 15:28	1
D9-NEtFOSE	45.5		15 - 130				06/01/25 11:59	06/02/25 15:28	1
d5-NEtPFOSA	76.3		10 - 130				06/01/25 11:59	06/02/25 15:28	1
d3-NMePFOSA	82.3		10 - 130				06/01/25 11:59	06/02/25 15:28	1
13C2 PFDoA	104		40 - 130				06/01/25 11:59	06/02/25 15:28	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	17500		12.2	10.5	mg/Kg	☼	05/28/25 15:39	05/29/25 19:47	1
Antimony	1.4	J	18.3	0.65	mg/Kg	☼	05/28/25 15:39	05/29/25 19:47	1
Arsenic	13.9		2.4	1.1	mg/Kg	☼	05/28/25 15:39	05/29/25 19:47	1
Barium	92.6		0.61	0.17	mg/Kg	☼	05/28/25 15:39	05/29/25 19:47	1
Beryllium	0.65	^5-	0.24	0.049	mg/Kg	☼	05/28/25 15:39	05/29/25 19:47	1
Cadmium	0.24		0.24	0.085	mg/Kg	☼	05/28/25 15:39	05/29/25 19:47	1
Calcium	2210	^5-	60.9	32.9	mg/Kg	☼	05/28/25 15:39	05/29/25 19:47	1
Chromium	21.5	^5-	0.61	0.44	mg/Kg	☼	05/28/25 15:39	05/29/25 19:47	1
Cobalt	8.5		0.61	0.12	mg/Kg	☼	05/28/25 15:39	05/29/25 19:47	1
Copper	25.8		1.2	0.69	mg/Kg	☼	05/28/25 15:39	05/29/25 19:47	1
Iron	33700		12.2	10.3	mg/Kg	☼	05/28/25 15:39	05/30/25 12:16	1
Lead	64.3		1.2	0.56	mg/Kg	☼	05/28/25 15:39	05/29/25 19:47	1
Magnesium	2990		24.3	10.3	mg/Kg	☼	05/28/25 15:39	05/29/25 19:47	1
Manganese	378		1.2	0.34	mg/Kg	☼	05/28/25 15:39	05/30/25 12:16	1
Nickel	20.5	^5-	6.1	0.30	mg/Kg	☼	05/28/25 15:39	05/29/25 19:47	1
Potassium	2690		36.5	29.5	mg/Kg	☼	05/28/25 15:39	05/29/25 19:47	1
Selenium	1.2	J	4.9	0.97	mg/Kg	☼	05/28/25 15:39	05/29/25 19:47	1
Silver	ND	^5-	0.73	0.24	mg/Kg	☼	05/28/25 15:39	05/29/25 19:47	1
Sodium	93.1	J	170	74.6	mg/Kg	☼	05/28/25 15:39	05/29/25 19:47	1
Thallium	ND		7.3	0.93	mg/Kg	☼	05/28/25 15:39	05/29/25 19:47	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-18 Fill

Lab Sample ID: 480-229710-17

Date Collected: 05/27/25 13:45

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 84.4

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	34.7	^5-	0.61	0.16	mg/Kg	☆	05/28/25 15:39	05/29/25 19:47	1
Zinc	113	^5-	2.4	1.2	mg/Kg	☆	05/28/25 15:39	05/29/25 19:47	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.0		0.023	0.0053	mg/Kg	☆	05/30/25 13:38	05/30/25 15:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		1.1	0.51	mg/Kg	☆	05/31/25 12:17	05/31/25 17:31	1

Client Sample ID: RI-BH-18 Native

Lab Sample ID: 480-229710-18

Date Collected: 05/27/25 14:00

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 86.1

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.8	0.42	ug/Kg	☆	05/28/25 18:17	05/29/25 06:22	1
1,1,2,2-Tetrachloroethane	ND	vs	5.8	0.93	ug/Kg	☆	05/28/25 18:17	05/29/25 06:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.8	1.3	ug/Kg	☆	05/28/25 18:17	05/29/25 06:22	1
1,1,2-Trichloroethane	ND	vs	5.8	0.75	ug/Kg	☆	05/28/25 18:17	05/29/25 06:22	1
1,1-Dichloroethane	ND	vs	5.8	0.70	ug/Kg	☆	05/28/25 18:17	05/29/25 06:22	1
1,1-Dichloroethene	ND	vs	5.8	0.71	ug/Kg	☆	05/28/25 18:17	05/29/25 06:22	1
1,2,4-Trichlorobenzene	ND	vs	5.8	0.35	ug/Kg	☆	05/28/25 18:17	05/29/25 06:22	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.8	2.9	ug/Kg	☆	05/28/25 18:17	05/29/25 06:22	1
1,2-Dichlorobenzene	ND	vs	5.8	0.45	ug/Kg	☆	05/28/25 18:17	05/29/25 06:22	1
1,2-Dichloroethane	ND	vs	5.8	0.29	ug/Kg	☆	05/28/25 18:17	05/29/25 06:22	1
1,2-Dichloropropane	ND	vs	5.8	2.9	ug/Kg	☆	05/28/25 18:17	05/29/25 06:22	1
1,3-Dichlorobenzene	ND	vs	5.8	0.30	ug/Kg	☆	05/28/25 18:17	05/29/25 06:22	1
1,4-Dichlorobenzene	ND	vs	5.8	0.81	ug/Kg	☆	05/28/25 18:17	05/29/25 06:22	1
2-Butanone (MEK)	ND	vs	29	2.1	ug/Kg	☆	05/28/25 18:17	05/29/25 06:22	1
2-Hexanone	ND	vs	29	2.9	ug/Kg	☆	05/28/25 18:17	05/29/25 06:22	1
4-Methyl-2-pentanone (MIBK)	ND	vs	29	1.9	ug/Kg	☆	05/28/25 18:17	05/29/25 06:22	1
Acetone	ND	vs	29	4.9	ug/Kg	☆	05/28/25 18:17	05/29/25 06:22	1
Benzene	ND	vs	5.8	0.28	ug/Kg	☆	05/28/25 18:17	05/29/25 06:22	1
Bromoform	ND	vs	5.8	2.9	ug/Kg	☆	05/28/25 18:17	05/29/25 06:22	1
Bromomethane	ND	vs	5.8	0.52	ug/Kg	☆	05/28/25 18:17	05/29/25 06:22	1
Carbon disulfide	ND	vs	5.8	2.9	ug/Kg	☆	05/28/25 18:17	05/29/25 06:22	1
Carbon tetrachloride	ND	vs	5.8	0.56	ug/Kg	☆	05/28/25 18:17	05/29/25 06:22	1
Chlorobenzene	ND	vs	5.8	0.76	ug/Kg	☆	05/28/25 18:17	05/29/25 06:22	1
Dibromochloromethane	ND	vs	5.8	0.74	ug/Kg	☆	05/28/25 18:17	05/29/25 06:22	1
Chloroethane	ND	vs	5.8	1.3	ug/Kg	☆	05/28/25 18:17	05/29/25 06:22	1
Chloroform	0.59	J vs	5.8	0.36	ug/Kg	☆	05/28/25 18:17	05/29/25 06:22	1
Chloromethane	ND	vs	5.8	0.35	ug/Kg	☆	05/28/25 18:17	05/29/25 06:22	1
cis-1,2-Dichloroethene	ND	vs	5.8	0.74	ug/Kg	☆	05/28/25 18:17	05/29/25 06:22	1
Cyclohexane	ND	vs	5.8	0.81	ug/Kg	☆	05/28/25 18:17	05/29/25 06:22	1
Bromodichloromethane	ND	vs	5.8	0.77	ug/Kg	☆	05/28/25 18:17	05/29/25 06:22	1
Dichlorodifluoromethane	ND	vs	5.8	0.48	ug/Kg	☆	05/28/25 18:17	05/29/25 06:22	1
Ethylbenzene	ND	vs	5.8	0.40	ug/Kg	☆	05/28/25 18:17	05/29/25 06:22	1
1,2-Dibromoethane	ND	vs	5.8	0.74	ug/Kg	☆	05/28/25 18:17	05/29/25 06:22	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-18 Native

Lab Sample ID: 480-229710-18

Date Collected: 05/27/25 14:00

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 86.1

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND	vs	5.8	0.87	ug/Kg	✱	05/28/25 18:17	05/29/25 06:22	1
Methyl acetate	ND	vs	29	3.5	ug/Kg	✱	05/28/25 18:17	05/29/25 06:22	1
Methyl tert-butyl ether	ND	vs	5.8	0.57	ug/Kg	✱	05/28/25 18:17	05/29/25 06:22	1
Methylcyclohexane	ND	vs	5.8	0.88	ug/Kg	✱	05/28/25 18:17	05/29/25 06:22	1
Methylene Chloride	4.7	J B vs	5.8	2.6	ug/Kg	✱	05/28/25 18:17	05/29/25 06:22	1
Tetrachloroethene	ND	vs	5.8	0.77	ug/Kg	✱	05/28/25 18:17	05/29/25 06:22	1
Toluene	ND	vs	5.8	0.44	ug/Kg	✱	05/28/25 18:17	05/29/25 06:22	1
trans-1,2-Dichloroethene	ND	vs	5.8	0.59	ug/Kg	✱	05/28/25 18:17	05/29/25 06:22	1
trans-1,3-Dichloropropene	ND	vs	5.8	2.5	ug/Kg	✱	05/28/25 18:17	05/29/25 06:22	1
Trichloroethene	ND	vs	5.8	1.3	ug/Kg	✱	05/28/25 18:17	05/29/25 06:22	1
Trichlorofluoromethane	ND	vs	5.8	0.54	ug/Kg	✱	05/28/25 18:17	05/29/25 06:22	1
Vinyl chloride	ND	vs	5.8	0.70	ug/Kg	✱	05/28/25 18:17	05/29/25 06:22	1
Xylenes, Total	ND	vs	12	0.97	ug/Kg	✱	05/28/25 18:17	05/29/25 06:22	1
cis-1,3-Dichloropropene	ND	vs	5.8	0.83	ug/Kg	✱	05/28/25 18:17	05/29/25 06:22	1
Styrene	ND	vs	5.8	0.29	ug/Kg	✱	05/28/25 18:17	05/29/25 06:22	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	✱		N/A	05/28/25 18:17	05/29/25 06:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		64 - 126	05/28/25 18:17	05/29/25 06:22	1
4-Bromofluorobenzene (Surr)	107		72 - 126	05/28/25 18:17	05/29/25 06:22	1
Toluene-d8 (Surr)	91		71 - 125	05/28/25 18:17	05/29/25 06:22	1
Dibromofluoromethane (Surr)	110		60 - 140	05/28/25 18:17	05/29/25 06:22	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		120	43	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
2,4,5-Trichlorophenol	ND		200	40	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
2,4,6-Trichlorophenol	ND		200	30	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
2,4-Dichlorophenol	ND		200	38	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
2,4-Dimethylphenol	ND		200	41	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
2,4-Dinitrophenol	ND		1900	37	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
2,4-Dinitrotoluene	ND		200	26	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
2,6-Dinitrotoluene	ND		200	28	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
2-Chloronaphthalene	ND		200	36	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
2-Chlorophenol	ND		200	31	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
2-Methylnaphthalene	ND		200	31	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
2-Methylphenol	ND		200	32	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
2-Nitroaniline	ND		380	33	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
2-Nitrophenol	ND		200	22	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
3,3'-Dichlorobenzidine	ND		380	57	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
3-Nitroaniline	ND		380	28	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
4,6-Dinitro-2-methylphenol	ND		380	43	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
4-Bromophenyl phenyl ether	ND		200	33	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
4-Chloro-3-methylphenol	ND		200	40	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
4-Chloroaniline	ND		200	28	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
4-Chlorophenyl phenyl ether	ND		200	41	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
4-Methylphenol	ND		380	35	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
4-Nitroaniline	ND		380	29	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-18 Native

Lab Sample ID: 480-229710-18

Date Collected: 05/27/25 14:00

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 86.1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	ND		380	53	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
Acenaphthene	ND		200	36	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
Acenaphthylene	ND		200	37	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
Acetophenone	ND		200	34	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
Anthracene	ND		200	36	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
Atrazine	ND		200	66	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
Benzaldehyde	ND		200	150	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
Benzo[a]anthracene	ND		200	27	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
Benzo[a]pyrene	ND		200	33	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
Benzo[b]fluoranthene	ND		200	26	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
Benzo[g,h,i]perylene	ND		200	34	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
Benzo[k]fluoranthene	ND		200	44	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
Biphenyl	ND		200	37	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
bis (2-chloroisopropyl) ether	ND		200	40	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
Bis(2-chloroethoxy)methane	ND		200	37	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
Bis(2-chloroethyl)ether	ND		200	37	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
Bis(2-ethylhexyl) phthalate	ND		200	42	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
Butyl benzyl phthalate	ND		200	36	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
Caprolactam	ND		200	45	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
Carbazole	ND		200	38	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
Chrysene	ND		200	47	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
Dibenz(a,h)anthracene	ND		200	39	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
Dibenzofuran	ND		200	34	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
Diethyl phthalate	ND		200	35	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
Dimethyl phthalate	ND		200	38	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
Di-n-butyl phthalate	ND		200	44	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
Di-n-octyl phthalate	ND		200	37	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
Fluoranthene	ND		200	35	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
Fluorene	ND		200	36	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
Hexachlorobenzene	ND		200	38	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
Hexachlorobutadiene	ND		200	29	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
Hexachlorocyclopentadiene	ND		380	85	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
Hexachloroethane	ND		200	36	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
Indeno[1,2,3-cd]pyrene	ND		200	29	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
Isophorone	ND		200	40	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
Naphthalene	ND		200	32	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
Nitrobenzene	ND		200	33	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
N-Nitrosodi-n-propylamine	ND		200	44	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
N-Nitrosodiphenylamine	ND		200	33	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
Pentachlorophenol	ND		380	62	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
Phenanthrene	ND		200	37	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
Phenol	ND		200	35	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
Pyrene	ND		200	37	ug/Kg	✱	05/29/25 13:50	05/30/25 19:15	1
Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	9000	T J	ug/Kg	✱	2.00	N/A	05/29/25 13:50	05/30/25 19:15	1
Unknown	2500	T J	ug/Kg	✱	3.47	N/A	05/29/25 13:50	05/30/25 19:15	1
Unknown	340	T J	ug/Kg	✱	8.67	N/A	05/29/25 13:50	05/30/25 19:15	1
Decane, 2-methyl-	630	T J N	ug/Kg	✱	9.05	6975-98-0	05/29/25 13:50	05/30/25 19:15	1
Unknown	330	T J	ug/Kg	✱	9.67	N/A	05/29/25 13:50	05/30/25 19:15	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-18 Native

Lab Sample ID: 480-229710-18

Date Collected: 05/27/25 14:00

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 86.1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Hexadecane	530	T J N	ug/Kg	⊛	9.87	544-76-3	05/29/25 13:50	05/30/25 19:15	1
Unknown	880	T J	ug/Kg	⊛	10.12	N/A	05/29/25 13:50	05/30/25 19:15	1
Pentadecane, 2,6,10,14-tetramethyl-	1300	T J N	ug/Kg	⊛	10.40	1921-70-6	05/29/25 13:50	05/30/25 19:15	1
Octadecane	450	T J N	ug/Kg	⊛	10.85	593-45-3	05/29/25 13:50	05/30/25 19:15	1
Octacosane	450	T J N	ug/Kg	⊛	11.27	630-02-4	05/29/25 13:50	05/30/25 19:15	1
Tridecane	490	T J N	ug/Kg	⊛	11.64	629-50-5	05/29/25 13:50	05/30/25 19:15	1
Hexadecane, 7-methyl-	390	T J N	ug/Kg	⊛	11.99	26730-20-1	05/29/25 13:50	05/30/25 19:15	1
Nonadecane	420	T J N	ug/Kg	⊛	12.32	629-92-5	05/29/25 13:50	05/30/25 19:15	1
Unknown	340	T J	ug/Kg	⊛	12.62	N/A	05/29/25 13:50	05/30/25 19:15	1
Dotriacontane	400	T J N	ug/Kg	⊛	12.91	544-85-4	05/29/25 13:50	05/30/25 19:15	1
Tetracosane	400	T J N	ug/Kg	⊛	13.19	646-31-1	05/29/25 13:50	05/30/25 19:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	65		10 - 140	05/29/25 13:50	05/30/25 19:15	1
2-Fluorobiphenyl (Surr)	73		29 - 120	05/29/25 13:50	05/30/25 19:15	1
2-Fluorophenol (Surr)	67		18 - 120	05/29/25 13:50	05/30/25 19:15	1
Nitrobenzene-d5 (Surr)	71		22 - 120	05/29/25 13:50	05/30/25 19:15	1
Phenol-d5 (Surr)	68		23 - 120	05/29/25 13:50	05/30/25 19:15	1
p-Terphenyl-d14 (Surr)	69		28 - 124	05/29/25 13:50	05/30/25 19:15	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		3.8	0.73	ug/Kg	⊛	05/29/25 06:48	05/30/25 15:23	1
4,4'-DDE	ND		3.8	0.79	ug/Kg	⊛	05/29/25 06:48	05/30/25 15:23	1
4,4'-DDT	ND		3.8	0.88	ug/Kg	⊛	05/29/25 06:48	05/30/25 15:23	1
beta-BHC	ND		3.8	0.68	ug/Kg	⊛	05/29/25 06:48	05/30/25 15:23	1
cis-Chlordane	ND		3.8	1.9	ug/Kg	⊛	05/29/25 06:48	05/30/25 15:23	1
alpha-BHC	ND		3.8	0.68	ug/Kg	⊛	05/29/25 06:48	05/30/25 15:23	1
Aldrin	ND		3.8	0.92	ug/Kg	⊛	05/29/25 06:48	05/30/25 15:23	1
delta-BHC	ND		3.8	0.70	ug/Kg	⊛	05/29/25 06:48	05/30/25 15:23	1
Dieldrin	ND		3.8	0.90	ug/Kg	⊛	05/29/25 06:48	05/30/25 15:23	1
Endosulfan I	ND		3.8	0.72	ug/Kg	⊛	05/29/25 06:48	05/30/25 15:23	1
Endosulfan II	ND		3.8	0.68	ug/Kg	⊛	05/29/25 06:48	05/30/25 15:23	1
Endosulfan sulfate	ND		3.8	0.70	ug/Kg	⊛	05/29/25 06:48	05/30/25 15:23	1
Endrin	ND		3.8	0.74	ug/Kg	⊛	05/29/25 06:48	05/30/25 15:23	1
Endrin aldehyde	ND		3.8	0.96	ug/Kg	⊛	05/29/25 06:48	05/30/25 15:23	1
Endrin ketone	1.6	J	3.8	0.92	ug/Kg	⊛	05/29/25 06:48	05/30/25 15:23	1
gamma-BHC (Lindane)	ND		3.8	0.69	ug/Kg	⊛	05/29/25 06:48	05/30/25 15:23	1
trans-Chlordane	ND		3.8	1.2	ug/Kg	⊛	05/29/25 06:48	05/30/25 15:23	1
Heptachlor	ND		3.8	0.81	ug/Kg	⊛	05/29/25 06:48	05/30/25 15:23	1
Heptachlor epoxide	ND		3.8	0.97	ug/Kg	⊛	05/29/25 06:48	05/30/25 15:23	1
Methoxychlor	3.8	B	3.8	0.77	ug/Kg	⊛	05/29/25 06:48	05/30/25 15:23	1
Toxaphene	ND		38	22	ug/Kg	⊛	05/29/25 06:48	05/30/25 15:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	65		45 - 120	05/29/25 06:48	05/30/25 15:23	1
DCB Decachlorobiphenyl	73		45 - 120	05/29/25 06:48	05/30/25 15:23	1
Tetrachloro-m-xylene	63		30 - 124	05/29/25 06:48	05/30/25 15:23	1
Tetrachloro-m-xylene	62		30 - 124	05/29/25 06:48	05/30/25 15:23	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-18 Native

Lab Sample ID: 480-229710-18

Date Collected: 05/27/25 14:00

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 86.1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.23	0.045	mg/Kg	✱	05/30/25 06:41	05/30/25 20:01	1
PCB-1221	ND		0.23	0.045	mg/Kg	✱	05/30/25 06:41	05/30/25 20:01	1
PCB-1232	ND		0.23	0.045	mg/Kg	✱	05/30/25 06:41	05/30/25 20:01	1
PCB-1242	ND		0.23	0.045	mg/Kg	✱	05/30/25 06:41	05/30/25 20:01	1
PCB-1248	ND		0.23	0.045	mg/Kg	✱	05/30/25 06:41	05/30/25 20:01	1
PCB-1254	ND		0.23	0.11	mg/Kg	✱	05/30/25 06:41	05/30/25 20:01	1
PCB-1260	ND		0.23	0.11	mg/Kg	✱	05/30/25 06:41	05/30/25 20:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	123		60 - 154	05/30/25 06:41	05/30/25 20:01	1
Tetrachloro-m-xylene	126		60 - 154	05/30/25 06:41	05/30/25 20:01	1
DCB Decachlorobiphenyl	127		65 - 174	05/30/25 06:41	05/30/25 20:01	1
DCB Decachlorobiphenyl	128		65 - 174	05/30/25 06:41	05/30/25 20:01	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.39	0.13	ng/g	✱	06/01/25 11:59	06/02/25 15:42	1
Perfluoropentanoic acid (PFPeA)	ND		0.19	0.048	ng/g	✱	06/01/25 11:59	06/02/25 15:42	1
Perfluorohexanoic acid (PFHxA)	ND		0.19	0.058	ng/g	✱	06/01/25 11:59	06/02/25 15:42	1
Perfluoroheptanoic acid (PFHpA)	ND		0.19	0.067	ng/g	✱	06/01/25 11:59	06/02/25 15:42	1
Perfluorooctanoic acid (PFOA)	ND		0.19	0.058	ng/g	✱	06/01/25 11:59	06/02/25 15:42	1
Perfluorononanoic acid (PFNA)	ND		0.19	0.058	ng/g	✱	06/01/25 11:59	06/02/25 15:42	1
Perfluorodecanoic acid (PFDA)	ND		0.19	0.048	ng/g	✱	06/01/25 11:59	06/02/25 15:42	1
Perfluoroundecanoic acid (PFUnA)	ND		0.19	0.048	ng/g	✱	06/01/25 11:59	06/02/25 15:42	1
Perfluorododecanoic acid (PFDoA)	ND		0.19	0.048	ng/g	✱	06/01/25 11:59	06/02/25 15:42	1
Perfluorotridecanoic acid (PFTTrDA)	ND		0.19	0.067	ng/g	✱	06/01/25 11:59	06/02/25 15:42	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.19	0.067	ng/g	✱	06/01/25 11:59	06/02/25 15:42	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.19	0.067	ng/g	✱	06/01/25 11:59	06/02/25 15:42	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.19	0.058	ng/g	✱	06/01/25 11:59	06/02/25 15:42	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.19	0.048	ng/g	✱	06/01/25 11:59	06/02/25 15:42	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.19	0.067	ng/g	✱	06/01/25 11:59	06/02/25 15:42	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.19	0.11	ng/g	✱	06/01/25 11:59	06/02/25 15:42	1
Perfluorononanesulfonic acid (PFNS)	ND		0.19	0.067	ng/g	✱	06/01/25 11:59	06/02/25 15:42	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.19	0.048	ng/g	✱	06/01/25 11:59	06/02/25 15:42	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.19	0.058	ng/g	✱	06/01/25 11:59	06/02/25 15:42	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.39	0.096	ng/g	✱	06/01/25 11:59	06/02/25 15:42	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.39	0.13	ng/g	✱	06/01/25 11:59	06/02/25 15:42	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.39	0.13	ng/g	✱	06/01/25 11:59	06/02/25 15:42	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.19	0.087	ng/g	✱	06/01/25 11:59	06/02/25 15:42	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.19	0.087	ng/g	✱	06/01/25 11:59	06/02/25 15:42	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.19	0.096	ng/g	✱	06/01/25 11:59	06/02/25 15:42	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.19	0.077	ng/g	✱	06/01/25 11:59	06/02/25 15:42	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-18 Native

Lab Sample ID: 480-229710-18

Date Collected: 05/27/25 14:00

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 86.1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.19	0.11	ng/g	☼	06/01/25 11:59	06/02/25 15:42	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		0.96	0.29	ng/g	☼	06/01/25 11:59	06/02/25 15:42	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		0.96	0.29	ng/g	☼	06/01/25 11:59	06/02/25 15:42	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.19	0.11	ng/g	☼	06/01/25 11:59	06/02/25 15:42	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.19	0.058	ng/g	☼	06/01/25 11:59	06/02/25 15:42	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.19	0.067	ng/g	☼	06/01/25 11:59	06/02/25 15:42	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.19	0.048	ng/g	☼	06/01/25 11:59	06/02/25 15:42	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.19	0.067	ng/g	☼	06/01/25 11:59	06/02/25 15:42	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.19	0.087	ng/g	☼	06/01/25 11:59	06/02/25 15:42	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.19	0.077	ng/g	☼	06/01/25 11:59	06/02/25 15:42	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.19	0.048	ng/g	☼	06/01/25 11:59	06/02/25 15:42	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.39	0.19	ng/g	☼	06/01/25 11:59	06/02/25 15:42	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		0.96	0.48	ng/g	☼	06/01/25 11:59	06/02/25 15:42	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		0.96	0.39	ng/g	☼	06/01/25 11:59	06/02/25 15:42	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	117		8 - 130	06/01/25 11:59	06/02/25 15:42	1
13C5-PFPeA	127		35 - 130	06/01/25 11:59	06/02/25 15:42	1
13C5-PFHxA	118		40 - 130	06/01/25 11:59	06/02/25 15:42	1
13C4-PFHpA	117		40 - 130	06/01/25 11:59	06/02/25 15:42	1
13C8-PFOA	107		40 - 130	06/01/25 11:59	06/02/25 15:42	1
13C9-PFNA	102		40 - 130	06/01/25 11:59	06/02/25 15:42	1
13C6-PFDA	108		40 - 130	06/01/25 11:59	06/02/25 15:42	1
13C7-PFUnA	116		40 - 130	06/01/25 11:59	06/02/25 15:42	1
13C2-PFTeDA	83.6		20 - 130	06/01/25 11:59	06/02/25 15:42	1
13C3-PFBS	112		40 - 135	06/01/25 11:59	06/02/25 15:42	1
13C3-PFHxS	101		40 - 130	06/01/25 11:59	06/02/25 15:42	1
13C8-PFOS	94.4		40 - 130	06/01/25 11:59	06/02/25 15:42	1
13C8-PFOSA	94.5		40 - 130	06/01/25 11:59	06/02/25 15:42	1
d3-NMeFOSAA	88.6		40 - 135	06/01/25 11:59	06/02/25 15:42	1
d5-NEtFOSAA	114		40 - 150	06/01/25 11:59	06/02/25 15:42	1
13C2 4:2 FTS	111		40 - 165	06/01/25 11:59	06/02/25 15:42	1
13C2 6:2 FTS	118		40 - 215	06/01/25 11:59	06/02/25 15:42	1
13C2 8:2 FTS	105		40 - 275	06/01/25 11:59	06/02/25 15:42	1
13C3-HFPO-DA	123		40 - 130	06/01/25 11:59	06/02/25 15:42	1
D7-NMeFOSE	53.6		20 - 130	06/01/25 11:59	06/02/25 15:42	1
D9-NEtFOSE	45.2		15 - 130	06/01/25 11:59	06/02/25 15:42	1
d5-NEtPFOSA	69.6		10 - 130	06/01/25 11:59	06/02/25 15:42	1
d3-NMePFOSA	78.0		10 - 130	06/01/25 11:59	06/02/25 15:42	1
13C2 PFDoA	107		40 - 130	06/01/25 11:59	06/02/25 15:42	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-18 Native

Lab Sample ID: 480-229710-18

Date Collected: 05/27/25 14:00

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 86.1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9160		11.6	10	mg/Kg	✱	05/29/25 15:23	05/30/25 22:16	1
Antimony	0.66	J	17.3	0.61	mg/Kg	✱	05/29/25 15:23	05/30/25 22:16	1
Arsenic	13.0		2.3	1.0	mg/Kg	✱	05/29/25 15:23	05/30/25 22:16	1
Barium	164		0.58	0.16	mg/Kg	✱	05/29/25 15:23	05/30/25 22:16	1
Beryllium	0.59	^5-	0.23	0.046	mg/Kg	✱	05/29/25 15:23	05/30/25 22:16	1
Cadmium	0.33		0.23	0.081	mg/Kg	✱	05/29/25 15:23	05/30/25 22:16	1
Calcium	16400		57.8	31.2	mg/Kg	✱	05/29/25 15:23	06/04/25 19:22	1
Chromium	12.6		0.58	0.42	mg/Kg	✱	05/29/25 15:23	05/30/25 22:16	1
Cobalt	10.9		0.58	0.12	mg/Kg	✱	05/29/25 15:23	05/30/25 22:16	1
Copper	51.0		1.2	0.66	mg/Kg	✱	05/29/25 15:23	05/30/25 22:16	1
Iron	24900	^2 ^+	11.6	9.8	mg/Kg	✱	05/29/25 15:23	05/30/25 22:16	1
Lead	23.5		1.2	0.53	mg/Kg	✱	05/29/25 15:23	05/30/25 22:16	1
Magnesium	5030		23.1	9.8	mg/Kg	✱	05/29/25 15:23	05/30/25 22:16	1
Manganese	261		1.2	0.32	mg/Kg	✱	05/29/25 15:23	06/04/25 19:22	1
Nickel	29.7	^5-	5.8	0.29	mg/Kg	✱	05/29/25 15:23	05/30/25 22:16	1
Potassium	2120		34.7	28.0	mg/Kg	✱	05/29/25 15:23	05/30/25 22:16	1
Selenium	ND		4.6	0.92	mg/Kg	✱	05/29/25 15:23	05/30/25 22:16	1
Silver	ND	^5-	0.69	0.23	mg/Kg	✱	05/29/25 15:23	06/04/25 19:22	1
Sodium	105	J	162	70.8	mg/Kg	✱	05/29/25 15:23	06/04/25 19:22	1
Thallium	ND		6.9	0.88	mg/Kg	✱	05/29/25 15:23	05/30/25 22:16	1
Vanadium	16.7		0.58	0.15	mg/Kg	✱	05/29/25 15:23	05/30/25 22:16	1
Zinc	80.8	^5-	2.3	1.2	mg/Kg	✱	05/29/25 15:23	05/30/25 22:16	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	J	0.024	0.0056	mg/Kg	✱	05/30/25 13:38	05/30/25 15:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.99	0.48	mg/Kg	✱	05/31/25 12:17	05/31/25 17:32	1

Client Sample ID: RI-BH-1 Fill

Lab Sample ID: 480-229710-19

Date Collected: 05/27/25 09:15

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 79.8

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	6.1	0.44	ug/Kg	✱	05/29/25 18:01	05/29/25 21:59	1
1,1,1,2,2-Tetrachloroethane	ND	*3 vs	6.1	0.99	ug/Kg	✱	05/29/25 18:01	05/29/25 21:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.1	1.4	ug/Kg	✱	05/29/25 18:01	05/29/25 21:59	1
1,1,2-Trichloroethane	ND	*3 vs	6.1	0.79	ug/Kg	✱	05/29/25 18:01	05/29/25 21:59	1
1,1-Dichloroethane	ND	vs	6.1	0.75	ug/Kg	✱	05/29/25 18:01	05/29/25 21:59	1
1,1-Dichloroethene	ND	vs	6.1	0.75	ug/Kg	✱	05/29/25 18:01	05/29/25 21:59	1
1,2,4-Trichlorobenzene	ND	*3 vs	6.1	0.37	ug/Kg	✱	05/29/25 18:01	05/29/25 21:59	1
1,2-Dibromo-3-Chloropropane	ND	*3 vs	6.1	3.1	ug/Kg	✱	05/29/25 18:01	05/29/25 21:59	1
1,2-Dichlorobenzene	ND	*3 vs	6.1	0.48	ug/Kg	✱	05/29/25 18:01	05/29/25 21:59	1
1,2-Dichloroethane	ND	vs	6.1	0.31	ug/Kg	✱	05/29/25 18:01	05/29/25 21:59	1
1,2-Dichloropropane	ND	vs	6.1	3.1	ug/Kg	✱	05/29/25 18:01	05/29/25 21:59	1
1,3-Dichlorobenzene	ND	*3 vs	6.1	0.31	ug/Kg	✱	05/29/25 18:01	05/29/25 21:59	1
1,4-Dichlorobenzene	ND	*3 vs	6.1	0.86	ug/Kg	✱	05/29/25 18:01	05/29/25 21:59	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-1 Fill

Lab Sample ID: 480-229710-19

Date Collected: 05/27/25 09:15

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 79.8

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND	vs	31	2.2	ug/Kg	☼	05/29/25 18:01	05/29/25 21:59	1
2-Hexanone	ND	*3 vs	31	3.1	ug/Kg	☼	05/29/25 18:01	05/29/25 21:59	1
4-Methyl-2-pentanone (MIBK)	ND	*3 vs	31	2.0	ug/Kg	☼	05/29/25 18:01	05/29/25 21:59	1
Acetone	13	J vs	31	5.1	ug/Kg	☼	05/29/25 18:01	05/29/25 21:59	1
Benzene	ND	vs	6.1	0.30	ug/Kg	☼	05/29/25 18:01	05/29/25 21:59	1
Bromoform	ND	*3 vs	6.1	3.1	ug/Kg	☼	05/29/25 18:01	05/29/25 21:59	1
Bromomethane	ND	vs	6.1	0.55	ug/Kg	☼	05/29/25 18:01	05/29/25 21:59	1
Carbon disulfide	ND	vs	6.1	3.1	ug/Kg	☼	05/29/25 18:01	05/29/25 21:59	1
Carbon tetrachloride	ND	vs	6.1	0.59	ug/Kg	☼	05/29/25 18:01	05/29/25 21:59	1
Chlorobenzene	ND	*3 vs	6.1	0.81	ug/Kg	☼	05/29/25 18:01	05/29/25 21:59	1
Dibromochloromethane	ND	*3 vs	6.1	0.78	ug/Kg	☼	05/29/25 18:01	05/29/25 21:59	1
Chloroethane	ND	vs	6.1	1.4	ug/Kg	☼	05/29/25 18:01	05/29/25 21:59	1
Chloroform	0.59	J vs	6.1	0.38	ug/Kg	☼	05/29/25 18:01	05/29/25 21:59	1
Chloromethane	ND	vs	6.1	0.37	ug/Kg	☼	05/29/25 18:01	05/29/25 21:59	1
cis-1,2-Dichloroethene	ND	vs	6.1	0.78	ug/Kg	☼	05/29/25 18:01	05/29/25 21:59	1
Cyclohexane	ND	vs	6.1	0.86	ug/Kg	☼	05/29/25 18:01	05/29/25 21:59	1
Bromodichloromethane	ND	vs	6.1	0.82	ug/Kg	☼	05/29/25 18:01	05/29/25 21:59	1
Dichlorodifluoromethane	ND	vs	6.1	0.50	ug/Kg	☼	05/29/25 18:01	05/29/25 21:59	1
Ethylbenzene	ND	*3 vs	6.1	0.42	ug/Kg	☼	05/29/25 18:01	05/29/25 21:59	1
1,2-Dibromoethane	ND	*3 vs	6.1	0.78	ug/Kg	☼	05/29/25 18:01	05/29/25 21:59	1
Isopropylbenzene	ND	*3 vs	6.1	0.92	ug/Kg	☼	05/29/25 18:01	05/29/25 21:59	1
Methyl acetate	ND	vs	31	3.7	ug/Kg	☼	05/29/25 18:01	05/29/25 21:59	1
Methyl tert-butyl ether	ND	vs	6.1	0.60	ug/Kg	☼	05/29/25 18:01	05/29/25 21:59	1
Methylcyclohexane	ND	vs	6.1	0.93	ug/Kg	☼	05/29/25 18:01	05/29/25 21:59	1
Methylene Chloride	7.3	vs	6.1	2.8	ug/Kg	☼	05/29/25 18:01	05/29/25 21:59	1
Tetrachloroethene	ND	*3 vs	6.1	0.82	ug/Kg	☼	05/29/25 18:01	05/29/25 21:59	1
Toluene	0.64	J *3 vs	6.1	0.46	ug/Kg	☼	05/29/25 18:01	05/29/25 21:59	1
trans-1,2-Dichloroethene	ND	vs	6.1	0.63	ug/Kg	☼	05/29/25 18:01	05/29/25 21:59	1
trans-1,3-Dichloropropene	ND	*3 vs	6.1	2.7	ug/Kg	☼	05/29/25 18:01	05/29/25 21:59	1
Trichloroethene	ND	vs	6.1	1.3	ug/Kg	☼	05/29/25 18:01	05/29/25 21:59	1
Trichlorofluoromethane	ND	vs	6.1	0.58	ug/Kg	☼	05/29/25 18:01	05/29/25 21:59	1
Vinyl chloride	ND	vs	6.1	0.75	ug/Kg	☼	05/29/25 18:01	05/29/25 21:59	1
Xylenes, Total	ND	vs	12	1.0	ug/Kg	☼	05/29/25 18:01	05/29/25 21:59	1
cis-1,3-Dichloropropene	ND	vs	6.1	0.88	ug/Kg	☼	05/29/25 18:01	05/29/25 21:59	1
Styrene	ND	*3 vs	6.1	0.31	ug/Kg	☼	05/29/25 18:01	05/29/25 21:59	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼		N/A	05/29/25 18:01	05/29/25 21:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		64 - 126	05/29/25 18:01	05/29/25 21:59	1
4-Bromofluorobenzene (Surr)	74	*3	72 - 126	05/29/25 18:01	05/29/25 21:59	1
Toluene-d8 (Surr)	144	S1+ *3	71 - 125	05/29/25 18:01	05/29/25 21:59	1
Dibromofluoromethane (Surr)	123		60 - 140	05/29/25 18:01	05/29/25 21:59	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		120	46	ug/Kg	☼	05/29/25 13:50	05/30/25 19:39	1
2,4,5-Trichlorophenol	ND		210	43	ug/Kg	☼	05/29/25 13:50	05/30/25 19:39	1
2,4,6-Trichlorophenol	ND		210	32	ug/Kg	☼	05/29/25 13:50	05/30/25 19:39	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-1 Fill

Lab Sample ID: 480-229710-19

Date Collected: 05/27/25 09:15

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 79.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		210	41	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
2,4-Dimethylphenol	ND		210	44	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
2,4-Dinitrophenol	ND		2100	40	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
2,4-Dinitrotoluene	ND		210	29	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
2,6-Dinitrotoluene	ND		210	30	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
2-Chloronaphthalene	ND		210	39	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
2-Chlorophenol	ND		210	33	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
2-Methylnaphthalene	73	J	210	33	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
2-Methylphenol	ND		210	34	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
2-Nitroaniline	ND		410	36	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
2-Nitrophenol	ND		210	24	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
3,3'-Dichlorobenzidine	ND		410	62	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
3-Nitroaniline	ND		410	30	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
4,6-Dinitro-2-methylphenol	ND		410	46	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
4-Bromophenyl phenyl ether	ND		210	36	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
4-Chloro-3-methylphenol	ND		210	43	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
4-Chloroaniline	ND		210	30	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
4-Chlorophenyl phenyl ether	ND		210	44	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
4-Methylphenol	ND		410	38	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
4-Nitroaniline	ND		410	31	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
4-Nitrophenol	ND		410	58	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
Acenaphthene	49	J	210	39	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
Acenaphthylene	ND		210	41	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
Acetophenone	ND		210	37	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
Anthracene	87	J	210	39	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
Atrazine	ND		210	71	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
Benzaldehyde	ND		210	160	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
Benzo[a]anthracene	290		210	29	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
Benzo[a]pyrene	220		210	36	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
Benzo[b]fluoranthene	390		210	28	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
Benzo[g,h,i]perylene	150	J	210	37	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
Benzo[k]fluoranthene	210		210	47	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
Biphenyl	ND		210	40	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
bis (2-chloroisopropyl) ether	ND		210	43	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
Bis(2-chloroethoxy)methane	ND		210	40	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
Bis(2-chloroethyl)ether	ND		210	40	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
Bis(2-ethylhexyl) phthalate	ND		210	46	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
Butyl benzyl phthalate	ND		210	39	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
Caprolactam	ND		210	49	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
Carbazole	47	J	210	41	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
Chrysene	410		210	51	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
Dibenz(a,h)anthracene	52	J	210	43	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
Dibenzofuran	ND		210	37	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
Diethyl phthalate	ND		210	38	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
Dimethyl phthalate	ND		210	41	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
Di-n-butyl phthalate	ND		210	47	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
Di-n-octyl phthalate	ND		210	40	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
Fluoranthene	1100		210	38	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1
Fluorene	ND		210	39	ug/Kg	✱	05/29/25 13:50	05/30/25 19:39	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-1 Fill

Lab Sample ID: 480-229710-19

Date Collected: 05/27/25 09:15

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 79.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	ND		210	41	ug/Kg	☼	05/29/25 13:50	05/30/25 19:39	1
Hexachlorobutadiene	ND		210	32	ug/Kg	☼	05/29/25 13:50	05/30/25 19:39	1
Hexachlorocyclopentadiene	ND		410	92	ug/Kg	☼	05/29/25 13:50	05/30/25 19:39	1
Hexachloroethane	ND		210	39	ug/Kg	☼	05/29/25 13:50	05/30/25 19:39	1
Indeno[1,2,3-cd]pyrene	120	J	210	31	ug/Kg	☼	05/29/25 13:50	05/30/25 19:39	1
Isophorone	ND		210	43	ug/Kg	☼	05/29/25 13:50	05/30/25 19:39	1
Naphthalene	51	J	210	35	ug/Kg	☼	05/29/25 13:50	05/30/25 19:39	1
Nitrobenzene	ND		210	35	ug/Kg	☼	05/29/25 13:50	05/30/25 19:39	1
N-Nitrosodi-n-propylamine	ND		210	47	ug/Kg	☼	05/29/25 13:50	05/30/25 19:39	1
N-Nitrosodiphenylamine	ND		210	35	ug/Kg	☼	05/29/25 13:50	05/30/25 19:39	1
Pentachlorophenol	ND		410	67	ug/Kg	☼	05/29/25 13:50	05/30/25 19:39	1
Phenanthrene	560		210	40	ug/Kg	☼	05/29/25 13:50	05/30/25 19:39	1
Phenol	ND		210	38	ug/Kg	☼	05/29/25 13:50	05/30/25 19:39	1
Pyrene	720		210	40	ug/Kg	☼	05/29/25 13:50	05/30/25 19:39	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	4600	T J	ug/Kg	☼	3.47	N/A	05/29/25 13:50	05/30/25 19:39	1
Unknown	410	T J	ug/Kg	☼	9.56	N/A	05/29/25 13:50	05/30/25 19:39	1
Eicosane	410	T J N	ug/Kg	☼	10.40	112-95-8	05/29/25 13:50	05/30/25 19:39	1
Unknown	380	T J	ug/Kg	☼	11.48	N/A	05/29/25 13:50	05/30/25 19:39	1
Unknown	360	T J	ug/Kg	☼	13.48	N/A	05/29/25 13:50	05/30/25 19:39	1
Unknown	330	T J	ug/Kg	☼	14.22	N/A	05/29/25 13:50	05/30/25 19:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	41		10 - 140	05/29/25 13:50	05/30/25 19:39	1
2-Fluorobiphenyl (Surr)	67		29 - 120	05/29/25 13:50	05/30/25 19:39	1
2-Fluorophenol (Surr)	56		18 - 120	05/29/25 13:50	05/30/25 19:39	1
Nitrobenzene-d5 (Surr)	63		22 - 120	05/29/25 13:50	05/30/25 19:39	1
Phenol-d5 (Surr)	49		23 - 120	05/29/25 13:50	05/30/25 19:39	1
p-Terphenyl-d14 (Surr)	45		28 - 124	05/29/25 13:50	05/30/25 19:39	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.1	0.79	ug/Kg	☼	05/29/25 06:48	05/30/25 15:42	1
4,4'-DDE	ND		4.1	0.86	ug/Kg	☼	05/29/25 06:48	05/30/25 15:42	1
4,4'-DDT	3.7	J	4.1	0.96	ug/Kg	☼	05/29/25 06:48	05/30/25 15:42	1
beta-BHC	ND		4.1	0.73	ug/Kg	☼	05/29/25 06:48	05/30/25 15:42	1
cis-Chlordane	ND		4.1	2.0	ug/Kg	☼	05/29/25 06:48	05/30/25 15:42	1
alpha-BHC	ND		4.1	0.73	ug/Kg	☼	05/29/25 06:48	05/30/25 15:42	1
Aldrin	ND		4.1	1.0	ug/Kg	☼	05/29/25 06:48	05/30/25 15:42	1
delta-BHC	ND		4.1	0.76	ug/Kg	☼	05/29/25 06:48	05/30/25 15:42	1
Dieldrin	ND		4.1	0.98	ug/Kg	☼	05/29/25 06:48	05/30/25 15:42	1
Endosulfan I	ND		4.1	0.78	ug/Kg	☼	05/29/25 06:48	05/30/25 15:42	1
Endosulfan II	ND		4.1	0.73	ug/Kg	☼	05/29/25 06:48	05/30/25 15:42	1
Endosulfan sulfate	ND		4.1	0.76	ug/Kg	☼	05/29/25 06:48	05/30/25 15:42	1
Endrin	ND		4.1	0.81	ug/Kg	☼	05/29/25 06:48	05/30/25 15:42	1
Endrin aldehyde	ND		4.1	1.0	ug/Kg	☼	05/29/25 06:48	05/30/25 15:42	1
Endrin ketone	ND		4.1	1.0	ug/Kg	☼	05/29/25 06:48	05/30/25 15:42	1
gamma-BHC (Lindane)	1.3	J	4.1	0.75	ug/Kg	☼	05/29/25 06:48	05/30/25 15:42	1
trans-Chlordane	ND		4.1	1.3	ug/Kg	☼	05/29/25 06:48	05/30/25 15:42	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-1 Fill

Lab Sample ID: 480-229710-19

Date Collected: 05/27/25 09:15

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 79.8

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		4.1	0.88	ug/Kg	✱	05/29/25 06:48	05/30/25 15:42	1
Heptachlor epoxide	ND		4.1	1.1	ug/Kg	✱	05/29/25 06:48	05/30/25 15:42	1
Methoxychlor	3.8	J B	4.1	0.83	ug/Kg	✱	05/29/25 06:48	05/30/25 15:42	1
Toxaphene	ND		41	24	ug/Kg	✱	05/29/25 06:48	05/30/25 15:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	75		45 - 120	05/29/25 06:48	05/30/25 15:42	1
DCB Decachlorobiphenyl	82		45 - 120	05/29/25 06:48	05/30/25 15:42	1
Tetrachloro-m-xylene	56		30 - 124	05/29/25 06:48	05/30/25 15:42	1
Tetrachloro-m-xylene	53		30 - 124	05/29/25 06:48	05/30/25 15:42	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.23	0.046	mg/Kg	✱	05/30/25 06:41	05/30/25 20:19	1
PCB-1221	ND		0.23	0.046	mg/Kg	✱	05/30/25 06:41	05/30/25 20:19	1
PCB-1232	ND		0.23	0.046	mg/Kg	✱	05/30/25 06:41	05/30/25 20:19	1
PCB-1242	ND		0.23	0.046	mg/Kg	✱	05/30/25 06:41	05/30/25 20:19	1
PCB-1248	ND		0.23	0.046	mg/Kg	✱	05/30/25 06:41	05/30/25 20:19	1
PCB-1254	ND		0.23	0.11	mg/Kg	✱	05/30/25 06:41	05/30/25 20:19	1
PCB-1260	ND		0.23	0.11	mg/Kg	✱	05/30/25 06:41	05/30/25 20:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	116		60 - 154	05/30/25 06:41	05/30/25 20:19	1
Tetrachloro-m-xylene	121		60 - 154	05/30/25 06:41	05/30/25 20:19	1
DCB Decachlorobiphenyl	115		65 - 174	05/30/25 06:41	05/30/25 20:19	1
DCB Decachlorobiphenyl	119		65 - 174	05/30/25 06:41	05/30/25 20:19	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.39	0.13	ng/g	✱	06/01/25 11:59	06/02/25 15:55	1
Perfluoropentanoic acid (PFPeA)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 15:55	1
Perfluorohexanoic acid (PFHxA)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 15:55	1
Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 15:55	1
Perfluorooctanoic acid (PFOA)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 15:55	1
Perfluorononanoic acid (PFNA)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 15:55	1
Perfluorodecanoic acid (PFDA)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 15:55	1
Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 15:55	1
Perfluorododecanoic acid (PFDoA)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 15:55	1
Perfluorotridecanoic acid (PFTTrDA)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 15:55	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 15:55	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 15:55	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 15:55	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 15:55	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 15:55	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.20	0.11	ng/g	✱	06/01/25 11:59	06/02/25 15:55	1
Perfluorononanesulfonic acid (PFNS)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 15:55	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 15:55	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 15:55	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-1 Fill

Lab Sample ID: 480-229710-19

Date Collected: 05/27/25 09:15

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 79.8

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.39	0.098	ng/g	☼	06/01/25 11:59	06/02/25 15:55	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.39	0.13	ng/g	☼	06/01/25 11:59	06/02/25 15:55	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.39	0.13	ng/g	☼	06/01/25 11:59	06/02/25 15:55	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.088	ng/g	☼	06/01/25 11:59	06/02/25 15:55	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.20	0.088	ng/g	☼	06/01/25 11:59	06/02/25 15:55	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.20	0.098	ng/g	☼	06/01/25 11:59	06/02/25 15:55	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.20	0.079	ng/g	☼	06/01/25 11:59	06/02/25 15:55	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.20	0.11	ng/g	☼	06/01/25 11:59	06/02/25 15:55	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		0.98	0.29	ng/g	☼	06/01/25 11:59	06/02/25 15:55	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		0.98	0.29	ng/g	☼	06/01/25 11:59	06/02/25 15:55	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.20	0.11	ng/g	☼	06/01/25 11:59	06/02/25 15:55	1
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND		0.20	0.059	ng/g	☼	06/01/25 11:59	06/02/25 15:55	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.20	0.069	ng/g	☼	06/01/25 11:59	06/02/25 15:55	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.20	0.049	ng/g	☼	06/01/25 11:59	06/02/25 15:55	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.20	0.069	ng/g	☼	06/01/25 11:59	06/02/25 15:55	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.20	0.088	ng/g	☼	06/01/25 11:59	06/02/25 15:55	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.20	0.079	ng/g	☼	06/01/25 11:59	06/02/25 15:55	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.20	0.049	ng/g	☼	06/01/25 11:59	06/02/25 15:55	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.39	0.20	ng/g	☼	06/01/25 11:59	06/02/25 15:55	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		0.98	0.49	ng/g	☼	06/01/25 11:59	06/02/25 15:55	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		0.98	0.39	ng/g	☼	06/01/25 11:59	06/02/25 15:55	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4-PFBA	119		8 - 130				06/01/25 11:59	06/02/25 15:55	1
13C5-PFPeA	121		35 - 130				06/01/25 11:59	06/02/25 15:55	1
13C5-PFHxA	116		40 - 130				06/01/25 11:59	06/02/25 15:55	1
13C4-PFHpA	116		40 - 130				06/01/25 11:59	06/02/25 15:55	1
13C8-PFOA	110		40 - 130				06/01/25 11:59	06/02/25 15:55	1
13C9-PFNA	108		40 - 130				06/01/25 11:59	06/02/25 15:55	1
13C6-PFDA	99.6		40 - 130				06/01/25 11:59	06/02/25 15:55	1
13C7-PFUnA	106		40 - 130				06/01/25 11:59	06/02/25 15:55	1
13C2-PFTeDA	58.0		20 - 130				06/01/25 11:59	06/02/25 15:55	1
13C3-PFBS	117		40 - 135				06/01/25 11:59	06/02/25 15:55	1
13C3-PFHxS	102		40 - 130				06/01/25 11:59	06/02/25 15:55	1
13C8-PFOS	86.4		40 - 130				06/01/25 11:59	06/02/25 15:55	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-1 Fill

Lab Sample ID: 480-229710-19

Date Collected: 05/27/25 09:15

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 79.8

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8-PFOSA	99.9		40 - 130	06/01/25 11:59	06/02/25 15:55	1
d3-NMeFOSAA	86.4		40 - 135	06/01/25 11:59	06/02/25 15:55	1
d5-NEtFOSAA	113		40 - 150	06/01/25 11:59	06/02/25 15:55	1
13C2 4:2 FTS	140		40 - 165	06/01/25 11:59	06/02/25 15:55	1
13C2 6:2 FTS	133		40 - 215	06/01/25 11:59	06/02/25 15:55	1
13C2 8:2 FTS	110		40 - 275	06/01/25 11:59	06/02/25 15:55	1
13C3-HFPO-DA	119		40 - 130	06/01/25 11:59	06/02/25 15:55	1
D7-NMeFOSE	48.1		20 - 130	06/01/25 11:59	06/02/25 15:55	1
D9-NEtFOSE	38.4		15 - 130	06/01/25 11:59	06/02/25 15:55	1
d5-NEtPFOSA	66.6		10 - 130	06/01/25 11:59	06/02/25 15:55	1
d3-NMePFOSA	77.3		10 - 130	06/01/25 11:59	06/02/25 15:55	1
13C2 PFDoA	90.1		40 - 130	06/01/25 11:59	06/02/25 15:55	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	16900		13.2	11.3	mg/Kg	✱	05/29/25 15:23	05/30/25 22:18	1
Antimony	ND		19.7	0.70	mg/Kg	✱	05/29/25 15:23	05/30/25 22:18	1
Arsenic	7.6		2.6	1.2	mg/Kg	✱	05/29/25 15:23	05/30/25 22:18	1
Barium	235		0.66	0.18	mg/Kg	✱	05/29/25 15:23	05/30/25 22:18	1
Beryllium	1.1	^5-	0.26	0.053	mg/Kg	✱	05/29/25 15:23	05/30/25 22:18	1
Cadmium	0.32		0.26	0.092	mg/Kg	✱	05/29/25 15:23	05/30/25 22:18	1
Calcium	2830	^5-	65.8	35.5	mg/Kg	✱	05/29/25 15:23	05/30/25 22:18	1
Chromium	19.4		0.66	0.47	mg/Kg	✱	05/29/25 15:23	05/30/25 22:18	1
Cobalt	8.9		0.66	0.13	mg/Kg	✱	05/29/25 15:23	05/30/25 22:18	1
Copper	56.5		1.3	0.75	mg/Kg	✱	05/29/25 15:23	05/30/25 22:18	1
Iron	23300	^2 ^+	13.2	11.2	mg/Kg	✱	05/29/25 15:23	05/30/25 22:18	1
Lead	283		1.3	0.61	mg/Kg	✱	05/29/25 15:23	05/30/25 22:18	1
Magnesium	2680		26.3	11.2	mg/Kg	✱	05/29/25 15:23	05/30/25 22:18	1
Manganese	194	^5-	1.3	0.37	mg/Kg	✱	05/29/25 15:23	05/30/25 22:18	1
Nickel	25.6	^5-	6.6	0.33	mg/Kg	✱	05/29/25 15:23	05/30/25 22:18	1
Potassium	2470		39.5	31.9	mg/Kg	✱	05/29/25 15:23	05/30/25 22:18	1
Selenium	ND		5.3	1.1	mg/Kg	✱	05/29/25 15:23	05/30/25 22:18	1
Silver	ND	^5-	0.79	0.26	mg/Kg	✱	05/29/25 15:23	06/04/25 19:24	1
Sodium	314		184	80.7	mg/Kg	✱	05/29/25 15:23	06/04/25 19:24	1
Thallium	ND		7.9	1.0	mg/Kg	✱	05/29/25 15:23	05/30/25 22:18	1
Vanadium	27.1		0.66	0.17	mg/Kg	✱	05/29/25 15:23	05/30/25 22:18	1
Zinc	149	^5-	2.6	1.3	mg/Kg	✱	05/29/25 15:23	05/30/25 22:18	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.2		0.026	0.0061	mg/Kg	✱	05/30/25 13:38	05/30/25 15:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		1.2	0.59	mg/Kg	✱	05/31/25 12:17	05/31/25 17:32	1

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-1 Native

Lab Sample ID: 480-229710-20

Date Collected: 05/27/25 09:20

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 71.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	6.8	0.49	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
1,1,2,2-Tetrachloroethane	ND	vs	6.8	1.1	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.8	1.5	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
1,1,2-Trichloroethane	ND	vs	6.8	0.88	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
1,1-Dichloroethane	ND	vs	6.8	0.83	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
1,1-Dichloroethene	ND	vs	6.8	0.83	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
1,2,4-Trichlorobenzene	ND	vs	6.8	0.41	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
1,2-Dibromo-3-Chloropropane	ND	vs	6.8	3.4	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
1,2-Dichlorobenzene	ND	vs	6.8	0.53	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
1,2-Dichloroethane	ND	vs	6.8	0.34	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
1,2-Dichloropropane	ND	vs	6.8	3.4	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
1,3-Dichlorobenzene	ND	vs	6.8	0.35	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
1,4-Dichlorobenzene	ND	vs	6.8	0.95	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
2-Butanone (MEK)	ND	vs	34	2.5	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
2-Hexanone	ND	vs	34	3.4	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
4-Methyl-2-pentanone (MIBK)	ND	vs	34	2.2	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
Acetone	7.8	J vs	34	5.7	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
Benzene	ND	vs	6.8	0.33	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
Bromoform	ND	vs	6.8	3.4	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
Bromomethane	ND	vs	6.8	0.61	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
Carbon disulfide	ND	vs	6.8	3.4	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
Carbon tetrachloride	ND	vs	6.8	0.66	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
Chlorobenzene	ND	vs	6.8	0.90	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
Dibromochloromethane	ND	vs	6.8	0.87	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
Chloroethane	ND	vs	6.8	1.5	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
Chloroform	0.52	J vs	6.8	0.42	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
Chloromethane	ND	vs	6.8	0.41	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
cis-1,2-Dichloroethene	ND	vs	6.8	0.87	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
Cyclohexane	ND	vs	6.8	0.95	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
Bromodichloromethane	ND	vs	6.8	0.91	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
Dichlorodifluoromethane	ND	vs	6.8	0.56	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
Ethylbenzene	ND	vs	6.8	0.47	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
1,2-Dibromoethane	ND	vs	6.8	0.87	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
Isopropylbenzene	ND	vs	6.8	1.0	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
Methyl acetate	ND	vs	34	4.1	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
Methyl tert-butyl ether	ND	vs	6.8	0.67	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
Methylcyclohexane	ND	vs	6.8	1.0	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
Methylene Chloride	7.9	B vs	6.8	3.1	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
Tetrachloroethene	ND	vs	6.8	0.91	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
Toluene	ND	vs	6.8	0.51	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
trans-1,2-Dichloroethene	ND	vs	6.8	0.70	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
trans-1,3-Dichloropropene	ND	vs	6.8	3.0	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
Trichloroethene	ND	vs	6.8	1.5	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
Trichlorofluoromethane	ND	vs	6.8	0.64	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
Vinyl chloride	ND	vs	6.8	0.83	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
Xylenes, Total	ND	vs	14	1.1	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
cis-1,3-Dichloropropene	ND	vs	6.8	0.98	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1
Styrene	ND	vs	6.8	0.34	ug/Kg	✱	05/28/25 19:24	05/28/25 23:36	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-1 Native

Lab Sample ID: 480-229710-20

Date Collected: 05/27/25 09:20

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 71.4

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼		N/A	05/28/25 19:24	05/28/25 23:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		64 - 126				05/28/25 19:24	05/28/25 23:36	1
4-Bromofluorobenzene (Surr)	92		72 - 126				05/28/25 19:24	05/28/25 23:36	1
Toluene-d8 (Surr)	106		71 - 125				05/28/25 19:24	05/28/25 23:36	1
Dibromofluoromethane (Surr)	109		60 - 140				05/28/25 19:24	05/28/25 23:36	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		140	52	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
2,4,5-Trichlorophenol	ND		240	48	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
2,4,6-Trichlorophenol	ND		240	36	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
2,4-Dichlorophenol	ND		240	46	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
2,4-Dimethylphenol	ND		240	49	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
2,4-Dinitrophenol	ND		2300	45	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
2,4-Dinitrotoluene	ND		240	32	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
2,6-Dinitrotoluene	ND		240	34	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
2-Chloronaphthalene	ND		240	44	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
2-Chlorophenol	ND		240	37	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
2-Methylnaphthalene	ND		240	37	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
2-Methylphenol	ND		240	38	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
2-Nitroaniline	ND		460	40	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
2-Nitrophenol	ND		240	27	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
3,3'-Dichlorobenzidine	ND		460	69	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
3-Nitroaniline	ND		460	33	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
4,6-Dinitro-2-methylphenol	ND		460	52	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
4-Bromophenyl phenyl ether	ND		240	40	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
4-Chloro-3-methylphenol	ND		240	48	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
4-Chloroaniline	ND		240	34	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
4-Chlorophenyl phenyl ether	ND		240	49	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
4-Methylphenol	ND		460	42	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
4-Nitroaniline	ND		460	34	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
4-Nitrophenol	ND		460	64	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
Acenaphthene	ND		240	44	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
Acenaphthylene	ND		240	45	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
Acetophenone	ND		240	41	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
Anthracene	ND		240	43	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
Atrazine	ND		240	79	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
Benzaldehyde	ND		240	180	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
Benzo[a]anthracene	ND		240	32	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
Benzo[a]pyrene	ND		240	40	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
Benzo[b]fluoranthene	ND		240	32	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
Benzo[g,h,i]perylene	ND		240	41	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
Benzo[k]fluoranthene	ND		240	53	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
Biphenyl	ND		240	44	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
bis (2-chloroisopropyl) ether	ND		240	48	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
Bis(2-chloroethoxy)methane	ND		240	45	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
Bis(2-chloroethyl)ether	ND		240	44	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
Bis(2-ethylhexyl) phthalate	ND		240	51	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-1 Native

Lab Sample ID: 480-229710-20

Date Collected: 05/27/25 09:20

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 71.4

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	ND		240	43	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
Caprolactam	ND		240	54	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
Carbazole	ND		240	46	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
Chrysene	ND		240	57	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
Dibenz(a,h)anthracene	ND		240	48	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
Dibenzofuran	ND		240	41	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
Diethyl phthalate	ND		240	42	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
Dimethyl phthalate	ND		240	45	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
Di-n-butyl phthalate	ND		240	53	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
Di-n-octyl phthalate	ND		240	45	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
Fluoranthene	ND		240	43	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
Fluorene	ND		240	43	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
Hexachlorobenzene	ND		240	45	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
Hexachlorobutadiene	ND		240	35	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
Hexachlorocyclopentadiene	ND		460	100	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
Hexachloroethane	ND		240	43	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
Indeno[1,2,3-cd]pyrene	ND		240	35	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
Isophorone	ND		240	48	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
Naphthalene	ND		240	39	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
Nitrobenzene	ND		240	39	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
N-Nitrosodi-n-propylamine	ND		240	53	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
N-Nitrosodiphenylamine	ND		240	39	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
Pentachlorophenol	ND		460	75	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
Phenanthrene	ND		240	44	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
Phenol	ND		240	43	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1
Pyrene	ND		240	45	ug/Kg	☼	05/29/25 13:50	05/30/25 20:04	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	12000	T J	ug/Kg	☼	1.99	N/A	05/29/25 13:50	05/30/25 20:04	1
Unknown	7300	T J	ug/Kg	☼	3.48	N/A	05/29/25 13:50	05/30/25 20:04	1
Unknown	1800	T J	ug/Kg	☼	5.54	N/A	05/29/25 13:50	05/30/25 20:04	1
Undecane	1800	T J N	ug/Kg	☼	6.48	1120-21-4	05/29/25 13:50	05/30/25 20:04	1
Dodecane	1700	T J N	ug/Kg	☼	7.28	112-40-3	05/29/25 13:50	05/30/25 20:04	1
Unknown	1300	T J	ug/Kg	☼	7.81	N/A	05/29/25 13:50	05/30/25 20:04	1
Tridecane	1800	T J N	ug/Kg	☼	8.00	629-50-5	05/29/25 13:50	05/30/25 20:04	1
Tetradecane	2100	T J N	ug/Kg	☼	8.67	629-59-4	05/29/25 13:50	05/30/25 20:04	1
Heptadecane, 2,6,10,14-tetramethyl-	1400	T J N	ug/Kg	☼	9.05	18344-37-1	05/29/25 13:50	05/30/25 20:04	1
Hexadecane	1800	T J N	ug/Kg	☼	9.87	544-76-3	05/29/25 13:50	05/30/25 20:04	1
Unknown	2300	T J	ug/Kg	☼	10.12	N/A	05/29/25 13:50	05/30/25 20:04	1
Hexadecane, 7-methyl-	4400	T J N	ug/Kg	☼	10.39	26730-20-1	05/29/25 13:50	05/30/25 20:04	1
Octadecane	2000	T J N	ug/Kg	☼	10.85	593-45-3	05/29/25 13:50	05/30/25 20:04	1
Nonadecane	1800	T J N	ug/Kg	☼	11.27	629-92-5	05/29/25 13:50	05/30/25 20:04	1
Eicosane	1600	T J N	ug/Kg	☼	11.65	112-95-8	05/29/25 13:50	05/30/25 20:04	1
Heneicosane	1500	T J N	ug/Kg	☼	11.99	629-94-7	05/29/25 13:50	05/30/25 20:04	1
Docosane	1500	T J N	ug/Kg	☼	12.32	629-97-0	05/29/25 13:50	05/30/25 20:04	1
Heptadecane	1300	T J N	ug/Kg	☼	12.91	629-78-7	05/29/25 13:50	05/30/25 20:04	1
Hexatriacontane	1200	T J N	ug/Kg	☼	13.19	630-06-8	05/29/25 13:50	05/30/25 20:04	1
Octacosane	1500	T J N	ug/Kg	☼	13.46	630-02-4	05/29/25 13:50	05/30/25 20:04	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-1 Native

Lab Sample ID: 480-229710-20

Date Collected: 05/27/25 09:20

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 71.4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	75		10 - 140	05/29/25 13:50	05/30/25 20:04	1
2-Fluorobiphenyl (Surr)	76		29 - 120	05/29/25 13:50	05/30/25 20:04	1
2-Fluorophenol (Surr)	66		18 - 120	05/29/25 13:50	05/30/25 20:04	1
Nitrobenzene-d5 (Surr)	70		22 - 120	05/29/25 13:50	05/30/25 20:04	1
Phenol-d5 (Surr)	67		23 - 120	05/29/25 13:50	05/30/25 20:04	1
p-Terphenyl-d14 (Surr)	66		28 - 124	05/29/25 13:50	05/30/25 20:04	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.6	0.90	ug/Kg	☆	05/29/25 06:48	06/02/25 09:48	1
4,4'-DDE	ND		4.6	0.97	ug/Kg	☆	05/29/25 06:48	06/02/25 09:48	1
4,4'-DDT	3.6	J	4.6	1.1	ug/Kg	☆	05/29/25 06:48	06/02/25 09:48	1
beta-BHC	ND		4.6	0.83	ug/Kg	☆	05/29/25 06:48	06/02/25 09:48	1
cis-Chlordane	ND		4.6	2.3	ug/Kg	☆	05/29/25 06:48	06/02/25 09:48	1
alpha-BHC	ND		4.6	0.83	ug/Kg	☆	05/29/25 06:48	06/02/25 09:48	1
Aldrin	ND		4.6	1.1	ug/Kg	☆	05/29/25 06:48	06/02/25 09:48	1
delta-BHC	ND		4.6	0.86	ug/Kg	☆	05/29/25 06:48	06/02/25 09:48	1
Dieldrin	ND		4.6	1.1	ug/Kg	☆	05/29/25 06:48	06/02/25 09:48	1
Endosulfan I	ND		4.6	0.88	ug/Kg	☆	05/29/25 06:48	06/02/25 09:48	1
Endosulfan II	ND		4.6	0.83	ug/Kg	☆	05/29/25 06:48	06/02/25 09:48	1
Endosulfan sulfate	ND		4.6	0.86	ug/Kg	☆	05/29/25 06:48	06/02/25 09:48	1
Endrin	ND		4.6	0.91	ug/Kg	☆	05/29/25 06:48	06/02/25 09:48	1
Endrin aldehyde	ND		4.6	1.2	ug/Kg	☆	05/29/25 06:48	06/02/25 09:48	1
Endrin ketone	ND		4.6	1.1	ug/Kg	☆	05/29/25 06:48	06/02/25 09:48	1
gamma-BHC (Lindane)	ND		4.6	0.85	ug/Kg	☆	05/29/25 06:48	06/02/25 09:48	1
trans-Chlordane	ND		4.6	1.5	ug/Kg	☆	05/29/25 06:48	06/02/25 09:48	1
Heptachlor	ND		4.6	1.0	ug/Kg	☆	05/29/25 06:48	06/02/25 09:48	1
Heptachlor epoxide	ND		4.6	1.2	ug/Kg	☆	05/29/25 06:48	06/02/25 09:48	1
Methoxychlor	4.8	B	4.6	0.94	ug/Kg	☆	05/29/25 06:48	06/02/25 09:48	1
Toxaphene	ND		46	27	ug/Kg	☆	05/29/25 06:48	06/02/25 09:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	69		45 - 120	05/29/25 06:48	06/02/25 09:48	1
DCB Decachlorobiphenyl	94		45 - 120	05/29/25 06:48	06/02/25 09:48	1
Tetrachloro-m-xylene	52		30 - 124	05/29/25 06:48	06/02/25 09:48	1
Tetrachloro-m-xylene	59		30 - 124	05/29/25 06:48	06/02/25 09:48	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.29	0.057	mg/Kg	☆	05/30/25 06:41	05/30/25 20:37	1
PCB-1221	ND		0.29	0.057	mg/Kg	☆	05/30/25 06:41	05/30/25 20:37	1
PCB-1232	ND		0.29	0.057	mg/Kg	☆	05/30/25 06:41	05/30/25 20:37	1
PCB-1242	ND		0.29	0.057	mg/Kg	☆	05/30/25 06:41	05/30/25 20:37	1
PCB-1248	ND		0.29	0.057	mg/Kg	☆	05/30/25 06:41	05/30/25 20:37	1
PCB-1254	ND		0.29	0.14	mg/Kg	☆	05/30/25 06:41	05/30/25 20:37	1
PCB-1260	ND		0.29	0.14	mg/Kg	☆	05/30/25 06:41	05/30/25 20:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	104		60 - 154	05/30/25 06:41	05/30/25 20:37	1
Tetrachloro-m-xylene	110		60 - 154	05/30/25 06:41	05/30/25 20:37	1
DCB Decachlorobiphenyl	106		65 - 174	05/30/25 06:41	05/30/25 20:37	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-1 Native

Lab Sample ID: 480-229710-20

Date Collected: 05/27/25 09:20

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 71.4

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	109		65 - 174	05/30/25 06:41	05/30/25 20:37	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.39	0.13	ng/g	✱	06/01/25 11:59	06/02/25 16:09	1
Perfluoropentanoic acid (PFPeA)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 16:09	1
Perfluorohexanoic acid (PFHxA)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 16:09	1
Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 16:09	1
Perfluorooctanoic acid (PFOA)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 16:09	1
Perfluorononanoic acid (PFNA)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 16:09	1
Perfluorodecanoic acid (PFDA)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 16:09	1
Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 16:09	1
Perfluorododecanoic acid (PFDoA)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 16:09	1
Perfluorotridecanoic acid (PFTriDA)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 16:09	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 16:09	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 16:09	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 16:09	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 16:09	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 16:09	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.20	0.11	ng/g	✱	06/01/25 11:59	06/02/25 16:09	1
Perfluorononanesulfonic acid (PFNS)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 16:09	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 16:09	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 16:09	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.39	0.098	ng/g	✱	06/01/25 11:59	06/02/25 16:09	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.39	0.13	ng/g	✱	06/01/25 11:59	06/02/25 16:09	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.39	0.13	ng/g	✱	06/01/25 11:59	06/02/25 16:09	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.088	ng/g	✱	06/01/25 11:59	06/02/25 16:09	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.20	0.088	ng/g	✱	06/01/25 11:59	06/02/25 16:09	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.20	0.098	ng/g	✱	06/01/25 11:59	06/02/25 16:09	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.20	0.078	ng/g	✱	06/01/25 11:59	06/02/25 16:09	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.20	0.11	ng/g	✱	06/01/25 11:59	06/02/25 16:09	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		0.98	0.29	ng/g	✱	06/01/25 11:59	06/02/25 16:09	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		0.98	0.29	ng/g	✱	06/01/25 11:59	06/02/25 16:09	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.20	0.11	ng/g	✱	06/01/25 11:59	06/02/25 16:09	1
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND		0.20	0.059	ng/g	✱	06/01/25 11:59	06/02/25 16:09	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 16:09	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 16:09	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-1 Native

Lab Sample ID: 480-229710-20

Date Collected: 05/27/25 09:20

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 71.4

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.20	0.069	ng/g	✱	06/01/25 11:59	06/02/25 16:09	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid (9CI-PF3ONS)	ND		0.20	0.088	ng/g	✱	06/01/25 11:59	06/02/25 16:09	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11CI-PF3OUdS)	ND		0.20	0.078	ng/g	✱	06/01/25 11:59	06/02/25 16:09	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.20	0.049	ng/g	✱	06/01/25 11:59	06/02/25 16:09	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.39	0.20	ng/g	✱	06/01/25 11:59	06/02/25 16:09	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		0.98	0.49	ng/g	✱	06/01/25 11:59	06/02/25 16:09	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		0.98	0.39	ng/g	✱	06/01/25 11:59	06/02/25 16:09	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	86.5		8 - 130	06/01/25 11:59	06/02/25 16:09	1
13C5-PFPeA	87.6		35 - 130	06/01/25 11:59	06/02/25 16:09	1
13C5-PFHxA	92.0		40 - 130	06/01/25 11:59	06/02/25 16:09	1
13C4-PFHpA	89.7		40 - 130	06/01/25 11:59	06/02/25 16:09	1
13C8-PFOA	89.9		40 - 130	06/01/25 11:59	06/02/25 16:09	1
13C9-PFNA	87.1		40 - 130	06/01/25 11:59	06/02/25 16:09	1
13C6-PFDA	85.3		40 - 130	06/01/25 11:59	06/02/25 16:09	1
13C7-PFUnA	96.7		40 - 130	06/01/25 11:59	06/02/25 16:09	1
13C2-PFTeDA	72.0		20 - 130	06/01/25 11:59	06/02/25 16:09	1
13C3-PFBS	87.3		40 - 135	06/01/25 11:59	06/02/25 16:09	1
13C3-PFHxS	84.5		40 - 130	06/01/25 11:59	06/02/25 16:09	1
13C8-PFOS	81.0		40 - 130	06/01/25 11:59	06/02/25 16:09	1
13C8-PFOSA	82.4		40 - 130	06/01/25 11:59	06/02/25 16:09	1
d3-NMeFOSAA	83.3		40 - 135	06/01/25 11:59	06/02/25 16:09	1
d5-NEtFOSAA	118		40 - 150	06/01/25 11:59	06/02/25 16:09	1
13C2 4:2 FTS	49.5		40 - 165	06/01/25 11:59	06/02/25 16:09	1
13C2 6:2 FTS	109		40 - 215	06/01/25 11:59	06/02/25 16:09	1
13C2 8:2 FTS	92.3		40 - 275	06/01/25 11:59	06/02/25 16:09	1
13C3-HFPO-DA	90.9		40 - 130	06/01/25 11:59	06/02/25 16:09	1
D7-NMeFOSE	58.6		20 - 130	06/01/25 11:59	06/02/25 16:09	1
D9-NEtFOSE	49.2		15 - 130	06/01/25 11:59	06/02/25 16:09	1
d5-NEtPFOSA	64.8		10 - 130	06/01/25 11:59	06/02/25 16:09	1
d3-NMePFOSA	67.5		10 - 130	06/01/25 11:59	06/02/25 16:09	1
13C2 PFDoA	89.4		40 - 130	06/01/25 11:59	06/02/25 16:09	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	24600		14.6	12.6	mg/Kg	✱	05/29/25 15:23	05/30/25 22:20	1
Antimony	ND		21.9	0.77	mg/Kg	✱	05/29/25 15:23	05/30/25 22:20	1
Arsenic	8.6		2.9	1.3	mg/Kg	✱	05/29/25 15:23	05/30/25 22:20	1
Barium	224		0.73	0.20	mg/Kg	✱	05/29/25 15:23	05/30/25 22:20	1
Beryllium	1.0	^5-	0.29	0.058	mg/Kg	✱	05/29/25 15:23	05/30/25 22:20	1
Cadmium	0.56		0.29	0.10	mg/Kg	✱	05/29/25 15:23	05/30/25 22:20	1
Calcium	4080	^5-	73.0	39.4	mg/Kg	✱	05/29/25 15:23	05/30/25 22:20	1
Chromium	29.0		0.73	0.53	mg/Kg	✱	05/29/25 15:23	05/30/25 22:20	1
Cobalt	16.5		0.73	0.15	mg/Kg	✱	05/29/25 15:23	05/30/25 22:20	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-1 Native

Lab Sample ID: 480-229710-20

Date Collected: 05/27/25 09:20

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 71.4

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	29.7		1.5	0.83	mg/Kg	✱	05/29/25 15:23	05/30/25 22:20	1
Iron	34300	^2 ^+	14.6	12.4	mg/Kg	✱	05/29/25 15:23	05/30/25 22:20	1
Lead	50.5		1.5	0.67	mg/Kg	✱	05/29/25 15:23	05/30/25 22:20	1
Magnesium	4200		29.2	12.4	mg/Kg	✱	05/29/25 15:23	05/30/25 22:20	1
Manganese	1880	^5-	1.5	0.41	mg/Kg	✱	05/29/25 15:23	05/30/25 22:20	1
Nickel	26.2	^5-	7.3	0.37	mg/Kg	✱	05/29/25 15:23	05/30/25 22:20	1
Potassium	3880		43.8	35.4	mg/Kg	✱	05/29/25 15:23	05/30/25 22:20	1
Selenium	ND		5.8	1.2	mg/Kg	✱	05/29/25 15:23	05/30/25 22:20	1
Silver	ND	^5-	0.88	0.29	mg/Kg	✱	05/29/25 15:23	06/04/25 19:26	1
Sodium	262		205	89.6	mg/Kg	✱	05/29/25 15:23	06/04/25 19:26	1
Thallium	ND		8.8	1.1	mg/Kg	✱	05/29/25 15:23	05/30/25 22:20	1
Vanadium	43.1		0.73	0.19	mg/Kg	✱	05/29/25 15:23	05/30/25 22:20	1
Zinc	147	^5-	2.9	1.5	mg/Kg	✱	05/29/25 15:23	05/30/25 22:20	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.15		0.028	0.0065	mg/Kg	✱	05/30/25 13:38	05/30/25 15:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		1.4	0.66	mg/Kg	✱	05/31/25 12:17	05/31/25 17:34	1

Client Sample ID: RI-BH-2 Fill

Lab Sample ID: 480-229710-21

Date Collected: 05/27/25 09:30

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 78.0

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	6.3	0.46	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
1,1,2,2-Tetrachloroethane	ND	*3 vs	6.3	1.0	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.3	1.4	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
1,1,2-Trichloroethane	ND	vs	6.3	0.82	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
1,1-Dichloroethane	ND	vs	6.3	0.77	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
1,1-Dichloroethene	ND	vs	6.3	0.77	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
1,2,4-Trichlorobenzene	ND	*3 vs	6.3	0.38	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
1,2-Dibromo-3-Chloropropane	ND	*3 vs	6.3	3.1	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
1,2-Dichlorobenzene	ND	*3 vs	6.3	0.49	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
1,2-Dichloroethane	ND	vs	6.3	0.32	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
1,2-Dichloropropane	ND	vs	6.3	3.1	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
1,3-Dichlorobenzene	ND	*3 vs	6.3	0.32	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
1,4-Dichlorobenzene	ND	*3 vs	6.3	0.88	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
2-Butanone (MEK)	ND	vs	31	2.3	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
2-Hexanone	ND	vs	31	3.1	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
4-Methyl-2-pentanone (MIBK)	ND	vs	31	2.1	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
Acetone	36	vs	31	5.3	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
Benzene	ND	vs	6.3	0.31	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
Bromoform	ND	vs	6.3	3.1	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
Bromomethane	ND	vs	6.3	0.57	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
Carbon disulfide	ND	vs	6.3	3.1	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
Carbon tetrachloride	ND	vs	6.3	0.61	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-2 Fill

Lab Sample ID: 480-229710-21

Date Collected: 05/27/25 09:30

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 78.0

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND	vs	6.3	0.83	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
Dibromochloromethane	ND	vs	6.3	0.80	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
Chloroethane	ND	vs	6.3	1.4	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
Chloroform	0.47	J vs	6.3	0.39	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
Chloromethane	ND	vs	6.3	0.38	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
cis-1,2-Dichloroethene	ND	vs	6.3	0.80	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
Cyclohexane	ND	vs	6.3	0.88	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
Bromodichloromethane	ND	vs	6.3	0.84	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
Dichlorodifluoromethane	ND	vs	6.3	0.52	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
Ethylbenzene	ND	vs	6.3	0.43	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
1,2-Dibromoethane	ND	vs	6.3	0.81	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
Isopropylbenzene	ND	*3 vs	6.3	0.95	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
Methyl acetate	ND	vs	31	3.8	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
Methyl tert-butyl ether	ND	vs	6.3	0.62	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
Methylcyclohexane	1.1	J vs	6.3	0.96	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
Methylene Chloride	3.2	J vs	6.3	2.9	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
Tetrachloroethene	9.0	vs	6.3	0.84	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
Toluene	ND	vs	6.3	0.48	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
trans-1,2-Dichloroethene	ND	vs	6.3	0.65	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
trans-1,3-Dichloropropene	ND	vs	6.3	2.8	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
Trichloroethene	ND	vs	6.3	1.4	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
Trichlorofluoromethane	ND	vs	6.3	0.59	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
Vinyl chloride	ND	vs	6.3	0.77	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
Xylenes, Total	ND	vs	13	1.1	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
cis-1,3-Dichloropropene	ND	vs	6.3	0.90	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1
Styrene	ND	vs	6.3	0.31	ug/Kg	✱	05/29/25 18:01	05/29/25 22:26	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	✱		N/A	05/29/25 18:01	05/29/25 22:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		64 - 126	05/29/25 18:01	05/29/25 22:26	1
4-Bromofluorobenzene (Surr)	85		72 - 126	05/29/25 18:01	05/29/25 22:26	1
Toluene-d8 (Surr)	116		71 - 125	05/29/25 18:01	05/29/25 22:26	1
Dibromofluoromethane (Surr)	106		60 - 140	05/29/25 18:01	05/29/25 22:26	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		640	240	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
2,4,5-Trichlorophenol	ND		1100	220	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
2,4,6-Trichlorophenol	ND		1100	160	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
2,4-Dichlorophenol	ND		1100	210	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
2,4-Dimethylphenol	ND		1100	230	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
2,4-Dinitrophenol	ND		11000	210	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
2,4-Dinitrotoluene	ND		1100	150	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
2,6-Dinitrotoluene	ND		1100	150	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
2-Chloronaphthalene	ND		1100	200	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
2-Chlorophenol	ND		1100	170	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
2-Methylnaphthalene	ND		1100	170	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
2-Methylphenol	ND		1100	170	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-2 Fill

Lab Sample ID: 480-229710-21

Date Collected: 05/27/25 09:30

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 78.0

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	ND		2100	180	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
2-Nitrophenol	ND		1100	120	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
3,3'-Dichlorobenzidine	ND		2100	320	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
3-Nitroaniline	ND		2100	150	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
4,6-Dinitro-2-methylphenol	ND		2100	240	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
4-Bromophenyl phenyl ether	ND		1100	180	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
4-Chloro-3-methylphenol	ND		1100	220	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
4-Chloroaniline	ND		1100	150	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
4-Chlorophenyl phenyl ether	ND		1100	230	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
4-Methylphenol	ND		2100	190	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
4-Nitroaniline	ND		2100	160	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
4-Nitrophenol	ND		2100	290	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
Acenaphthene	ND		1100	200	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
Acenaphthylene	ND		1100	210	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
Acetophenone	ND		1100	190	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
Anthracene	ND		1100	200	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
Atrazine	ND		1100	360	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
Benzaldehyde	ND		1100	820	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
Benzo[a]anthracene	920	J	1100	150	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
Benzo[a]pyrene	1300		1100	180	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
Benzo[b]fluoranthene	2000		1100	140	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
Benzo[g,h,i]perylene	1100		1100	190	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
Benzo[k]fluoranthene	1000	J	1100	240	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
Biphenyl	ND		1100	200	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
bis (2-chloroisopropyl) ether	ND		1100	220	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
Bis(2-chloroethoxy)methane	ND		1100	210	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
Bis(2-chloroethyl)ether	ND		1100	200	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
Bis(2-ethylhexyl) phthalate	ND		1100	230	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
Butyl benzyl phthalate	ND		1100	200	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
Caprolactam	ND		1100	250	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
Carbazole	ND		1100	210	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
Chrysene	1500		1100	260	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
Dibenz(a,h)anthracene	ND		1100	220	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
Dibenzofuran	ND		1100	190	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
Diethyl phthalate	ND		1100	190	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
Dimethyl phthalate	ND		1100	210	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
Di-n-butyl phthalate	ND		1100	240	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
Di-n-octyl phthalate	ND		1100	210	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
Fluoranthene	2600		1100	200	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
Fluorene	ND		1100	200	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
Hexachlorobenzene	ND		1100	210	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
Hexachlorobutadiene	ND		1100	160	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
Hexachlorocyclopentadiene	ND		2100	470	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
Hexachloroethane	ND		1100	200	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
Indeno[1,2,3-cd]pyrene	880	J	1100	160	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
Isophorone	ND		1100	220	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
Naphthalene	ND		1100	180	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
Nitrobenzene	ND		1100	180	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
N-Nitrosodi-n-propylamine	ND		1100	240	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-2 Fill

Lab Sample ID: 480-229710-21

Date Collected: 05/27/25 09:30

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 78.0

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	ND		1100	180	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
Pentachlorophenol	ND		2100	340	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
Phenanthrene	750	J	1100	200	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
Phenol	ND		1100	200	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5
Pyrene	1800		1100	200	ug/Kg	✱	05/29/25 13:50	05/30/25 20:29	5

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	3300	T J	ug/Kg	✱	3.47	N/A	05/29/25 13:50	05/30/25 20:29	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	91		10 - 140	05/29/25 13:50	05/30/25 20:29	5
2-Fluorobiphenyl (Surr)	80		29 - 120	05/29/25 13:50	05/30/25 20:29	5
2-Fluorophenol (Surr)	73		18 - 120	05/29/25 13:50	05/30/25 20:29	5
Nitrobenzene-d5 (Surr)	79		22 - 120	05/29/25 13:50	05/30/25 20:29	5
Phenol-d5 (Surr)	75		23 - 120	05/29/25 13:50	05/30/25 20:29	5
p-Terphenyl-d14 (Surr)	77		28 - 124	05/29/25 13:50	05/30/25 20:29	5

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		82	16	ug/Kg	✱	05/29/25 06:48	06/02/25 10:08	20
4,4'-DDE	ND		82	17	ug/Kg	✱	05/29/25 06:48	06/02/25 10:08	20
4,4'-DDT	64	J	82	19	ug/Kg	✱	05/29/25 06:48	06/02/25 10:08	20
beta-BHC	ND		82	15	ug/Kg	✱	05/29/25 06:48	06/02/25 10:08	20
cis-Chlordane	ND		82	41	ug/Kg	✱	05/29/25 06:48	06/02/25 10:08	20
alpha-BHC	ND		82	15	ug/Kg	✱	05/29/25 06:48	06/02/25 10:08	20
Aldrin	ND		82	20	ug/Kg	✱	05/29/25 06:48	06/02/25 10:08	20
delta-BHC	ND		82	15	ug/Kg	✱	05/29/25 06:48	06/02/25 10:08	20
Dieldrin	ND		82	20	ug/Kg	✱	05/29/25 06:48	06/02/25 10:08	20
Endosulfan I	ND		82	16	ug/Kg	✱	05/29/25 06:48	06/02/25 10:08	20
Endosulfan II	ND		82	15	ug/Kg	✱	05/29/25 06:48	06/02/25 10:08	20
Endosulfan sulfate	ND		82	15	ug/Kg	✱	05/29/25 06:48	06/02/25 10:08	20
Endrin	ND		82	16	ug/Kg	✱	05/29/25 06:48	06/02/25 10:08	20
Endrin aldehyde	ND		82	21	ug/Kg	✱	05/29/25 06:48	06/02/25 10:08	20
Endrin ketone	ND		82	20	ug/Kg	✱	05/29/25 06:48	06/02/25 10:08	20
gamma-BHC (Lindane)	ND		82	15	ug/Kg	✱	05/29/25 06:48	06/02/25 10:08	20
trans-Chlordane	ND		82	26	ug/Kg	✱	05/29/25 06:48	06/02/25 10:08	20
Heptachlor	ND		82	18	ug/Kg	✱	05/29/25 06:48	06/02/25 10:08	20
Heptachlor epoxide	ND		82	21	ug/Kg	✱	05/29/25 06:48	06/02/25 10:08	20
Methoxychlor	67	J B	82	17	ug/Kg	✱	05/29/25 06:48	06/02/25 10:08	20
Toxaphene	ND		820	480	ug/Kg	✱	05/29/25 06:48	06/02/25 10:08	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	213	S1+	45 - 120	05/29/25 06:48	06/02/25 10:08	20
DCB Decachlorobiphenyl	462	S1+	45 - 120	05/29/25 06:48	06/02/25 10:08	20
Tetrachloro-m-xylene	113		30 - 124	05/29/25 06:48	06/02/25 10:08	20
Tetrachloro-m-xylene	110		30 - 124	05/29/25 06:48	06/02/25 10:08	20

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25	0.049	mg/Kg	✱	05/30/25 06:41	05/30/25 20:56	1
PCB-1221	ND		0.25	0.049	mg/Kg	✱	05/30/25 06:41	05/30/25 20:56	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-2 Fill

Lab Sample ID: 480-229710-21

Date Collected: 05/27/25 09:30

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 78.0

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.25	0.049	mg/Kg	✱	05/30/25 06:41	05/30/25 20:56	1
PCB-1242	ND		0.25	0.049	mg/Kg	✱	05/30/25 06:41	05/30/25 20:56	1
PCB-1248	ND		0.25	0.049	mg/Kg	✱	05/30/25 06:41	05/30/25 20:56	1
PCB-1254	ND		0.25	0.12	mg/Kg	✱	05/30/25 06:41	05/30/25 20:56	1
PCB-1260	ND		0.25	0.12	mg/Kg	✱	05/30/25 06:41	05/30/25 20:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	107		60 - 154	05/30/25 06:41	05/30/25 20:56	1
Tetrachloro-m-xylene	110		60 - 154	05/30/25 06:41	05/30/25 20:56	1
DCB Decachlorobiphenyl	103		65 - 174	05/30/25 06:41	05/30/25 20:56	1
DCB Decachlorobiphenyl	106		65 - 174	05/30/25 06:41	05/30/25 20:56	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.40	0.13	ng/g	✱	06/01/25 11:59	06/02/25 16:23	1
Perfluoropentanoic acid (PFPeA)	ND		0.20	0.050	ng/g	✱	06/01/25 11:59	06/02/25 16:23	1
Perfluorohexanoic acid (PFHxA)	ND		0.20	0.060	ng/g	✱	06/01/25 11:59	06/02/25 16:23	1
Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.070	ng/g	✱	06/01/25 11:59	06/02/25 16:23	1
Perfluorooctanoic acid (PFOA)	ND		0.20	0.060	ng/g	✱	06/01/25 11:59	06/02/25 16:23	1
Perfluorononanoic acid (PFNA)	ND		0.20	0.060	ng/g	✱	06/01/25 11:59	06/02/25 16:23	1
Perfluorodecanoic acid (PFDA)	ND		0.20	0.050	ng/g	✱	06/01/25 11:59	06/02/25 16:23	1
Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.050	ng/g	✱	06/01/25 11:59	06/02/25 16:23	1
Perfluorododecanoic acid (PFDoA)	ND		0.20	0.050	ng/g	✱	06/01/25 11:59	06/02/25 16:23	1
Perfluorotridecanoic acid (PFTTrDA)	ND		0.20	0.070	ng/g	✱	06/01/25 11:59	06/02/25 16:23	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.20	0.070	ng/g	✱	06/01/25 11:59	06/02/25 16:23	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.070	ng/g	✱	06/01/25 11:59	06/02/25 16:23	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.20	0.060	ng/g	✱	06/01/25 11:59	06/02/25 16:23	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.050	ng/g	✱	06/01/25 11:59	06/02/25 16:23	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.070	ng/g	✱	06/01/25 11:59	06/02/25 16:23	1
Perfluorooctanesulfonic acid (PFOS)	0.17 J		0.20	0.11	ng/g	✱	06/01/25 11:59	06/02/25 16:23	1
Perfluorononanesulfonic acid (PFNS)	ND		0.20	0.070	ng/g	✱	06/01/25 11:59	06/02/25 16:23	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.050	ng/g	✱	06/01/25 11:59	06/02/25 16:23	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.060	ng/g	✱	06/01/25 11:59	06/02/25 16:23	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.40	0.10	ng/g	✱	06/01/25 11:59	06/02/25 16:23	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.40	0.13	ng/g	✱	06/01/25 11:59	06/02/25 16:23	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.40	0.13	ng/g	✱	06/01/25 11:59	06/02/25 16:23	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.090	ng/g	✱	06/01/25 11:59	06/02/25 16:23	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.20	0.090	ng/g	✱	06/01/25 11:59	06/02/25 16:23	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.20	0.10	ng/g	✱	06/01/25 11:59	06/02/25 16:23	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.20	0.080	ng/g	✱	06/01/25 11:59	06/02/25 16:23	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.20	0.11	ng/g	✱	06/01/25 11:59	06/02/25 16:23	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-2 Fill

Lab Sample ID: 480-229710-21

Date Collected: 05/27/25 09:30

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 78.0

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.0	0.30	ng/g	☼	06/01/25 11:59	06/02/25 16:23	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.0	0.30	ng/g	☼	06/01/25 11:59	06/02/25 16:23	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.20	0.11	ng/g	☼	06/01/25 11:59	06/02/25 16:23	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.20	0.060	ng/g	☼	06/01/25 11:59	06/02/25 16:23	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.20	0.070	ng/g	☼	06/01/25 11:59	06/02/25 16:23	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.20	0.050	ng/g	☼	06/01/25 11:59	06/02/25 16:23	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.20	0.070	ng/g	☼	06/01/25 11:59	06/02/25 16:23	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid (9Cl-PF3ONS)	ND		0.20	0.090	ng/g	☼	06/01/25 11:59	06/02/25 16:23	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.20	0.080	ng/g	☼	06/01/25 11:59	06/02/25 16:23	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.20	0.050	ng/g	☼	06/01/25 11:59	06/02/25 16:23	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.40	0.20	ng/g	☼	06/01/25 11:59	06/02/25 16:23	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		1.0	0.50	ng/g	☼	06/01/25 11:59	06/02/25 16:23	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		1.0	0.40	ng/g	☼	06/01/25 11:59	06/02/25 16:23	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	109		8 - 130	06/01/25 11:59	06/02/25 16:23	1
13C5-PFPeA	110		35 - 130	06/01/25 11:59	06/02/25 16:23	1
13C5-PFHxA	109		40 - 130	06/01/25 11:59	06/02/25 16:23	1
13C4-PFHpA	114		40 - 130	06/01/25 11:59	06/02/25 16:23	1
13C8-PFOA	109		40 - 130	06/01/25 11:59	06/02/25 16:23	1
13C9-PFNA	101		40 - 130	06/01/25 11:59	06/02/25 16:23	1
13C6-PFDA	98.7		40 - 130	06/01/25 11:59	06/02/25 16:23	1
13C7-PFUnA	101		40 - 130	06/01/25 11:59	06/02/25 16:23	1
13C2-PFTeDA	44.2		20 - 130	06/01/25 11:59	06/02/25 16:23	1
13C3-PFBS	104		40 - 135	06/01/25 11:59	06/02/25 16:23	1
13C3-PFHxS	104		40 - 130	06/01/25 11:59	06/02/25 16:23	1
13C8-PFOS	96.4		40 - 130	06/01/25 11:59	06/02/25 16:23	1
13C8-PFOSA	97.7		40 - 130	06/01/25 11:59	06/02/25 16:23	1
d3-NMeFOSAA	79.8		40 - 135	06/01/25 11:59	06/02/25 16:23	1
d5-NEtFOSAA	86.1		40 - 150	06/01/25 11:59	06/02/25 16:23	1
13C2 4:2 FTS	143		40 - 165	06/01/25 11:59	06/02/25 16:23	1
13C2 6:2 FTS	142		40 - 215	06/01/25 11:59	06/02/25 16:23	1
13C2 8:2 FTS	120		40 - 275	06/01/25 11:59	06/02/25 16:23	1
13C3-HFPO-DA	104		40 - 130	06/01/25 11:59	06/02/25 16:23	1
D7-NMeFOSE	61.2		20 - 130	06/01/25 11:59	06/02/25 16:23	1
D9-NEtFOSE	46.0		15 - 130	06/01/25 11:59	06/02/25 16:23	1
d5-NEtPFOSA	69.4		10 - 130	06/01/25 11:59	06/02/25 16:23	1
d3-NMePFOSA	76.4		10 - 130	06/01/25 11:59	06/02/25 16:23	1
13C2 PFDaA	85.8		40 - 130	06/01/25 11:59	06/02/25 16:23	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-2 Fill

Lab Sample ID: 480-229710-21

Date Collected: 05/27/25 09:30

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 78.0

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12400		12.9	11.1	mg/Kg	✱	05/29/25 15:23	05/30/25 22:22	1
Antimony	0.99	J	19.4	0.68	mg/Kg	✱	05/29/25 15:23	05/30/25 22:22	1
Arsenic	9.1		2.6	1.1	mg/Kg	✱	05/29/25 15:23	05/30/25 22:22	1
Barium	134		0.65	0.18	mg/Kg	✱	05/29/25 15:23	05/30/25 22:22	1
Beryllium	0.91	^5-	0.26	0.052	mg/Kg	✱	05/29/25 15:23	05/30/25 22:22	1
Cadmium	0.19	J	0.26	0.090	mg/Kg	✱	05/29/25 15:23	05/30/25 22:22	1
Calcium	4270	^5-	64.6	34.9	mg/Kg	✱	05/29/25 15:23	05/30/25 22:22	1
Chromium	17.9		0.65	0.47	mg/Kg	✱	05/29/25 15:23	05/30/25 22:22	1
Cobalt	6.4		0.65	0.13	mg/Kg	✱	05/29/25 15:23	05/30/25 22:22	1
Copper	76.3		1.3	0.74	mg/Kg	✱	05/29/25 15:23	05/30/25 22:22	1
Iron	23700	^2 ^+	12.9	11.0	mg/Kg	✱	05/29/25 15:23	05/30/25 22:22	1
Lead	284		1.3	0.59	mg/Kg	✱	05/29/25 15:23	05/30/25 22:22	1
Magnesium	2370		25.8	11.0	mg/Kg	✱	05/29/25 15:23	05/30/25 22:22	1
Manganese	760		1.3	0.36	mg/Kg	✱	05/29/25 15:23	06/04/25 19:28	1
Nickel	24.7	^5-	6.5	0.32	mg/Kg	✱	05/29/25 15:23	05/30/25 22:22	1
Potassium	1610		38.8	31.3	mg/Kg	✱	05/29/25 15:23	05/30/25 22:22	1
Selenium	ND		5.2	1.0	mg/Kg	✱	05/29/25 15:23	05/30/25 22:22	1
Silver	ND	^5-	0.78	0.26	mg/Kg	✱	05/29/25 15:23	06/04/25 19:28	1
Sodium	190		181	79.2	mg/Kg	✱	05/29/25 15:23	06/04/25 19:28	1
Thallium	ND		7.8	0.98	mg/Kg	✱	05/29/25 15:23	05/30/25 22:22	1
Vanadium	27.5		0.65	0.17	mg/Kg	✱	05/29/25 15:23	05/30/25 22:22	1
Zinc	167	^5-	2.6	1.3	mg/Kg	✱	05/29/25 15:23	05/30/25 22:22	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.54		0.025	0.0059	mg/Kg	✱	05/30/25 13:38	05/30/25 15:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		1.1	0.55	mg/Kg	✱	05/31/25 12:17	05/31/25 17:35	1

Client Sample ID: RI-BH-2 Native

Lab Sample ID: 480-229710-22

Date Collected: 05/27/25 09:35

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 79.3

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	6.2	0.45	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
1,1,1,2,2-Tetrachloroethane	ND	vs	6.2	1.0	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.2	1.4	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
1,1,2-Trichloroethane	ND	vs	6.2	0.81	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
1,1-Dichloroethane	ND	vs	6.2	0.76	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
1,1-Dichloroethene	ND	vs	6.2	0.76	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
1,2,4-Trichlorobenzene	ND	vs	6.2	0.38	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
1,2-Dibromo-3-Chloropropane	ND	vs	6.2	3.1	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
1,2-Dichlorobenzene	ND	vs	6.2	0.48	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
1,2-Dichloroethane	ND	vs	6.2	0.31	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
1,2-Dichloropropane	ND	vs	6.2	3.1	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
1,3-Dichlorobenzene	ND	vs	6.2	0.32	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
1,4-Dichlorobenzene	ND	vs	6.2	0.87	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-2 Native

Lab Sample ID: 480-229710-22

Date Collected: 05/27/25 09:35

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 79.3

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND	vs	31	2.3	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
2-Hexanone	ND	vs	31	3.1	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
4-Methyl-2-pentanone (MIBK)	ND	vs	31	2.0	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
Acetone	10	J vs	31	5.2	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
Benzene	ND	vs	6.2	0.30	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
Bromoform	ND	vs	6.2	3.1	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
Bromomethane	ND	vs	6.2	0.56	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
Carbon disulfide	ND	vs	6.2	3.1	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
Carbon tetrachloride	ND	vs	6.2	0.60	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
Chlorobenzene	ND	vs	6.2	0.82	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
Dibromochloromethane	ND	vs	6.2	0.79	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
Chloroethane	ND	vs	6.2	1.4	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
Chloroform	0.52	J vs	6.2	0.38	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
Chloromethane	ND	vs	6.2	0.37	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
cis-1,2-Dichloroethene	ND	vs	6.2	0.79	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
Cyclohexane	ND	vs	6.2	0.87	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
Bromodichloromethane	ND	vs	6.2	0.83	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
Dichlorodifluoromethane	ND	vs	6.2	0.51	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
Ethylbenzene	ND	vs	6.2	0.43	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
1,2-Dibromoethane	ND	vs	6.2	0.80	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
Isopropylbenzene	ND	vs	6.2	0.93	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
Methyl acetate	ND	vs	31	3.7	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
Methyl tert-butyl ether	ND	vs	6.2	0.61	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
Methylcyclohexane	ND	vs	6.2	0.94	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
Methylene Chloride	7.4	B vs	6.2	2.8	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
Tetrachloroethene	ND	vs	6.2	0.83	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
Toluene	ND	vs	6.2	0.47	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
trans-1,2-Dichloroethene	ND	vs	6.2	0.64	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
trans-1,3-Dichloropropene	ND	vs	6.2	2.7	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
Trichloroethene	ND	vs	6.2	1.4	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
Trichlorofluoromethane	ND	vs	6.2	0.59	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
Vinyl chloride	ND	vs	6.2	0.76	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
Xylenes, Total	ND	vs	12	1.0	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
cis-1,3-Dichloropropene	ND	vs	6.2	0.89	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1
Styrene	ND	vs	6.2	0.31	ug/Kg	✱	05/28/25 19:24	05/29/25 00:30	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	✱		N/A	05/28/25 19:24	05/29/25 00:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		64 - 126				05/28/25 19:24	05/29/25 00:30	1
4-Bromofluorobenzene (Surr)	96		72 - 126				05/28/25 19:24	05/29/25 00:30	1
Toluene-d8 (Surr)	107		71 - 125				05/28/25 19:24	05/29/25 00:30	1
Dibromofluoromethane (Surr)	115		60 - 140				05/28/25 19:24	05/29/25 00:30	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		130	47	ug/Kg	✱	05/29/25 13:50	05/30/25 20:53	1
2,4,5-Trichlorophenol	ND		210	43	ug/Kg	✱	05/29/25 13:50	05/30/25 20:53	1
2,4,6-Trichlorophenol	ND		210	32	ug/Kg	✱	05/29/25 13:50	05/30/25 20:53	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-2 Native

Lab Sample ID: 480-229710-22

Date Collected: 05/27/25 09:35

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 79.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		210	42	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
2,4-Dimethylphenol	ND		210	45	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
2,4-Dinitrophenol	ND		2100	40	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
2,4-Dinitrotoluene	ND		210	29	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
2,6-Dinitrotoluene	ND		210	30	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
2-Chloronaphthalene	ND		210	40	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
2-Chlorophenol	ND		210	33	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
2-Methylnaphthalene	ND		210	33	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
2-Methylphenol	ND		210	34	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
2-Nitroaniline	ND		410	36	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
2-Nitrophenol	ND		210	24	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
3,3'-Dichlorobenzidine	ND		410	62	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
3-Nitroaniline	ND		410	30	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
4,6-Dinitro-2-methylphenol	ND		410	47	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
4-Bromophenyl phenyl ether	ND		210	36	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
4-Chloro-3-methylphenol	ND		210	44	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
4-Chloroaniline	ND		210	31	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
4-Chlorophenyl phenyl ether	ND		210	45	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
4-Methylphenol	ND		410	38	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
4-Nitroaniline	ND		410	31	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
4-Nitrophenol	ND		410	58	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
Acenaphthene	ND		210	39	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
Acenaphthylene	ND		210	41	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
Acetophenone	ND		210	37	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
Anthracene	ND		210	39	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
Atrazine	ND		210	72	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
Benzaldehyde	ND		210	160	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
Benzo[a]anthracene	ND		210	29	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
Benzo[a]pyrene	ND		210	36	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
Benzo[b]fluoranthene	ND		210	29	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
Benzo[g,h,i]perylene	ND		210	37	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
Benzo[k]fluoranthene	ND		210	48	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
Biphenyl	ND		210	40	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
bis (2-chloroisopropyl) ether	ND		210	43	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
Bis(2-chloroethoxy)methane	ND		210	41	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
Bis(2-chloroethyl)ether	ND		210	40	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
Bis(2-ethylhexyl) phthalate	ND		210	46	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
Butyl benzyl phthalate	ND		210	39	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
Caprolactam	ND		210	49	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
Carbazole	ND		210	42	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
Chrysene	ND		210	51	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
Dibenz(a,h)anthracene	ND		210	43	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
Dibenzofuran	ND		210	37	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
Diethyl phthalate	ND		210	38	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
Dimethyl phthalate	ND		210	41	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
Di-n-butyl phthalate	ND		210	48	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
Di-n-octyl phthalate	ND		210	40	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
Fluoranthene	ND		210	39	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1
Fluorene	ND		210	39	ug/Kg	☆	05/29/25 13:50	05/30/25 20:53	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-2 Native

Lab Sample ID: 480-229710-22

Date Collected: 05/27/25 09:35

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 79.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	ND		210	41	ug/Kg	☼	05/29/25 13:50	05/30/25 20:53	1
Hexachlorobutadiene	ND		210	32	ug/Kg	☼	05/29/25 13:50	05/30/25 20:53	1
Hexachlorocyclopentadiene	ND		410	93	ug/Kg	☼	05/29/25 13:50	05/30/25 20:53	1
Hexachloroethane	ND		210	39	ug/Kg	☼	05/29/25 13:50	05/30/25 20:53	1
Indeno[1,2,3-cd]pyrene	ND		210	32	ug/Kg	☼	05/29/25 13:50	05/30/25 20:53	1
Isophorone	ND		210	44	ug/Kg	☼	05/29/25 13:50	05/30/25 20:53	1
Naphthalene	ND		210	35	ug/Kg	☼	05/29/25 13:50	05/30/25 20:53	1
Nitrobenzene	ND		210	36	ug/Kg	☼	05/29/25 13:50	05/30/25 20:53	1
N-Nitrosodi-n-propylamine	ND		210	48	ug/Kg	☼	05/29/25 13:50	05/30/25 20:53	1
N-Nitrosodiphenylamine	ND		210	36	ug/Kg	☼	05/29/25 13:50	05/30/25 20:53	1
Pentachlorophenol	ND		410	68	ug/Kg	☼	05/29/25 13:50	05/30/25 20:53	1
Phenanthrene	ND		210	40	ug/Kg	☼	05/29/25 13:50	05/30/25 20:53	1
Phenol	ND		210	39	ug/Kg	☼	05/29/25 13:50	05/30/25 20:53	1
Pyrene	ND		210	40	ug/Kg	☼	05/29/25 13:50	05/30/25 20:53	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	14000	T J	ug/Kg	☼	1.99	N/A	05/29/25 13:50	05/30/25 20:53	1
Unknown	2800	T J	ug/Kg	☼	3.47	N/A	05/29/25 13:50	05/30/25 20:53	1
Unknown	390	T J	ug/Kg	☼	10.39	N/A	05/29/25 13:50	05/30/25 20:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	77		10 - 140	05/29/25 13:50	05/30/25 20:53	1
2-Fluorobiphenyl (Surr)	81		29 - 120	05/29/25 13:50	05/30/25 20:53	1
2-Fluorophenol (Surr)	73		18 - 120	05/29/25 13:50	05/30/25 20:53	1
Nitrobenzene-d5 (Surr)	78		22 - 120	05/29/25 13:50	05/30/25 20:53	1
Phenol-d5 (Surr)	73		23 - 120	05/29/25 13:50	05/30/25 20:53	1
p-Terphenyl-d14 (Surr)	68		28 - 124	05/29/25 13:50	05/30/25 20:53	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.1	0.80	ug/Kg	☼	05/29/25 06:48	06/02/25 10:27	1
4,4'-DDE	ND		4.1	0.87	ug/Kg	☼	05/29/25 06:48	06/02/25 10:27	1
4,4'-DDT	ND		4.1	0.97	ug/Kg	☼	05/29/25 06:48	06/02/25 10:27	1
beta-BHC	ND		4.1	0.74	ug/Kg	☼	05/29/25 06:48	06/02/25 10:27	1
cis-Chlordane	ND		4.1	2.1	ug/Kg	☼	05/29/25 06:48	06/02/25 10:27	1
alpha-BHC	ND		4.1	0.74	ug/Kg	☼	05/29/25 06:48	06/02/25 10:27	1
Aldrin	ND		4.1	1.0	ug/Kg	☼	05/29/25 06:48	06/02/25 10:27	1
delta-BHC	ND		4.1	0.77	ug/Kg	☼	05/29/25 06:48	06/02/25 10:27	1
Dieldrin	ND		4.1	0.99	ug/Kg	☼	05/29/25 06:48	06/02/25 10:27	1
Endosulfan I	ND		4.1	0.79	ug/Kg	☼	05/29/25 06:48	06/02/25 10:27	1
Endosulfan II	ND		4.1	0.74	ug/Kg	☼	05/29/25 06:48	06/02/25 10:27	1
Endosulfan sulfate	ND		4.1	0.77	ug/Kg	☼	05/29/25 06:48	06/02/25 10:27	1
Endrin	ND		4.1	0.82	ug/Kg	☼	05/29/25 06:48	06/02/25 10:27	1
Endrin aldehyde	ND		4.1	1.1	ug/Kg	☼	05/29/25 06:48	06/02/25 10:27	1
Endrin ketone	ND		4.1	1.0	ug/Kg	☼	05/29/25 06:48	06/02/25 10:27	1
gamma-BHC (Lindane)	ND		4.1	0.76	ug/Kg	☼	05/29/25 06:48	06/02/25 10:27	1
trans-Chlordane	ND		4.1	1.3	ug/Kg	☼	05/29/25 06:48	06/02/25 10:27	1
Heptachlor	ND		4.1	0.90	ug/Kg	☼	05/29/25 06:48	06/02/25 10:27	1
Heptachlor epoxide	ND		4.1	1.1	ug/Kg	☼	05/29/25 06:48	06/02/25 10:27	1
Methoxychlor	4.1	B	4.1	0.84	ug/Kg	☼	05/29/25 06:48	06/02/25 10:27	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-2 Native

Lab Sample ID: 480-229710-22

Date Collected: 05/27/25 09:35

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 79.3

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	ND		41	24	ug/Kg	✱	05/29/25 06:48	06/02/25 10:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	78		45 - 120				05/29/25 06:48	06/02/25 10:27	1
DCB Decachlorobiphenyl	86		45 - 120				05/29/25 06:48	06/02/25 10:27	1
Tetrachloro-m-xylene	67		30 - 124				05/29/25 06:48	06/02/25 10:27	1
Tetrachloro-m-xylene	81		30 - 124				05/29/25 06:48	06/02/25 10:27	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.047	mg/Kg	✱	05/30/25 06:41	05/30/25 21:15	1
PCB-1221	ND		0.24	0.047	mg/Kg	✱	05/30/25 06:41	05/30/25 21:15	1
PCB-1232	ND		0.24	0.047	mg/Kg	✱	05/30/25 06:41	05/30/25 21:15	1
PCB-1242	ND		0.24	0.047	mg/Kg	✱	05/30/25 06:41	05/30/25 21:15	1
PCB-1248	ND		0.24	0.047	mg/Kg	✱	05/30/25 06:41	05/30/25 21:15	1
PCB-1254	ND		0.24	0.11	mg/Kg	✱	05/30/25 06:41	05/30/25 21:15	1
PCB-1260	ND		0.24	0.11	mg/Kg	✱	05/30/25 06:41	05/30/25 21:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	121		60 - 154				05/30/25 06:41	05/30/25 21:15	1
Tetrachloro-m-xylene	127		60 - 154				05/30/25 06:41	05/30/25 21:15	1
DCB Decachlorobiphenyl	113		65 - 174				05/30/25 06:41	05/30/25 21:15	1
DCB Decachlorobiphenyl	118		65 - 174				05/30/25 06:41	05/30/25 21:15	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.40	0.13	ng/g	✱	06/02/25 07:37	06/03/25 21:11	1
Perfluoropentanoic acid (PFPeA)	ND		0.20	0.050	ng/g	✱	06/02/25 07:37	06/03/25 21:11	1
Perfluorohexanoic acid (PFHxA)	ND		0.20	0.060	ng/g	✱	06/02/25 07:37	06/03/25 21:11	1
Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.070	ng/g	✱	06/02/25 07:37	06/03/25 21:11	1
Perfluorooctanoic acid (PFOA)	ND		0.20	0.060	ng/g	✱	06/02/25 07:37	06/03/25 21:11	1
Perfluorononanoic acid (PFNA)	ND		0.20	0.060	ng/g	✱	06/02/25 07:37	06/03/25 21:11	1
Perfluorodecanoic acid (PFDA)	ND		0.20	0.050	ng/g	✱	06/02/25 07:37	06/03/25 21:11	1
Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.050	ng/g	✱	06/02/25 07:37	06/03/25 21:11	1
Perfluorododecanoic acid (PFDoA)	ND		0.20	0.050	ng/g	✱	06/02/25 07:37	06/03/25 21:11	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.20	0.070	ng/g	✱	06/02/25 07:37	06/03/25 21:11	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.20	0.070	ng/g	✱	06/02/25 07:37	06/03/25 21:11	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.070	ng/g	✱	06/02/25 07:37	06/03/25 21:11	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.20	0.060	ng/g	✱	06/02/25 07:37	06/03/25 21:11	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.050	ng/g	✱	06/02/25 07:37	06/03/25 21:11	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.070	ng/g	✱	06/02/25 07:37	06/03/25 21:11	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.20	0.11	ng/g	✱	06/02/25 07:37	06/03/25 21:11	1
Perfluorononanesulfonic acid (PFNS)	ND		0.20	0.070	ng/g	✱	06/02/25 07:37	06/03/25 21:11	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.050	ng/g	✱	06/02/25 07:37	06/03/25 21:11	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.060	ng/g	✱	06/02/25 07:37	06/03/25 21:11	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.40	0.10	ng/g	✱	06/02/25 07:37	06/03/25 21:11	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.40	0.13	ng/g	✱	06/02/25 07:37	06/03/25 21:11	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-2 Native

Lab Sample ID: 480-229710-22

Date Collected: 05/27/25 09:35

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 79.3

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.40	0.13	ng/g	✱	06/02/25 07:37	06/03/25 21:11	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.090	ng/g	✱	06/02/25 07:37	06/03/25 21:11	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.20	0.090	ng/g	✱	06/02/25 07:37	06/03/25 21:11	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.20	0.10	ng/g	✱	06/02/25 07:37	06/03/25 21:11	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.20	0.080	ng/g	✱	06/02/25 07:37	06/03/25 21:11	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.20	0.11	ng/g	✱	06/02/25 07:37	06/03/25 21:11	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.0	0.30	ng/g	✱	06/02/25 07:37	06/03/25 21:11	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.0	0.30	ng/g	✱	06/02/25 07:37	06/03/25 21:11	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.20	0.11	ng/g	✱	06/02/25 07:37	06/03/25 21:11	1
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND		0.20	0.060	ng/g	✱	06/02/25 07:37	06/03/25 21:11	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.20	0.070	ng/g	✱	06/02/25 07:37	06/03/25 21:11	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.20	0.050	ng/g	✱	06/02/25 07:37	06/03/25 21:11	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.20	0.070	ng/g	✱	06/02/25 07:37	06/03/25 21:11	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.20	0.050	ng/g	✱	06/02/25 07:37	06/03/25 21:11	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.40	0.20	ng/g	✱	06/02/25 07:37	06/03/25 21:11	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		1.0	0.50	ng/g	✱	06/02/25 07:37	06/03/25 21:11	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		1.0	0.40	ng/g	✱	06/02/25 07:37	06/03/25 21:11	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	95.7		8 - 130	06/02/25 07:37	06/03/25 21:11	1
13C5-PFPeA	98.3		35 - 130	06/02/25 07:37	06/03/25 21:11	1
13C5-PFHxA	97.0		40 - 130	06/02/25 07:37	06/03/25 21:11	1
13C4-PFHpA	101		40 - 130	06/02/25 07:37	06/03/25 21:11	1
13C8-PFOA	97.3		40 - 130	06/02/25 07:37	06/03/25 21:11	1
13C9-PFNA	95.4		40 - 130	06/02/25 07:37	06/03/25 21:11	1
13C6-PFDA	92.0		40 - 130	06/02/25 07:37	06/03/25 21:11	1
13C7-PFUnA	99.0		40 - 130	06/02/25 07:37	06/03/25 21:11	1
13C2-PFTeDA	97.7		20 - 130	06/02/25 07:37	06/03/25 21:11	1
13C3-PFBS	90.7		40 - 135	06/02/25 07:37	06/03/25 21:11	1
13C3-PFHxS	89.2		40 - 130	06/02/25 07:37	06/03/25 21:11	1
13C8-PFOS	76.5		40 - 130	06/02/25 07:37	06/03/25 21:11	1
13C8-PFOSA	90.4		40 - 130	06/02/25 07:37	06/03/25 21:11	1
d3-NMeFOSAA	89.1		40 - 135	06/02/25 07:37	06/03/25 21:11	1
d5-NEtFOSAA	80.2		40 - 150	06/02/25 07:37	06/03/25 21:11	1
13C2 4:2 FTS	97.6		40 - 165	06/02/25 07:37	06/03/25 21:11	1
13C2 6:2 FTS	124		40 - 215	06/02/25 07:37	06/03/25 21:11	1
13C2 8:2 FTS	93.1		40 - 275	06/02/25 07:37	06/03/25 21:11	1
13C3-HFPO-DA	93.9		40 - 130	06/02/25 07:37	06/03/25 21:11	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-2 Native

Lab Sample ID: 480-229710-22

Date Collected: 05/27/25 09:35

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 79.3

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
D7-NMeFOSE	71.2		20 - 130	06/02/25 07:37	06/03/25 21:11	1
D9-NEtFOSE	65.2		15 - 130	06/02/25 07:37	06/03/25 21:11	1
d5-NEtPFOSA	71.3		10 - 130	06/02/25 07:37	06/03/25 21:11	1
d3-NMePFOSA	75.0		10 - 130	06/02/25 07:37	06/03/25 21:11	1
13C2 PFDoA	98.5		40 - 130	06/02/25 07:37	06/03/25 21:11	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid (9Cl-PF3ONS)	ND		0.20	0.089	ng/g	☼	06/04/25 14:32	06/05/25 11:50	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.20	0.079	ng/g	☼	06/04/25 14:32	06/05/25 11:50	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3-HFPO-DA	133	*5+	40 - 130				06/04/25 14:32	06/05/25 11:50	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	21800		13.1	11.3	mg/Kg	✱	05/29/25 15:23	05/30/25 22:24	1
Antimony	ND		19.7	0.70	mg/Kg	✱	05/29/25 15:23	05/30/25 22:24	1
Arsenic	6.6		2.6	1.2	mg/Kg	✱	05/29/25 15:23	05/30/25 22:24	1
Barium	531		0.66	0.18	mg/Kg	✱	05/29/25 15:23	05/30/25 22:24	1
Beryllium	1.1	^5-	0.26	0.053	mg/Kg	✱	05/29/25 15:23	05/30/25 22:24	1
Cadmium	0.25	J	0.26	0.092	mg/Kg	✱	05/29/25 15:23	05/30/25 22:24	1
Calcium	42200		65.7	35.5	mg/Kg	✱	05/29/25 15:23	06/04/25 19:30	1
Chromium	28.2		0.66	0.47	mg/Kg	✱	05/29/25 15:23	05/30/25 22:24	1
Cobalt	11.5		0.66	0.13	mg/Kg	✱	05/29/25 15:23	05/30/25 22:24	1
Copper	24.4		1.3	0.75	mg/Kg	✱	05/29/25 15:23	05/30/25 22:24	1
Iron	30900	^2 ^+	13.1	11.2	mg/Kg	✱	05/29/25 15:23	05/30/25 22:24	1
Lead	13.3		1.3	0.60	mg/Kg	✱	05/29/25 15:23	05/30/25 22:24	1
Magnesium	8480		26.3	11.2	mg/Kg	✱	05/29/25 15:23	05/30/25 22:24	1
Manganese	299		1.3	0.37	mg/Kg	✱	05/29/25 15:23	06/04/25 19:30	1
Nickel	35.6	^5-	6.6	0.33	mg/Kg	✱	05/29/25 15:23	05/30/25 22:24	1
Potassium	5060		39.4	31.9	mg/Kg	✱	05/29/25 15:23	05/30/25 22:24	1
Selenium	ND		5.3	1.1	mg/Kg	✱	05/29/25 15:23	05/30/25 22:24	1
Silver	ND	^5-	0.79	0.26	mg/Kg	✱	05/29/25 15:23	06/04/25 19:30	1
Sodium	231		184	80.6	mg/Kg	✱	05/29/25 15:23	06/04/25 19:30	1
Thallium	ND		7.9	1.0	mg/Kg	✱	05/29/25 15:23	05/30/25 22:24	1
Vanadium	38.0		0.66	0.17	mg/Kg	✱	05/29/25 15:23	05/30/25 22:24	1
Zinc	73.4	^5-	2.6	1.3	mg/Kg	✱	05/29/25 15:23	05/30/25 22:24	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019	J	0.027	0.0061	mg/Kg	✱	05/30/25 13:38	05/30/25 15:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		1.1	0.53	mg/Kg	✱	05/31/25 12:17	05/31/25 17:35	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-3 Fill

Lab Sample ID: 480-229710-23

Date Collected: 05/27/25 09:40

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 91.9

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.4	0.39	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
1,1,2,2-Tetrachloroethane	ND	*3 vs	5.4	0.87	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.4	1.2	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
1,1,2-Trichloroethane	ND	vs	5.4	0.70	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
1,1-Dichloroethane	ND	vs	5.4	0.65	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
1,1-Dichloroethene	ND	vs	5.4	0.66	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
1,2,4-Trichlorobenzene	ND	*3 vs	5.4	0.33	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
1,2-Dibromo-3-Chloropropane	ND	*3 vs	5.4	2.7	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
1,2-Dichlorobenzene	ND	*3 vs	5.4	0.42	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
1,2-Dichloroethane	ND	vs	5.4	0.27	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
1,2-Dichloropropane	ND	vs	5.4	2.7	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
1,3-Dichlorobenzene	ND	*3 vs	5.4	0.28	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
1,4-Dichlorobenzene	ND	*3 vs	5.4	0.75	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
2-Butanone (MEK)	ND	vs	27	2.0	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
2-Hexanone	ND	vs	27	2.7	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
4-Methyl-2-pentanone (MIBK)	ND	vs	27	1.8	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
Acetone	ND	vs	27	4.5	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
Benzene	ND	vs	5.4	0.26	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
Bromoform	ND	vs	5.4	2.7	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
Bromomethane	ND	vs	5.4	0.48	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
Carbon disulfide	ND	vs	5.4	2.7	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
Carbon tetrachloride	ND	vs	5.4	0.52	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
Chlorobenzene	ND	vs	5.4	0.71	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
Dibromochloromethane	ND	vs	5.4	0.69	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
Chloroethane	ND	vs	5.4	1.2	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
Chloroform	0.43	J vs	5.4	0.33	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
Chloromethane	ND	vs	5.4	0.32	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
cis-1,2-Dichloroethene	ND	vs	5.4	0.69	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
Cyclohexane	ND	vs	5.4	0.75	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
Bromodichloromethane	ND	vs	5.4	0.72	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
Dichlorodifluoromethane	ND	vs	5.4	0.44	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
Ethylbenzene	ND	vs	5.4	0.37	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
1,2-Dibromoethane	ND	vs	5.4	0.69	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
Isopropylbenzene	ND	*3 vs	5.4	0.81	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
Methyl acetate	ND	vs	27	3.2	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
Methyl tert-butyl ether	ND	vs	5.4	0.53	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
Methylcyclohexane	ND	vs	5.4	0.82	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
Methylene Chloride	3.6	J vs	5.4	2.5	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
Tetrachloroethene	ND	vs	5.4	0.72	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
Toluene	ND	vs	5.4	0.41	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
trans-1,2-Dichloroethene	ND	vs	5.4	0.55	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
trans-1,3-Dichloropropene	ND	vs	5.4	2.4	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
Trichloroethene	ND	vs	5.4	1.2	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
Trichlorofluoromethane	ND	vs	5.4	0.51	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
Vinyl chloride	ND	vs	5.4	0.65	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
Xylenes, Total	ND	vs	11	0.90	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
cis-1,3-Dichloropropene	ND	vs	5.4	0.77	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1
Styrene	ND	vs	5.4	0.27	ug/Kg	✱	05/29/25 18:01	05/29/25 22:52	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-3 Fill

Lab Sample ID: 480-229710-23

Date Collected: 05/27/25 09:40

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 91.9

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼		N/A	05/29/25 18:01	05/29/25 22:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		64 - 126				05/29/25 18:01	05/29/25 22:52	1
4-Bromofluorobenzene (Surr)	85		72 - 126				05/29/25 18:01	05/29/25 22:52	1
Toluene-d8 (Surr)	116		71 - 125				05/29/25 18:01	05/29/25 22:52	1
Dibromofluoromethane (Surr)	111		60 - 140				05/29/25 18:01	05/29/25 22:52	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		110	40	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
2,4,5-Trichlorophenol	ND		180	37	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
2,4,6-Trichlorophenol	ND		180	28	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
2,4-Dichlorophenol	ND		180	36	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
2,4-Dimethylphenol	ND		180	38	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
2,4-Dinitrophenol	ND		1800	35	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
2,4-Dinitrotoluene	ND		180	25	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
2,6-Dinitrotoluene	ND		180	26	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
2-Chloronaphthalene	ND		180	34	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
2-Chlorophenol	ND		180	29	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
2-Methylnaphthalene	ND		180	29	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
2-Methylphenol	ND		180	30	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
2-Nitroaniline	ND		360	31	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
2-Nitrophenol	ND		180	21	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
3,3'-Dichlorobenzidine	ND		360	53	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
3-Nitroaniline	ND		360	26	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
4,6-Dinitro-2-methylphenol	ND		360	40	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
4-Bromophenyl phenyl ether	ND		180	31	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
4-Chloro-3-methylphenol	ND		180	37	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
4-Chloroaniline	ND		180	26	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
4-Chlorophenyl phenyl ether	ND		180	38	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
4-Methylphenol	ND		360	33	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
4-Nitroaniline	ND		360	27	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
4-Nitrophenol	ND		360	50	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
Acenaphthene	ND		180	34	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
Acenaphthylene	ND		180	35	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
Acetophenone	ND		180	32	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
Anthracene	ND		180	34	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
Atrazine	ND		180	62	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
Benzaldehyde	ND		180	140	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
Benzo[a]anthracene	ND		180	25	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
Benzo[a]pyrene	ND		180	31	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
Benzo[b]fluoranthene	46 J		180	25	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
Benzo[g,h,i]perylene	ND		180	32	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
Benzo[k]fluoranthene	ND		180	41	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
Biphenyl	ND		180	34	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
bis (2-chloroisopropyl) ether	ND		180	37	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
Bis(2-chloroethoxy)methane	ND		180	35	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
Bis(2-chloroethyl)ether	ND		180	34	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
Bis(2-ethylhexyl) phthalate	ND		180	40	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-3 Fill

Lab Sample ID: 480-229710-23

Date Collected: 05/27/25 09:40

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 91.9

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	ND		180	34	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
Caprolactam	ND		180	42	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
Carbazole	ND		180	36	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
Chrysene	ND		180	44	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
Dibenz(a,h)anthracene	ND		180	37	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
Dibenzofuran	ND		180	32	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
Diethyl phthalate	ND		180	33	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
Dimethyl phthalate	ND		180	35	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
Di-n-butyl phthalate	ND		180	41	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
Di-n-octyl phthalate	ND		180	35	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
Fluoranthene	110	J	180	33	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
Fluorene	ND		180	33	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
Hexachlorobenzene	ND		180	35	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
Hexachlorobutadiene	ND		180	27	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
Hexachlorocyclopentadiene	ND		360	80	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
Hexachloroethane	ND		180	33	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
Indeno[1,2,3-cd]pyrene	ND		180	27	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
Isophorone	ND		180	37	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
Naphthalene	ND		180	30	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
Nitrobenzene	ND		180	31	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
N-Nitrosodi-n-propylamine	ND		180	41	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
N-Nitrosodiphenylamine	ND		180	31	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
Pentachlorophenol	ND		360	58	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
Phenanthrene	ND		180	34	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
Phenol	ND		180	33	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1
Pyrene	74	J	180	35	ug/Kg	☼	05/29/25 13:50	05/30/25 21:18	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	42000	T J	ug/Kg	☼	1.99	N/A	05/29/25 13:50	05/30/25 21:18	1
Unknown	3100	T J	ug/Kg	☼	3.47	N/A	05/29/25 13:50	05/30/25 21:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	72		10 - 140	05/29/25 13:50	05/30/25 21:18	1
2-Fluorobiphenyl (Surr)	74		29 - 120	05/29/25 13:50	05/30/25 21:18	1
2-Fluorophenol (Surr)	70		18 - 120	05/29/25 13:50	05/30/25 21:18	1
Nitrobenzene-d5 (Surr)	76		22 - 120	05/29/25 13:50	05/30/25 21:18	1
Phenol-d5 (Surr)	70		23 - 120	05/29/25 13:50	05/30/25 21:18	1
p-Terphenyl-d14 (Surr)	67		28 - 124	05/29/25 13:50	05/30/25 21:18	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		3.5	0.68	ug/Kg	☼	05/29/25 06:48	06/02/25 10:47	1
4,4'-DDE	ND		3.5	0.74	ug/Kg	☼	05/29/25 06:48	06/02/25 10:47	1
4,4'-DDT	2.8	J	3.5	0.82	ug/Kg	☼	05/29/25 06:48	06/02/25 10:47	1
beta-BHC	ND		3.5	0.63	ug/Kg	☼	05/29/25 06:48	06/02/25 10:47	1
cis-Chlordane	ND		3.5	1.7	ug/Kg	☼	05/29/25 06:48	06/02/25 10:47	1
alpha-BHC	ND		3.5	0.63	ug/Kg	☼	05/29/25 06:48	06/02/25 10:47	1
Aldrin	ND		3.5	0.86	ug/Kg	☼	05/29/25 06:48	06/02/25 10:47	1
delta-BHC	ND		3.5	0.65	ug/Kg	☼	05/29/25 06:48	06/02/25 10:47	1
Dieldrin	ND		3.5	0.84	ug/Kg	☼	05/29/25 06:48	06/02/25 10:47	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-3 Fill

Lab Sample ID: 480-229710-23

Date Collected: 05/27/25 09:40

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 91.9

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan I	ND		3.5	0.67	ug/Kg	✱	05/29/25 06:48	06/02/25 10:47	1
Endosulfan II	ND		3.5	0.63	ug/Kg	✱	05/29/25 06:48	06/02/25 10:47	1
Endosulfan sulfate	ND		3.5	0.66	ug/Kg	✱	05/29/25 06:48	06/02/25 10:47	1
Endrin	ND		3.5	0.70	ug/Kg	✱	05/29/25 06:48	06/02/25 10:47	1
Endrin aldehyde	ND		3.5	0.90	ug/Kg	✱	05/29/25 06:48	06/02/25 10:47	1
Endrin ketone	ND		3.5	0.86	ug/Kg	✱	05/29/25 06:48	06/02/25 10:47	1
gamma-BHC (Lindane)	ND		3.5	0.64	ug/Kg	✱	05/29/25 06:48	06/02/25 10:47	1
trans-Chlordane	ND		3.5	1.1	ug/Kg	✱	05/29/25 06:48	06/02/25 10:47	1
Heptachlor	ND		3.5	0.76	ug/Kg	✱	05/29/25 06:48	06/02/25 10:47	1
Heptachlor epoxide	ND		3.5	0.91	ug/Kg	✱	05/29/25 06:48	06/02/25 10:47	1
Methoxychlor	4.1	B	3.5	0.72	ug/Kg	✱	05/29/25 06:48	06/02/25 10:47	1
Toxaphene	ND		35	20	ug/Kg	✱	05/29/25 06:48	06/02/25 10:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	63		45 - 120	05/29/25 06:48	06/02/25 10:47	1
DCB Decachlorobiphenyl	69		45 - 120	05/29/25 06:48	06/02/25 10:47	1
Tetrachloro-m-xylene	50		30 - 124	05/29/25 06:48	06/02/25 10:47	1
Tetrachloro-m-xylene	65		30 - 124	05/29/25 06:48	06/02/25 10:47	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.21	0.042	mg/Kg	✱	05/30/25 06:41	05/30/25 21:33	1
PCB-1221	ND		0.21	0.042	mg/Kg	✱	05/30/25 06:41	05/30/25 21:33	1
PCB-1232	ND		0.21	0.042	mg/Kg	✱	05/30/25 06:41	05/30/25 21:33	1
PCB-1242	ND		0.21	0.042	mg/Kg	✱	05/30/25 06:41	05/30/25 21:33	1
PCB-1248	ND		0.21	0.042	mg/Kg	✱	05/30/25 06:41	05/30/25 21:33	1
PCB-1254	ND		0.21	0.10	mg/Kg	✱	05/30/25 06:41	05/30/25 21:33	1
PCB-1260	ND		0.21	0.10	mg/Kg	✱	05/30/25 06:41	05/30/25 21:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	113		60 - 154	05/30/25 06:41	05/30/25 21:33	1
Tetrachloro-m-xylene	117		60 - 154	05/30/25 06:41	05/30/25 21:33	1
DCB Decachlorobiphenyl	106		65 - 174	05/30/25 06:41	05/30/25 21:33	1
DCB Decachlorobiphenyl	111		65 - 174	05/30/25 06:41	05/30/25 21:33	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.40	0.13	ng/g	✱	06/04/25 14:32	06/05/25 12:03	1
Perfluoropentanoic acid (PFPeA)	ND		0.20	0.050	ng/g	✱	06/04/25 14:32	06/05/25 12:03	1
Perfluorohexanoic acid (PFHxA)	ND		0.20	0.060	ng/g	✱	06/04/25 14:32	06/05/25 12:03	1
Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.070	ng/g	✱	06/04/25 14:32	06/05/25 12:03	1
Perfluorooctanoic acid (PFOA)	ND		0.20	0.060	ng/g	✱	06/04/25 14:32	06/05/25 12:03	1
Perfluorononanoic acid (PFNA)	ND		0.20	0.060	ng/g	✱	06/04/25 14:32	06/05/25 12:03	1
Perfluorodecanoic acid (PFDA)	ND		0.20	0.050	ng/g	✱	06/04/25 14:32	06/05/25 12:03	1
Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.050	ng/g	✱	06/04/25 14:32	06/05/25 12:03	1
Perfluorododecanoic acid (PFDoA)	ND		0.20	0.050	ng/g	✱	06/04/25 14:32	06/05/25 12:03	1
Perfluorotridecanoic acid (PFTTrDA)	ND		0.20	0.070	ng/g	✱	06/04/25 14:32	06/05/25 12:03	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.20	0.070	ng/g	✱	06/04/25 14:32	06/05/25 12:03	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.070	ng/g	✱	06/04/25 14:32	06/05/25 12:03	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.20	0.060	ng/g	✱	06/04/25 14:32	06/05/25 12:03	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-3 Fill

Lab Sample ID: 480-229710-23

Date Collected: 05/27/25 09:40

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 91.9

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.050	ng/g	✱	06/04/25 14:32	06/05/25 12:03	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.070	ng/g	✱	06/04/25 14:32	06/05/25 12:03	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.20	0.11	ng/g	✱	06/04/25 14:32	06/05/25 12:03	1
Perfluorononanesulfonic acid (PFNS)	ND		0.20	0.070	ng/g	✱	06/04/25 14:32	06/05/25 12:03	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.050	ng/g	✱	06/04/25 14:32	06/05/25 12:03	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.060	ng/g	✱	06/04/25 14:32	06/05/25 12:03	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.40	0.099	ng/g	✱	06/04/25 14:32	06/05/25 12:03	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.40	0.13	ng/g	✱	06/04/25 14:32	06/05/25 12:03	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.40	0.13	ng/g	✱	06/04/25 14:32	06/05/25 12:03	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.089	ng/g	✱	06/04/25 14:32	06/05/25 12:03	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.20	0.089	ng/g	✱	06/04/25 14:32	06/05/25 12:03	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.20	0.099	ng/g	✱	06/04/25 14:32	06/05/25 12:03	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.20	0.079	ng/g	✱	06/04/25 14:32	06/05/25 12:03	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.20	0.11	ng/g	✱	06/04/25 14:32	06/05/25 12:03	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		0.99	0.30	ng/g	✱	06/04/25 14:32	06/05/25 12:03	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		0.99	0.30	ng/g	✱	06/04/25 14:32	06/05/25 12:03	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.20	0.11	ng/g	✱	06/04/25 14:32	06/05/25 12:03	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.20	0.060	ng/g	✱	06/04/25 14:32	06/05/25 12:03	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.20	0.070	ng/g	✱	06/04/25 14:32	06/05/25 12:03	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.20	0.050	ng/g	✱	06/04/25 14:32	06/05/25 12:03	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.20	0.070	ng/g	✱	06/04/25 14:32	06/05/25 12:03	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.20	0.089	ng/g	✱	06/04/25 14:32	06/05/25 12:03	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.20	0.079	ng/g	✱	06/04/25 14:32	06/05/25 12:03	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.20	0.050	ng/g	✱	06/04/25 14:32	06/05/25 12:03	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.40	0.20	ng/g	✱	06/04/25 14:32	06/05/25 12:03	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		0.99	0.50	ng/g	✱	06/04/25 14:32	06/05/25 12:03	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		0.99	0.40	ng/g	✱	06/04/25 14:32	06/05/25 12:03	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4-PFBA	116		8 - 130				06/04/25 14:32	06/05/25 12:03	1
13C5-PFPeA	117		35 - 130				06/04/25 14:32	06/05/25 12:03	1
13C5-PFHxA	116		40 - 130				06/04/25 14:32	06/05/25 12:03	1
13C4-PFHpA	110		40 - 130				06/04/25 14:32	06/05/25 12:03	1
13C8-PFOA	106		40 - 130				06/04/25 14:32	06/05/25 12:03	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-3 Fill

Lab Sample ID: 480-229710-23

Date Collected: 05/27/25 09:40

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 91.9

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C9-PFNA	103		40 - 130	06/04/25 14:32	06/05/25 12:03	1
13C6-PFDA	100		40 - 130	06/04/25 14:32	06/05/25 12:03	1
13C7-PFUnA	90.5		40 - 130	06/04/25 14:32	06/05/25 12:03	1
13C2-PFTeDA	23.3		20 - 130	06/04/25 14:32	06/05/25 12:03	1
13C3-PFBS	115		40 - 135	06/04/25 14:32	06/05/25 12:03	1
13C3-PFHxS	105		40 - 130	06/04/25 14:32	06/05/25 12:03	1
13C8-PFOS	96.7		40 - 130	06/04/25 14:32	06/05/25 12:03	1
13C8-PFOSA	86.2		40 - 130	06/04/25 14:32	06/05/25 12:03	1
d3-NMeFOSAA	73.7		40 - 135	06/04/25 14:32	06/05/25 12:03	1
d5-NEtFOSAA	80.1		40 - 150	06/04/25 14:32	06/05/25 12:03	1
13C2 4:2 FTS	131		40 - 165	06/04/25 14:32	06/05/25 12:03	1
13C2 6:2 FTS	119		40 - 215	06/04/25 14:32	06/05/25 12:03	1
13C2 8:2 FTS	101		40 - 275	06/04/25 14:32	06/05/25 12:03	1
13C3-HFPO-DA	114		40 - 130	06/04/25 14:32	06/05/25 12:03	1
D7-NMeFOSE	51.7		20 - 130	06/04/25 14:32	06/05/25 12:03	1
D9-NEtFOSE	40.4		15 - 130	06/04/25 14:32	06/05/25 12:03	1
d5-NEtPFOSA	51.1		10 - 130	06/04/25 14:32	06/05/25 12:03	1
d3-NMePFOSA	66.1		10 - 130	06/04/25 14:32	06/05/25 12:03	1
13C2 PFDoA	65.7		40 - 130	06/04/25 14:32	06/05/25 12:03	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13300		10.5	9.0	mg/Kg	☆	05/29/25 15:23	05/30/25 22:26	1
Antimony	0.74	J	15.7	0.56	mg/Kg	☆	05/29/25 15:23	05/30/25 22:26	1
Arsenic	9.7		2.1	0.92	mg/Kg	☆	05/29/25 15:23	05/30/25 22:26	1
Barium	61.2		0.52	0.15	mg/Kg	☆	05/29/25 15:23	05/30/25 22:26	1
Beryllium	1.1	^5-	0.21	0.042	mg/Kg	☆	05/29/25 15:23	05/30/25 22:26	1
Cadmium	0.33		0.21	0.073	mg/Kg	☆	05/29/25 15:23	05/30/25 22:26	1
Calcium	23800		52.4	28.3	mg/Kg	☆	05/29/25 15:23	06/04/25 19:32	1
Chromium	19.5		0.52	0.38	mg/Kg	☆	05/29/25 15:23	05/30/25 22:26	1
Cobalt	6.4		0.52	0.10	mg/Kg	☆	05/29/25 15:23	05/30/25 22:26	1
Copper	48.6		1.0	0.60	mg/Kg	☆	05/29/25 15:23	05/30/25 22:26	1
Iron	31400	^2 ^+	10.5	8.9	mg/Kg	☆	05/29/25 15:23	05/30/25 22:26	1
Lead	16.9		1.0	0.48	mg/Kg	☆	05/29/25 15:23	05/30/25 22:26	1
Magnesium	6280		21.0	8.9	mg/Kg	☆	05/29/25 15:23	05/30/25 22:26	1
Manganese	285		1.0	0.29	mg/Kg	☆	05/29/25 15:23	06/04/25 19:32	1
Nickel	15.7	^5-	5.2	0.26	mg/Kg	☆	05/29/25 15:23	05/30/25 22:26	1
Potassium	2550		31.4	25.4	mg/Kg	☆	05/29/25 15:23	05/30/25 22:26	1
Selenium	1.2	J	4.2	0.84	mg/Kg	☆	05/29/25 15:23	05/30/25 22:26	1
Silver	ND	^5-	0.63	0.21	mg/Kg	☆	05/29/25 15:23	06/04/25 19:32	1
Sodium	170		147	64.3	mg/Kg	☆	05/29/25 15:23	06/04/25 19:32	1
Thallium	ND		6.3	0.80	mg/Kg	☆	05/29/25 15:23	05/30/25 22:26	1
Vanadium	21.1		0.52	0.14	mg/Kg	☆	05/29/25 15:23	05/30/25 22:26	1
Zinc	155	^5-	2.1	1.1	mg/Kg	☆	05/29/25 15:23	05/30/25 22:26	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.021	0.0048	mg/Kg	☆	05/30/25 13:38	05/30/25 16:06	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-3 Fill

Lab Sample ID: 480-229710-23

Date Collected: 05/27/25 09:40

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 91.9

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.94	0.45	mg/Kg	☆	05/31/25 12:17	05/31/25 17:36	1

Client Sample ID: RI-BH-4 Fill

Lab Sample ID: 480-229710-24

Date Collected: 05/27/25 09:45

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 78.9

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	6.1	0.45	ug/Kg	☆	05/29/25 18:01	05/29/25 23:19	1
1,1,1,2-Tetrachloroethane	ND	*3 vs	6.1	0.99	ug/Kg	☆	05/29/25 18:01	05/29/25 23:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.1	1.4	ug/Kg	☆	05/29/25 18:01	05/29/25 23:19	1
1,1,2-Trichloroethane	ND	vs	6.1	0.80	ug/Kg	☆	05/29/25 18:01	05/29/25 23:19	1
1,1-Dichloroethane	ND	vs	6.1	0.75	ug/Kg	☆	05/29/25 18:01	05/29/25 23:19	1
1,1-Dichloroethene	ND	vs	6.1	0.75	ug/Kg	☆	05/29/25 18:01	05/29/25 23:19	1
1,2,4-Trichlorobenzene	ND	*3 vs	6.1	0.37	ug/Kg	☆	05/29/25 18:01	05/29/25 23:19	1
1,2-Dibromo-3-Chloropropane	ND	*3 vs	6.1	3.1	ug/Kg	☆	05/29/25 18:01	05/29/25 23:19	1
1,2-Dichlorobenzene	ND	*3 vs	6.1	0.48	ug/Kg	☆	05/29/25 18:01	05/29/25 23:19	1
1,2-Dichloroethane	ND	vs	6.1	0.31	ug/Kg	☆	05/29/25 18:01	05/29/25 23:19	1
1,2-Dichloropropane	ND	vs	6.1	3.1	ug/Kg	☆	05/29/25 18:01	05/29/25 23:19	1
1,3-Dichlorobenzene	ND	*3 vs	6.1	0.32	ug/Kg	☆	05/29/25 18:01	05/29/25 23:19	1
1,4-Dichlorobenzene	ND	*3 vs	6.1	0.86	ug/Kg	☆	05/29/25 18:01	05/29/25 23:19	1
2-Butanone (MEK)	38	vs	31	2.2	ug/Kg	☆	05/29/25 18:01	05/29/25 23:19	1
2-Hexanone	ND	vs	31	3.1	ug/Kg	☆	05/29/25 18:01	05/29/25 23:19	1
4-Methyl-2-pentanone (MIBK)	ND	vs	31	2.0	ug/Kg	☆	05/29/25 18:01	05/29/25 23:19	1
Acetone	200	vs	31	5.2	ug/Kg	☆	05/29/25 18:01	05/29/25 23:19	1
Benzene	ND	vs	6.1	0.30	ug/Kg	☆	05/29/25 18:01	05/29/25 23:19	1
Bromoform	ND	vs	6.1	3.1	ug/Kg	☆	05/29/25 18:01	05/29/25 23:19	1
Bromomethane	ND	vs	6.1	0.55	ug/Kg	☆	05/29/25 18:01	05/29/25 23:19	1
Carbon disulfide	ND	vs	6.1	3.1	ug/Kg	☆	05/29/25 18:01	05/29/25 23:19	1
Carbon tetrachloride	ND	vs	6.1	0.59	ug/Kg	☆	05/29/25 18:01	05/29/25 23:19	1
Chlorobenzene	ND	vs	6.1	0.81	ug/Kg	☆	05/29/25 18:01	05/29/25 23:19	1
Dibromochloromethane	ND	vs	6.1	0.78	ug/Kg	☆	05/29/25 18:01	05/29/25 23:19	1
Chloroethane	ND	vs	6.1	1.4	ug/Kg	☆	05/29/25 18:01	05/29/25 23:19	1
Chloroform	ND	vs	6.1	0.38	ug/Kg	☆	05/29/25 18:01	05/29/25 23:19	1
Chloromethane	ND	vs	6.1	0.37	ug/Kg	☆	05/29/25 18:01	05/29/25 23:19	1
cis-1,2-Dichloroethene	ND	vs	6.1	0.78	ug/Kg	☆	05/29/25 18:01	05/29/25 23:19	1
Cyclohexane	ND	vs	6.1	0.86	ug/Kg	☆	05/29/25 18:01	05/29/25 23:19	1
Bromodichloromethane	ND	vs	6.1	0.82	ug/Kg	☆	05/29/25 18:01	05/29/25 23:19	1
Dichlorodifluoromethane	ND	vs	6.1	0.51	ug/Kg	☆	05/29/25 18:01	05/29/25 23:19	1
Ethylbenzene	ND	vs	6.1	0.42	ug/Kg	☆	05/29/25 18:01	05/29/25 23:19	1
1,2-Dibromoethane	ND	vs	6.1	0.79	ug/Kg	☆	05/29/25 18:01	05/29/25 23:19	1
Isopropylbenzene	ND	*3 vs	6.1	0.92	ug/Kg	☆	05/29/25 18:01	05/29/25 23:19	1
Methyl acetate	ND	vs	31	3.7	ug/Kg	☆	05/29/25 18:01	05/29/25 23:19	1
Methyl tert-butyl ether	ND	vs	6.1	0.60	ug/Kg	☆	05/29/25 18:01	05/29/25 23:19	1
Methylcyclohexane	ND	vs	6.1	0.93	ug/Kg	☆	05/29/25 18:01	05/29/25 23:19	1
Methylene Chloride	7.7	vs	6.1	2.8	ug/Kg	☆	05/29/25 18:01	05/29/25 23:19	1
Tetrachloroethene	ND	vs	6.1	0.82	ug/Kg	☆	05/29/25 18:01	05/29/25 23:19	1
Toluene	ND	vs	6.1	0.46	ug/Kg	☆	05/29/25 18:01	05/29/25 23:19	1
trans-1,2-Dichloroethene	ND	vs	6.1	0.63	ug/Kg	☆	05/29/25 18:01	05/29/25 23:19	1
trans-1,3-Dichloropropene	ND	vs	6.1	2.7	ug/Kg	☆	05/29/25 18:01	05/29/25 23:19	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-4 Fill

Lab Sample ID: 480-229710-24

Date Collected: 05/27/25 09:45

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 78.9

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND	vs	6.1	1.3	ug/Kg	☼	05/29/25 18:01	05/29/25 23:19	1
Trichlorofluoromethane	ND	vs	6.1	0.58	ug/Kg	☼	05/29/25 18:01	05/29/25 23:19	1
Vinyl chloride	ND	vs	6.1	0.75	ug/Kg	☼	05/29/25 18:01	05/29/25 23:19	1
Xylenes, Total	ND	vs	12	1.0	ug/Kg	☼	05/29/25 18:01	05/29/25 23:19	1
cis-1,3-Dichloropropene	ND	vs	6.1	0.88	ug/Kg	☼	05/29/25 18:01	05/29/25 23:19	1
Styrene	ND	vs	6.1	0.31	ug/Kg	☼	05/29/25 18:01	05/29/25 23:19	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼		N/A	05/29/25 18:01	05/29/25 23:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		64 - 126	05/29/25 18:01	05/29/25 23:19	1
4-Bromofluorobenzene (Surr)	82		72 - 126	05/29/25 18:01	05/29/25 23:19	1
Toluene-d8 (Surr)	122		71 - 125	05/29/25 18:01	05/29/25 23:19	1
Dibromofluoromethane (Surr)	114		60 - 140	05/29/25 18:01	05/29/25 23:19	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		130	47	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
2,4,5-Trichlorophenol	ND		210	43	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
2,4,6-Trichlorophenol	ND		210	32	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
2,4-Dichlorophenol	ND		210	42	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
2,4-Dimethylphenol	ND		210	45	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
2,4-Dinitrophenol	ND		2100	41	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
2,4-Dinitrotoluene	ND		210	29	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
2,6-Dinitrotoluene	ND		210	31	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
2-Chloronaphthalene	ND		210	40	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
2-Chlorophenol	ND		210	33	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
2-Methylnaphthalene	180	J	210	34	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
2-Methylphenol	ND		210	35	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
2-Nitroaniline	ND		420	36	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
2-Nitrophenol	ND		210	24	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
3,3'-Dichlorobenzidine	ND		420	62	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
3-Nitroaniline	ND		420	30	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
4,6-Dinitro-2-methylphenol	ND		420	47	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
4-Bromophenyl phenyl ether	ND		210	36	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
4-Chloro-3-methylphenol	ND		210	44	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
4-Chloroaniline	ND		210	31	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
4-Chlorophenyl phenyl ether	ND		210	45	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
4-Methylphenol	87	J	420	38	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
4-Nitroaniline	ND		420	31	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
4-Nitrophenol	ND		420	58	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
Acenaphthene	ND		210	40	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
Acenaphthylene	ND		210	41	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
Acetophenone	61	J	210	38	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
Anthracene	ND		210	39	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
Atrazine	ND		210	72	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
Benzaldehyde	ND		210	160	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
Benzo[a]anthracene	ND		210	29	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
Benzo[a]pyrene	ND		210	36	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-4 Fill

Lab Sample ID: 480-229710-24

Date Collected: 05/27/25 09:45

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 78.9

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	ND		210	29	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
Benzo[g,h,i]perylene	ND		210	37	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
Benzo[k]fluoranthene	ND		210	48	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
Biphenyl	ND		210	40	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
bis (2-chloroisopropyl) ether	ND		210	44	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
Bis(2-chloroethoxy)methane	ND		210	41	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
Bis(2-chloroethyl)ether	ND		210	40	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
Bis(2-ethylhexyl) phthalate	ND		210	46	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
Butyl benzyl phthalate	ND		210	39	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
Caprolactam	ND		210	49	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
Carbazole	ND		210	42	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
Chrysene	ND		210	51	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
Dibenz(a,h)anthracene	ND		210	43	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
Dibenzofuran	ND		210	38	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
Diethyl phthalate	ND		210	38	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
Dimethyl phthalate	ND		210	41	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
Di-n-butyl phthalate	ND		210	48	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
Di-n-octyl phthalate	ND		210	41	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
Fluoranthene	57 J		210	39	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
Fluorene	ND		210	39	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
Hexachlorobenzene	ND		210	41	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
Hexachlorobutadiene	ND		210	32	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
Hexachlorocyclopentadiene	ND		420	93	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
Hexachloroethane	ND		210	39	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
Indeno[1,2,3-cd]pyrene	ND		210	32	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
Isophorone	ND		210	44	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
Naphthalene	110 J		210	35	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
Nitrobenzene	ND		210	36	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
N-Nitrosodi-n-propylamine	ND		210	48	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
N-Nitrosodiphenylamine	ND		210	36	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
Pentachlorophenol	ND		420	68	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
Phenanthrene	89 J		210	40	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
Phenol	ND		210	39	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1
Pyrene	49 J		210	40	ug/Kg	☼	05/29/25 13:56	05/30/25 16:42	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	15000	T J	ug/Kg	☼	1.93	N/A	05/29/25 13:56	05/30/25 16:42	1
3-Penten-2-one, 4-methyl-	13000	T J N	ug/Kg	☼	2.64	141-79-7	05/29/25 13:56	05/30/25 16:42	1
Unknown	5700	T J	ug/Kg	☼	3.35	N/A	05/29/25 13:56	05/30/25 16:42	1
Benzene, 1,2,3-trimethyl-	490	T J N	ug/Kg	☼	5.14	526-73-8	05/29/25 13:56	05/30/25 16:42	1
Heptadecane, 2,6-dimethyl-	410	T J N	ug/Kg	☼	10.37	54105-67-8	05/29/25 13:56	05/30/25 16:42	1
Unknown	500	T J	ug/Kg	☼	14.86	N/A	05/29/25 13:56	05/30/25 16:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	31		10 - 140	05/29/25 13:56	05/30/25 16:42	1
2-Fluorobiphenyl (Surr)	37		29 - 120	05/29/25 13:56	05/30/25 16:42	1
2-Fluorophenol (Surr)	35		18 - 120	05/29/25 13:56	05/30/25 16:42	1
Nitrobenzene-d5 (Surr)	27		22 - 120	05/29/25 13:56	05/30/25 16:42	1
Phenol-d5 (Surr)	30		23 - 120	05/29/25 13:56	05/30/25 16:42	1
p-Terphenyl-d14 (Surr)	17	S1-	28 - 124	05/29/25 13:56	05/30/25 16:42	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-4 Fill

Lab Sample ID: 480-229710-24

Date Collected: 05/27/25 09:45

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 78.9

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	8.1		4.1	0.80	ug/Kg	✱	05/29/25 06:53	05/30/25 14:57	1
4,4'-DDE	3.2	J	4.1	0.86	ug/Kg	✱	05/29/25 06:53	05/30/25 14:57	1
4,4'-DDT	2.6	J	4.1	0.96	ug/Kg	✱	05/29/25 06:53	05/30/25 14:57	1
beta-BHC	ND		4.1	0.74	ug/Kg	✱	05/29/25 06:53	05/30/25 14:57	1
cis-Chlordane	ND		4.1	2.0	ug/Kg	✱	05/29/25 06:53	05/30/25 14:57	1
alpha-BHC	ND		4.1	0.74	ug/Kg	✱	05/29/25 06:53	05/30/25 14:57	1
Aldrin	ND		4.1	1.0	ug/Kg	✱	05/29/25 06:53	05/30/25 14:57	1
delta-BHC	ND		4.1	0.76	ug/Kg	✱	05/29/25 06:53	05/30/25 14:57	1
Dieldrin	ND		4.1	0.98	ug/Kg	✱	05/29/25 06:53	05/30/25 14:57	1
Endosulfan I	ND		4.1	0.79	ug/Kg	✱	05/29/25 06:53	05/30/25 14:57	1
Endosulfan II	ND		4.1	0.74	ug/Kg	✱	05/29/25 06:53	05/30/25 14:57	1
Endosulfan sulfate	ND		4.1	0.76	ug/Kg	✱	05/29/25 06:53	05/30/25 14:57	1
Endrin	ND		4.1	0.81	ug/Kg	✱	05/29/25 06:53	05/30/25 14:57	1
Endrin aldehyde	ND		4.1	1.0	ug/Kg	✱	05/29/25 06:53	05/30/25 14:57	1
Endrin ketone	ND		4.1	1.0	ug/Kg	✱	05/29/25 06:53	05/30/25 14:57	1
gamma-BHC (Lindane)	ND		4.1	0.75	ug/Kg	✱	05/29/25 06:53	05/30/25 14:57	1
trans-Chlordane	2.5	J	4.1	1.3	ug/Kg	✱	05/29/25 06:53	05/30/25 14:57	1
Heptachlor	ND		4.1	0.89	ug/Kg	✱	05/29/25 06:53	05/30/25 14:57	1
Heptachlor epoxide	ND		4.1	1.1	ug/Kg	✱	05/29/25 06:53	05/30/25 14:57	1
Methoxychlor	ND		4.1	0.83	ug/Kg	✱	05/29/25 06:53	05/30/25 14:57	1
Toxaphene	ND		41	24	ug/Kg	✱	05/29/25 06:53	05/30/25 14:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	76		45 - 120	05/29/25 06:53	05/30/25 14:57	1
DCB Decachlorobiphenyl	97		45 - 120	05/29/25 06:53	05/30/25 14:57	1
Tetrachloro-m-xylene	56		30 - 124	05/29/25 06:53	05/30/25 14:57	1
Tetrachloro-m-xylene	56		30 - 124	05/29/25 06:53	05/30/25 14:57	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.30	0.059	mg/Kg	✱	05/30/25 13:30	06/02/25 11:51	1
PCB-1221	ND		0.30	0.059	mg/Kg	✱	05/30/25 13:30	06/02/25 11:51	1
PCB-1232	ND		0.30	0.059	mg/Kg	✱	05/30/25 13:30	06/02/25 11:51	1
PCB-1242	ND		0.30	0.059	mg/Kg	✱	05/30/25 13:30	06/02/25 11:51	1
PCB-1248	ND		0.30	0.059	mg/Kg	✱	05/30/25 13:30	06/02/25 11:51	1
PCB-1254	ND		0.30	0.14	mg/Kg	✱	05/30/25 13:30	06/02/25 11:51	1
PCB-1260	ND		0.30	0.14	mg/Kg	✱	05/30/25 13:30	06/02/25 11:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	106		60 - 154	05/30/25 13:30	06/02/25 11:51	1
Tetrachloro-m-xylene	94		60 - 154	05/30/25 13:30	06/02/25 11:51	1
DCB Decachlorobiphenyl	117		65 - 174	05/30/25 13:30	06/02/25 11:51	1
DCB Decachlorobiphenyl	112		65 - 174	05/30/25 13:30	06/02/25 11:51	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.39	0.13	ng/g	✱	06/02/25 07:37	06/03/25 21:39	1
Perfluoropentanoic acid (PFPeA)	ND		0.19	0.049	ng/g	✱	06/02/25 07:37	06/03/25 21:39	1
Perfluorohexanoic acid (PFHxA)	ND		0.19	0.058	ng/g	✱	06/02/25 07:37	06/03/25 21:39	1
Perfluoroheptanoic acid (PFHpA)	ND		0.19	0.068	ng/g	✱	06/02/25 07:37	06/03/25 21:39	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-4 Fill

Lab Sample ID: 480-229710-24

Date Collected: 05/27/25 09:45

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 78.9

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	ND		0.19	0.058	ng/g	✱	06/02/25 07:37	06/03/25 21:39	1
Perfluorononanoic acid (PFNA)	ND		0.19	0.058	ng/g	✱	06/02/25 07:37	06/03/25 21:39	1
Perfluorodecanoic acid (PFDA)	ND		0.19	0.049	ng/g	✱	06/02/25 07:37	06/03/25 21:39	1
Perfluoroundecanoic acid (PFUnA)	ND		0.19	0.049	ng/g	✱	06/02/25 07:37	06/03/25 21:39	1
Perfluorododecanoic acid (PFDoA)	ND		0.19	0.049	ng/g	✱	06/02/25 07:37	06/03/25 21:39	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.19	0.068	ng/g	✱	06/02/25 07:37	06/03/25 21:39	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.19	0.068	ng/g	✱	06/02/25 07:37	06/03/25 21:39	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.19	0.068	ng/g	✱	06/02/25 07:37	06/03/25 21:39	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.19	0.058	ng/g	✱	06/02/25 07:37	06/03/25 21:39	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.19	0.049	ng/g	✱	06/02/25 07:37	06/03/25 21:39	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.19	0.068	ng/g	✱	06/02/25 07:37	06/03/25 21:39	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.19	0.11	ng/g	✱	06/02/25 07:37	06/03/25 21:39	1
Perfluorononanesulfonic acid (PFNS)	ND		0.19	0.068	ng/g	✱	06/02/25 07:37	06/03/25 21:39	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.19	0.049	ng/g	✱	06/02/25 07:37	06/03/25 21:39	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.19	0.058	ng/g	✱	06/02/25 07:37	06/03/25 21:39	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.39	0.097	ng/g	✱	06/02/25 07:37	06/03/25 21:39	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.39	0.13	ng/g	✱	06/02/25 07:37	06/03/25 21:39	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.39	0.13	ng/g	✱	06/02/25 07:37	06/03/25 21:39	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.19	0.087	ng/g	✱	06/02/25 07:37	06/03/25 21:39	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.19	0.087	ng/g	✱	06/02/25 07:37	06/03/25 21:39	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.19	0.097	ng/g	✱	06/02/25 07:37	06/03/25 21:39	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.19	0.078	ng/g	✱	06/02/25 07:37	06/03/25 21:39	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.19	0.11	ng/g	✱	06/02/25 07:37	06/03/25 21:39	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		0.97	0.29	ng/g	✱	06/02/25 07:37	06/03/25 21:39	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		0.97	0.29	ng/g	✱	06/02/25 07:37	06/03/25 21:39	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.19	0.11	ng/g	✱	06/02/25 07:37	06/03/25 21:39	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.19	0.058	ng/g	✱	06/02/25 07:37	06/03/25 21:39	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.19	0.068	ng/g	✱	06/02/25 07:37	06/03/25 21:39	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.19	0.049	ng/g	✱	06/02/25 07:37	06/03/25 21:39	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.19	0.068	ng/g	✱	06/02/25 07:37	06/03/25 21:39	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.19	0.049	ng/g	✱	06/02/25 07:37	06/03/25 21:39	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.39	0.19	ng/g	✱	06/02/25 07:37	06/03/25 21:39	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		0.97	0.49	ng/g	✱	06/02/25 07:37	06/03/25 21:39	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		0.97	0.39	ng/g	✱	06/02/25 07:37	06/03/25 21:39	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-4 Fill

Lab Sample ID: 480-229710-24

Date Collected: 05/27/25 09:45

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 78.9

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	61.1		8 - 130	06/02/25 07:37	06/03/25 21:39	1
13C5-PFPeA	73.0		35 - 130	06/02/25 07:37	06/03/25 21:39	1
13C5-PFHxA	77.9		40 - 130	06/02/25 07:37	06/03/25 21:39	1
13C4-PFHpA	85.3		40 - 130	06/02/25 07:37	06/03/25 21:39	1
13C8-PFOA	81.5		40 - 130	06/02/25 07:37	06/03/25 21:39	1
13C9-PFNA	83.5		40 - 130	06/02/25 07:37	06/03/25 21:39	1
13C6-PFDA	88.7		40 - 130	06/02/25 07:37	06/03/25 21:39	1
13C7-PFUnA	93.2		40 - 130	06/02/25 07:37	06/03/25 21:39	1
13C2-PFTeDA	75.9		20 - 130	06/02/25 07:37	06/03/25 21:39	1
13C3-PFBS	73.1		40 - 135	06/02/25 07:37	06/03/25 21:39	1
13C3-PFHxS	80.1		40 - 130	06/02/25 07:37	06/03/25 21:39	1
13C8-PFOS	80.7		40 - 130	06/02/25 07:37	06/03/25 21:39	1
13C8-PFOSA	85.5		40 - 130	06/02/25 07:37	06/03/25 21:39	1
d3-NMeFOSAA	86.3		40 - 135	06/02/25 07:37	06/03/25 21:39	1
d5-NEtFOSAA	78.0		40 - 150	06/02/25 07:37	06/03/25 21:39	1
13C2 4:2 FTS	104		40 - 165	06/02/25 07:37	06/03/25 21:39	1
13C2 6:2 FTS	131		40 - 215	06/02/25 07:37	06/03/25 21:39	1
13C2 8:2 FTS	105		40 - 275	06/02/25 07:37	06/03/25 21:39	1
13C3-HFPO-DA	77.2		40 - 130	06/02/25 07:37	06/03/25 21:39	1
D7-NMeFOSE	61.2		20 - 130	06/02/25 07:37	06/03/25 21:39	1
D9-NEtFOSE	61.0		15 - 130	06/02/25 07:37	06/03/25 21:39	1
d5-NEtPFOSA	67.0		10 - 130	06/02/25 07:37	06/03/25 21:39	1
d3-NMePFOSA	71.2		10 - 130	06/02/25 07:37	06/03/25 21:39	1
13C2 PFDaA	94.3		40 - 130	06/02/25 07:37	06/03/25 21:39	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid (9Cl-PF3ONS)	ND		0.19	0.087	ng/g	☼	06/04/25 14:32	06/05/25 12:17	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.19	0.077	ng/g	☼	06/04/25 14:32	06/05/25 12:17	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3-HFPO-DA	47.8		40 - 130				06/04/25 14:32	06/05/25 12:17	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8490		12.7	10.9	mg/Kg	✱	05/29/25 15:23	05/30/25 22:27	1
Antimony	1.0	J	19.0	0.67	mg/Kg	✱	05/29/25 15:23	05/30/25 22:27	1
Arsenic	41.5		2.5	1.1	mg/Kg	✱	05/29/25 15:23	05/30/25 22:27	1
Barium	368		0.63	0.18	mg/Kg	✱	05/29/25 15:23	05/30/25 22:27	1
Beryllium	0.88	^5-	0.25	0.051	mg/Kg	✱	05/29/25 15:23	05/30/25 22:27	1
Cadmium	0.15	J	0.25	0.089	mg/Kg	✱	05/29/25 15:23	05/30/25 22:27	1
Calcium	6720	^5-	63.5	34.3	mg/Kg	✱	05/29/25 15:23	05/30/25 22:27	1
Chromium	13.7		0.63	0.46	mg/Kg	✱	05/29/25 15:23	05/30/25 22:27	1
Cobalt	4.2		0.63	0.13	mg/Kg	✱	05/29/25 15:23	05/30/25 22:27	1
Copper	19.2		1.3	0.72	mg/Kg	✱	05/29/25 15:23	05/30/25 22:27	1
Iron	51800	^2 ^+	12.7	10.8	mg/Kg	✱	05/29/25 15:23	05/30/25 22:27	1
Lead	23.6		1.3	0.58	mg/Kg	✱	05/29/25 15:23	05/30/25 22:27	1
Magnesium	1740		25.4	10.8	mg/Kg	✱	05/29/25 15:23	05/30/25 22:27	1
Manganese	66.0	^5-	1.3	0.36	mg/Kg	✱	05/29/25 15:23	05/30/25 22:27	1
Nickel	12.1	^5-	6.3	0.32	mg/Kg	✱	05/29/25 15:23	05/30/25 22:27	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-4 Fill

Lab Sample ID: 480-229710-24

Date Collected: 05/27/25 09:45

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 78.9

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	1100		38.1	30.8	mg/Kg	✱	05/29/25 15:23	05/30/25 22:27	1
Selenium	1.9	J	5.1	1.0	mg/Kg	✱	05/29/25 15:23	05/30/25 22:27	1
Silver	ND	^5-	0.76	0.25	mg/Kg	✱	05/29/25 15:23	06/04/25 19:34	1
Sodium	349		178	77.8	mg/Kg	✱	05/29/25 15:23	06/04/25 19:34	1
Thallium	ND		7.6	0.96	mg/Kg	✱	05/29/25 15:23	05/30/25 22:27	1
Vanadium	21.8		0.63	0.17	mg/Kg	✱	05/29/25 15:23	05/30/25 22:27	1
Zinc	17.0	^5-	2.5	1.3	mg/Kg	✱	05/29/25 15:23	05/30/25 22:27	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.082		0.024	0.0056	mg/Kg	✱	05/30/25 13:38	05/30/25 16:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND	F1	1.1	0.52	mg/Kg	✱	05/31/25 12:17	05/31/25 17:39	1

Client Sample ID: RI-BH-5 Fill

Lab Sample ID: 480-229710-25

Date Collected: 05/27/25 10:00

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 88.5

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.6	0.41	ug/Kg	✱	05/29/25 18:01	05/29/25 23:46	1
1,1,2,2-Tetrachloroethane	ND	*3 vs	5.6	0.91	ug/Kg	✱	05/29/25 18:01	05/29/25 23:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.6	1.3	ug/Kg	✱	05/29/25 18:01	05/29/25 23:46	1
1,1,2-Trichloroethane	ND	vs	5.6	0.73	ug/Kg	✱	05/29/25 18:01	05/29/25 23:46	1
1,1-Dichloroethane	ND	vs	5.6	0.69	ug/Kg	✱	05/29/25 18:01	05/29/25 23:46	1
1,1-Dichloroethene	ND	vs	5.6	0.69	ug/Kg	✱	05/29/25 18:01	05/29/25 23:46	1
1,2,4-Trichlorobenzene	ND	*3 vs	5.6	0.34	ug/Kg	✱	05/29/25 18:01	05/29/25 23:46	1
1,2-Dibromo-3-Chloropropane	ND	*3 vs	5.6	2.8	ug/Kg	✱	05/29/25 18:01	05/29/25 23:46	1
1,2-Dichlorobenzene	ND	*3 vs	5.6	0.44	ug/Kg	✱	05/29/25 18:01	05/29/25 23:46	1
1,2-Dichloroethane	ND	vs	5.6	0.28	ug/Kg	✱	05/29/25 18:01	05/29/25 23:46	1
1,2-Dichloropropane	ND	vs	5.6	2.8	ug/Kg	✱	05/29/25 18:01	05/29/25 23:46	1
1,3-Dichlorobenzene	ND	*3 vs	5.6	0.29	ug/Kg	✱	05/29/25 18:01	05/29/25 23:46	1
1,4-Dichlorobenzene	ND	*3 vs	5.6	0.79	ug/Kg	✱	05/29/25 18:01	05/29/25 23:46	1
2-Butanone (MEK)	45	vs	28	2.1	ug/Kg	✱	05/29/25 18:01	05/29/25 23:46	1
2-Hexanone	ND	vs	28	2.8	ug/Kg	✱	05/29/25 18:01	05/29/25 23:46	1
4-Methyl-2-pentanone (MIBK)	ND	vs	28	1.8	ug/Kg	✱	05/29/25 18:01	05/29/25 23:46	1
Acetone	260	vs	28	4.7	ug/Kg	✱	05/29/25 18:01	05/29/25 23:46	1
Benzene	ND	vs	5.6	0.28	ug/Kg	✱	05/29/25 18:01	05/29/25 23:46	1
Bromoform	ND	vs	5.6	2.8	ug/Kg	✱	05/29/25 18:01	05/29/25 23:46	1
Bromomethane	ND	vs	5.6	0.51	ug/Kg	✱	05/29/25 18:01	05/29/25 23:46	1
Carbon disulfide	8.8	vs	5.6	2.8	ug/Kg	✱	05/29/25 18:01	05/29/25 23:46	1
Carbon tetrachloride	ND	vs	5.6	0.54	ug/Kg	✱	05/29/25 18:01	05/29/25 23:46	1
Chlorobenzene	ND	vs	5.6	0.74	ug/Kg	✱	05/29/25 18:01	05/29/25 23:46	1
Dibromochloromethane	ND	vs	5.6	0.72	ug/Kg	✱	05/29/25 18:01	05/29/25 23:46	1
Chloroethane	ND	vs	5.6	1.3	ug/Kg	✱	05/29/25 18:01	05/29/25 23:46	1
Chloroform	0.45	J vs	5.6	0.35	ug/Kg	✱	05/29/25 18:01	05/29/25 23:46	1
Chloromethane	ND	vs	5.6	0.34	ug/Kg	✱	05/29/25 18:01	05/29/25 23:46	1
cis-1,2-Dichloroethene	ND	vs	5.6	0.72	ug/Kg	✱	05/29/25 18:01	05/29/25 23:46	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-5 Fill

Lab Sample ID: 480-229710-25

Date Collected: 05/27/25 10:00

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 88.5

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND	vs	5.6	0.79	ug/Kg	☼	05/29/25 18:01	05/29/25 23:46	1
Bromodichloromethane	ND	vs	5.6	0.75	ug/Kg	☼	05/29/25 18:01	05/29/25 23:46	1
Dichlorodifluoromethane	ND	vs	5.6	0.47	ug/Kg	☼	05/29/25 18:01	05/29/25 23:46	1
Ethylbenzene	ND	vs	5.6	0.39	ug/Kg	☼	05/29/25 18:01	05/29/25 23:46	1
1,2-Dibromoethane	ND	vs	5.6	0.72	ug/Kg	☼	05/29/25 18:01	05/29/25 23:46	1
Isopropylbenzene	ND	*3 vs	5.6	0.85	ug/Kg	☼	05/29/25 18:01	05/29/25 23:46	1
Methyl acetate	ND	vs	28	3.4	ug/Kg	☼	05/29/25 18:01	05/29/25 23:46	1
Methyl tert-butyl ether	ND	vs	5.6	0.55	ug/Kg	☼	05/29/25 18:01	05/29/25 23:46	1
Methylcyclohexane	ND	vs	5.6	0.86	ug/Kg	☼	05/29/25 18:01	05/29/25 23:46	1
Methylene Chloride	3.9	J vs	5.6	2.6	ug/Kg	☼	05/29/25 18:01	05/29/25 23:46	1
Tetrachloroethene	ND	vs	5.6	0.76	ug/Kg	☼	05/29/25 18:01	05/29/25 23:46	1
Toluene	ND	vs	5.6	0.43	ug/Kg	☼	05/29/25 18:01	05/29/25 23:46	1
trans-1,2-Dichloroethene	ND	vs	5.6	0.58	ug/Kg	☼	05/29/25 18:01	05/29/25 23:46	1
trans-1,3-Dichloropropene	ND	vs	5.6	2.5	ug/Kg	☼	05/29/25 18:01	05/29/25 23:46	1
Trichloroethene	ND	vs	5.6	1.2	ug/Kg	☼	05/29/25 18:01	05/29/25 23:46	1
Trichlorofluoromethane	ND	vs	5.6	0.53	ug/Kg	☼	05/29/25 18:01	05/29/25 23:46	1
Vinyl chloride	ND	vs	5.6	0.69	ug/Kg	☼	05/29/25 18:01	05/29/25 23:46	1
Xylenes, Total	ND	vs	11	0.95	ug/Kg	☼	05/29/25 18:01	05/29/25 23:46	1
cis-1,3-Dichloropropene	ND	vs	5.6	0.81	ug/Kg	☼	05/29/25 18:01	05/29/25 23:46	1
Styrene	ND	vs	5.6	0.28	ug/Kg	☼	05/29/25 18:01	05/29/25 23:46	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼		N/A	05/29/25 18:01	05/29/25 23:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		64 - 126	05/29/25 18:01	05/29/25 23:46	1
4-Bromofluorobenzene (Surr)	83		72 - 126	05/29/25 18:01	05/29/25 23:46	1
Toluene-d8 (Surr)	122		71 - 125	05/29/25 18:01	05/29/25 23:46	1
Dibromofluoromethane (Surr)	113		60 - 140	05/29/25 18:01	05/29/25 23:46	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		110	42	ug/Kg	☼	05/29/25 13:56	05/30/25 17:07	1
2,4,5-Trichlorophenol	ND		190	39	ug/Kg	☼	05/29/25 13:56	05/30/25 17:07	1
2,4,6-Trichlorophenol	ND		190	29	ug/Kg	☼	05/29/25 13:56	05/30/25 17:07	1
2,4-Dichlorophenol	ND		190	37	ug/Kg	☼	05/29/25 13:56	05/30/25 17:07	1
2,4-Dimethylphenol	ND		190	40	ug/Kg	☼	05/29/25 13:56	05/30/25 17:07	1
2,4-Dinitrophenol	ND		1900	36	ug/Kg	☼	05/29/25 13:56	05/30/25 17:07	1
2,4-Dinitrotoluene	ND		190	26	ug/Kg	☼	05/29/25 13:56	05/30/25 17:07	1
2,6-Dinitrotoluene	ND		190	27	ug/Kg	☼	05/29/25 13:56	05/30/25 17:07	1
2-Chloronaphthalene	ND		190	35	ug/Kg	☼	05/29/25 13:56	05/30/25 17:07	1
2-Chlorophenol	ND		190	30	ug/Kg	☼	05/29/25 13:56	05/30/25 17:07	1
2-Methylnaphthalene	ND		190	30	ug/Kg	☼	05/29/25 13:56	05/30/25 17:07	1
2-Methylphenol	ND		190	31	ug/Kg	☼	05/29/25 13:56	05/30/25 17:07	1
2-Nitroaniline	ND		370	32	ug/Kg	☼	05/29/25 13:56	05/30/25 17:07	1
2-Nitrophenol	ND		190	22	ug/Kg	☼	05/29/25 13:56	05/30/25 17:07	1
3,3'-Dichlorobenzidine	ND		370	56	ug/Kg	☼	05/29/25 13:56	05/30/25 17:07	1
3-Nitroaniline	ND		370	27	ug/Kg	☼	05/29/25 13:56	05/30/25 17:07	1
4,6-Dinitro-2-methylphenol	ND		370	42	ug/Kg	☼	05/29/25 13:56	05/30/25 17:07	1
4-Bromophenyl phenyl ether	ND		190	32	ug/Kg	☼	05/29/25 13:56	05/30/25 17:07	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-5 Fill

Lab Sample ID: 480-229710-25

Date Collected: 05/27/25 10:00

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 88.5

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloro-3-methylphenol	ND		190	39	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
4-Chloroaniline	ND		190	27	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
4-Chlorophenyl phenyl ether	ND		190	40	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
4-Methylphenol	ND		370	34	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
4-Nitroaniline	ND		370	28	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
4-Nitrophenol	ND		370	52	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
Acenaphthene	ND		190	35	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
Acenaphthylene	ND		190	37	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
Acetophenone	ND		190	34	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
Anthracene	ND		190	35	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
Atrazine	ND		190	64	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
Benzaldehyde	ND		190	150	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
Benzo[a]anthracene	80	J	190	26	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
Benzo[a]pyrene	120	J	190	32	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
Benzo[b]fluoranthene	190		190	26	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
Benzo[g,h,i]perylene	250		190	33	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
Benzo[k]fluoranthene	85	J	190	43	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
Biphenyl	ND		190	36	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
bis (2-chloroisopropyl) ether	ND		190	39	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
Bis(2-chloroethoxy)methane	ND		190	36	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
Bis(2-chloroethyl)ether	ND		190	36	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
Bis(2-ethylhexyl) phthalate	ND		190	41	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
Butyl benzyl phthalate	ND		190	35	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
Caprolactam	ND		190	44	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
Carbazole	ND		190	37	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
Chrysene	130	J	190	46	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
Dibenz(a,h)anthracene	39	J	190	38	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
Dibenzofuran	ND		190	34	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
Diethyl phthalate	ND		190	34	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
Dimethyl phthalate	ND		190	37	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
Di-n-butyl phthalate	ND		190	43	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
Di-n-octyl phthalate	ND		190	36	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
Fluoranthene	170	J	190	35	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
Fluorene	ND		190	35	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
Hexachlorobenzene	ND		190	37	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
Hexachlorobutadiene	ND		190	28	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
Hexachlorocyclopentadiene	ND		370	83	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
Hexachloroethane	ND		190	35	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
Indeno[1,2,3-cd]pyrene	140	J	190	28	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
Isophorone	ND		190	39	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
Naphthalene	ND		190	32	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
Nitrobenzene	ND		190	32	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
N-Nitrosodi-n-propylamine	ND		190	43	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
N-Nitrosodiphenylamine	ND		190	32	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
Pentachlorophenol	ND		370	61	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
Phenanthrene	65	J	190	36	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
Phenol	ND		190	35	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1
Pyrene	150	J	190	36	ug/Kg	✱	05/29/25 13:56	05/30/25 17:07	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-5 Fill

Lab Sample ID: 480-229710-25

Date Collected: 05/27/25 10:00

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 88.5

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	20000	T J	ug/Kg	☼	1.93	N/A	05/29/25 13:56	05/30/25 17:07	1
Unknown	1700	T J	ug/Kg	☼	3.34	N/A	05/29/25 13:56	05/30/25 17:07	1
Unknown	720	T J	ug/Kg	☼	9.54	N/A	05/29/25 13:56	05/30/25 17:07	1
1-Octadecanethiol	330	T J N	ug/Kg	☼	13.69	2885-00-9	05/29/25 13:56	05/30/25 17:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	64		10 - 140				05/29/25 13:56	05/30/25 17:07	1
2-Fluorobiphenyl (Surr)	54		29 - 120				05/29/25 13:56	05/30/25 17:07	1
2-Fluorophenol (Surr)	45		18 - 120				05/29/25 13:56	05/30/25 17:07	1
Nitrobenzene-d5 (Surr)	49		22 - 120				05/29/25 13:56	05/30/25 17:07	1
Phenol-d5 (Surr)	50		23 - 120				05/29/25 13:56	05/30/25 17:07	1
p-Terphenyl-d14 (Surr)	62		28 - 124				05/29/25 13:56	05/30/25 17:07	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	F2	3.7	0.72	ug/Kg	☼	05/29/25 06:53	05/30/25 14:37	1
4,4'-DDE	ND	F2	3.7	0.78	ug/Kg	☼	05/29/25 06:53	05/30/25 14:37	1
4,4'-DDT	1.8	J F2	3.7	0.87	ug/Kg	☼	05/29/25 06:53	05/30/25 14:37	1
beta-BHC	ND	F2	3.7	0.67	ug/Kg	☼	05/29/25 06:53	05/30/25 14:37	1
cis-Chlordane	ND	F2	3.7	1.9	ug/Kg	☼	05/29/25 06:53	05/30/25 14:37	1
alpha-BHC	0.75	J F1 F2	3.7	0.67	ug/Kg	☼	05/29/25 06:53	05/30/25 14:37	1
Aldrin	ND	F2	3.7	0.92	ug/Kg	☼	05/29/25 06:53	05/30/25 14:37	1
delta-BHC	0.77	J F2	3.7	0.69	ug/Kg	☼	05/29/25 06:53	05/30/25 14:37	1
Dieldrin	ND	F2	3.7	0.89	ug/Kg	☼	05/29/25 06:53	05/30/25 14:37	1
Endosulfan I	ND	F2	3.7	0.72	ug/Kg	☼	05/29/25 06:53	05/30/25 14:37	1
Endosulfan II	ND		3.7	0.67	ug/Kg	☼	05/29/25 06:53	05/30/25 14:37	1
Endosulfan sulfate	ND		3.7	0.70	ug/Kg	☼	05/29/25 06:53	05/30/25 14:37	1
Endrin	1.1	J F2	3.7	0.74	ug/Kg	☼	05/29/25 06:53	05/30/25 14:37	1
Endrin aldehyde	ND	F1	3.7	0.95	ug/Kg	☼	05/29/25 06:53	05/30/25 14:37	1
Endrin ketone	ND		3.7	0.92	ug/Kg	☼	05/29/25 06:53	05/30/25 14:37	1
gamma-BHC (Lindane)	ND	F1 F2	3.7	0.68	ug/Kg	☼	05/29/25 06:53	05/30/25 14:37	1
trans-Chlordane	ND	F2	3.7	1.2	ug/Kg	☼	05/29/25 06:53	05/30/25 14:37	1
Heptachlor	ND	F2	3.7	0.81	ug/Kg	☼	05/29/25 06:53	05/30/25 14:37	1
Heptachlor epoxide	ND	F2	3.7	0.96	ug/Kg	☼	05/29/25 06:53	05/30/25 14:37	1
Methoxychlor	ND	F2	3.7	0.76	ug/Kg	☼	05/29/25 06:53	05/30/25 14:37	1
Toxaphene	ND		37	22	ug/Kg	☼	05/29/25 06:53	05/30/25 14:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	70		45 - 120				05/29/25 06:53	05/30/25 14:37	1
DCB Decachlorobiphenyl	102		45 - 120				05/29/25 06:53	05/30/25 14:37	1
Tetrachloro-m-xylene	47		30 - 124				05/29/25 06:53	05/30/25 14:37	1
Tetrachloro-m-xylene	48		30 - 124				05/29/25 06:53	05/30/25 14:37	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.27	0.052	mg/Kg	☼	05/30/25 13:30	06/02/25 12:10	1
PCB-1221	ND		0.27	0.052	mg/Kg	☼	05/30/25 13:30	06/02/25 12:10	1
PCB-1232	ND		0.27	0.052	mg/Kg	☼	05/30/25 13:30	06/02/25 12:10	1
PCB-1242	ND		0.27	0.052	mg/Kg	☼	05/30/25 13:30	06/02/25 12:10	1
PCB-1248	ND		0.27	0.052	mg/Kg	☼	05/30/25 13:30	06/02/25 12:10	1
PCB-1254	ND		0.27	0.12	mg/Kg	☼	05/30/25 13:30	06/02/25 12:10	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-5 Fill

Lab Sample ID: 480-229710-25

Date Collected: 05/27/25 10:00

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 88.5

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	ND		0.27	0.12	mg/Kg	✱	05/30/25 13:30	06/02/25 12:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	124		60 - 154				05/30/25 13:30	06/02/25 12:10	1
Tetrachloro-m-xylene	109		60 - 154				05/30/25 13:30	06/02/25 12:10	1
DCB Decachlorobiphenyl	115		65 - 174				05/30/25 13:30	06/02/25 12:10	1
DCB Decachlorobiphenyl	115		65 - 174				05/30/25 13:30	06/02/25 12:10	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.39	0.13	ng/g	✱	06/04/25 14:32	06/05/25 12:30	1
Perfluoropentanoic acid (PFPeA)	ND		0.20	0.049	ng/g	✱	06/04/25 14:32	06/05/25 12:30	1
Perfluorohexanoic acid (PFHxA)	ND		0.20	0.059	ng/g	✱	06/04/25 14:32	06/05/25 12:30	1
Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.069	ng/g	✱	06/04/25 14:32	06/05/25 12:30	1
Perfluorooctanoic acid (PFOA)	ND		0.20	0.059	ng/g	✱	06/04/25 14:32	06/05/25 12:30	1
Perfluorononanoic acid (PFNA)	ND		0.20	0.059	ng/g	✱	06/04/25 14:32	06/05/25 12:30	1
Perfluorodecanoic acid (PFDA)	ND		0.20	0.049	ng/g	✱	06/04/25 14:32	06/05/25 12:30	1
Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.049	ng/g	✱	06/04/25 14:32	06/05/25 12:30	1
Perfluorododecanoic acid (PFDoA)	ND		0.20	0.049	ng/g	✱	06/04/25 14:32	06/05/25 12:30	1
Perfluorotridecanoic acid (PFTTrDA)	ND		0.20	0.069	ng/g	✱	06/04/25 14:32	06/05/25 12:30	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.20	0.069	ng/g	✱	06/04/25 14:32	06/05/25 12:30	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.069	ng/g	✱	06/04/25 14:32	06/05/25 12:30	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.20	0.059	ng/g	✱	06/04/25 14:32	06/05/25 12:30	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.049	ng/g	✱	06/04/25 14:32	06/05/25 12:30	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.069	ng/g	✱	06/04/25 14:32	06/05/25 12:30	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.20	0.11	ng/g	✱	06/04/25 14:32	06/05/25 12:30	1
Perfluorononanesulfonic acid (PFNS)	ND		0.20	0.069	ng/g	✱	06/04/25 14:32	06/05/25 12:30	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.049	ng/g	✱	06/04/25 14:32	06/05/25 12:30	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.059	ng/g	✱	06/04/25 14:32	06/05/25 12:30	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.39	0.098	ng/g	✱	06/04/25 14:32	06/05/25 12:30	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.39	0.13	ng/g	✱	06/04/25 14:32	06/05/25 12:30	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.39	0.13	ng/g	✱	06/04/25 14:32	06/05/25 12:30	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.088	ng/g	✱	06/04/25 14:32	06/05/25 12:30	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.20	0.088	ng/g	✱	06/04/25 14:32	06/05/25 12:30	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.20	0.098	ng/g	✱	06/04/25 14:32	06/05/25 12:30	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.20	0.078	ng/g	✱	06/04/25 14:32	06/05/25 12:30	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.20	0.11	ng/g	✱	06/04/25 14:32	06/05/25 12:30	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		0.98	0.29	ng/g	✱	06/04/25 14:32	06/05/25 12:30	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		0.98	0.29	ng/g	✱	06/04/25 14:32	06/05/25 12:30	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.20	0.11	ng/g	✱	06/04/25 14:32	06/05/25 12:30	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-5 Fill

Lab Sample ID: 480-229710-25

Date Collected: 05/27/25 10:00

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 88.5

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.20	0.059	ng/g	☼	06/04/25 14:32	06/05/25 12:30	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.20	0.069	ng/g	☼	06/04/25 14:32	06/05/25 12:30	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.20	0.049	ng/g	☼	06/04/25 14:32	06/05/25 12:30	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.20	0.069	ng/g	☼	06/04/25 14:32	06/05/25 12:30	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid (9Cl-PF3ONS)	ND		0.20	0.088	ng/g	☼	06/04/25 14:32	06/05/25 12:30	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.20	0.078	ng/g	☼	06/04/25 14:32	06/05/25 12:30	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.20	0.049	ng/g	☼	06/04/25 14:32	06/05/25 12:30	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.39	0.20	ng/g	☼	06/04/25 14:32	06/05/25 12:30	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		0.98	0.49	ng/g	☼	06/04/25 14:32	06/05/25 12:30	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		0.98	0.39	ng/g	☼	06/04/25 14:32	06/05/25 12:30	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	113		8 - 130	06/04/25 14:32	06/05/25 12:30	1
13C5-PFPeA	113		35 - 130	06/04/25 14:32	06/05/25 12:30	1
13C5-PFHxA	114		40 - 130	06/04/25 14:32	06/05/25 12:30	1
13C4-PFHpA	115		40 - 130	06/04/25 14:32	06/05/25 12:30	1
13C8-PFOA	95.9		40 - 130	06/04/25 14:32	06/05/25 12:30	1
13C9-PFNA	87.2		40 - 130	06/04/25 14:32	06/05/25 12:30	1
13C6-PFDA	88.8		40 - 130	06/04/25 14:32	06/05/25 12:30	1
13C7-PFUnA	83.5		40 - 130	06/04/25 14:32	06/05/25 12:30	1
13C2-PFTeDA	64.5		20 - 130	06/04/25 14:32	06/05/25 12:30	1
13C3-PFBS	100		40 - 135	06/04/25 14:32	06/05/25 12:30	1
13C3-PFHxS	90.7		40 - 130	06/04/25 14:32	06/05/25 12:30	1
13C8-PFOS	79.9		40 - 130	06/04/25 14:32	06/05/25 12:30	1
13C8-PFOSA	82.2		40 - 130	06/04/25 14:32	06/05/25 12:30	1
d3-NMeFOSAA	93.9		40 - 135	06/04/25 14:32	06/05/25 12:30	1
d5-NEtFOSAA	96.1		40 - 150	06/04/25 14:32	06/05/25 12:30	1
13C2 4:2 FTS	104		40 - 165	06/04/25 14:32	06/05/25 12:30	1
13C2 6:2 FTS	100		40 - 215	06/04/25 14:32	06/05/25 12:30	1
13C2 8:2 FTS	102		40 - 275	06/04/25 14:32	06/05/25 12:30	1
13C3-HFPO-DA	98.8		40 - 130	06/04/25 14:32	06/05/25 12:30	1
D7-NMeFOSE	60.3		20 - 130	06/04/25 14:32	06/05/25 12:30	1
D9-NEtFOSE	54.5		15 - 130	06/04/25 14:32	06/05/25 12:30	1
d5-NEtPFOSA	69.6		10 - 130	06/04/25 14:32	06/05/25 12:30	1
d3-NMePFOSA	75.3		10 - 130	06/04/25 14:32	06/05/25 12:30	1
13C2 PFDoA	72.1		40 - 130	06/04/25 14:32	06/05/25 12:30	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	14300		11.3	9.8	mg/Kg	☼	05/29/25 15:23	05/30/25 22:35	1
Antimony	ND		17.0	0.60	mg/Kg	☼	05/29/25 15:23	05/30/25 22:35	1
Arsenic	11.9		2.3	1.0	mg/Kg	☼	05/29/25 15:23	05/30/25 22:35	1
Barium	115		0.57	0.16	mg/Kg	☼	05/29/25 15:23	05/30/25 22:35	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-5 Fill

Lab Sample ID: 480-229710-25

Date Collected: 05/27/25 10:00

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 88.5

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	1.5	^5-	0.23	0.045	mg/Kg	✱	05/29/25 15:23	05/30/25 22:35	1
Cadmium	0.24		0.23	0.079	mg/Kg	✱	05/29/25 15:23	05/30/25 22:35	1
Calcium	26100		56.7	30.6	mg/Kg	✱	05/29/25 15:23	06/04/25 19:43	1
Chromium	14.0		0.57	0.41	mg/Kg	✱	05/29/25 15:23	05/30/25 22:35	1
Cobalt	9.4		0.57	0.11	mg/Kg	✱	05/29/25 15:23	05/30/25 22:35	1
Copper	42.8		1.1	0.65	mg/Kg	✱	05/29/25 15:23	05/30/25 22:35	1
Iron	25400	^2 ^+	11.3	9.6	mg/Kg	✱	05/29/25 15:23	05/30/25 22:35	1
Lead	40.3		1.1	0.52	mg/Kg	✱	05/29/25 15:23	05/30/25 22:35	1
Magnesium	9010		22.7	9.6	mg/Kg	✱	05/29/25 15:23	05/30/25 22:35	1
Manganese	405		1.1	0.32	mg/Kg	✱	05/29/25 15:23	06/04/25 19:43	1
Nickel	20.8	^5-	5.7	0.28	mg/Kg	✱	05/29/25 15:23	05/30/25 22:35	1
Potassium	2240		34.0	27.5	mg/Kg	✱	05/29/25 15:23	05/30/25 22:35	1
Selenium	1.2	J	4.5	0.91	mg/Kg	✱	05/29/25 15:23	05/30/25 22:35	1
Silver	ND	^5-	0.68	0.23	mg/Kg	✱	05/29/25 15:23	06/04/25 19:43	1
Sodium	259		159	69.5	mg/Kg	✱	05/29/25 15:23	06/04/25 19:43	1
Thallium	ND		6.8	0.86	mg/Kg	✱	05/29/25 15:23	05/30/25 22:35	1
Vanadium	17.9		0.57	0.15	mg/Kg	✱	05/29/25 15:23	05/30/25 22:35	1
Zinc	107	^5-	2.3	1.2	mg/Kg	✱	05/29/25 15:23	05/30/25 22:35	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.047		0.022	0.0051	mg/Kg	✱	05/30/25 13:38	05/30/25 16:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	1.0		1.0	0.49	mg/Kg	✱	05/31/25 13:30	05/31/25 17:43	1

Client Sample ID: RI-BH-5 Native

Lab Sample ID: 480-229710-26

Date Collected: 05/27/25 10:10

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 80.3

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	6.0	0.44	ug/Kg	✱	05/28/25 19:24	05/29/25 02:18	1
1,1,2,2-Tetrachloroethane	ND	vs	6.0	0.98	ug/Kg	✱	05/28/25 19:24	05/29/25 02:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.0	1.4	ug/Kg	✱	05/28/25 19:24	05/29/25 02:18	1
1,1,2-Trichloroethane	ND	vs	6.0	0.78	ug/Kg	✱	05/28/25 19:24	05/29/25 02:18	1
1,1-Dichloroethane	ND	vs	6.0	0.74	ug/Kg	✱	05/28/25 19:24	05/29/25 02:18	1
1,1-Dichloroethene	ND	vs	6.0	0.74	ug/Kg	✱	05/28/25 19:24	05/29/25 02:18	1
1,2,4-Trichlorobenzene	ND	vs	6.0	0.37	ug/Kg	✱	05/28/25 19:24	05/29/25 02:18	1
1,2-Dibromo-3-Chloropropane	ND	vs	6.0	3.0	ug/Kg	✱	05/28/25 19:24	05/29/25 02:18	1
1,2-Dichlorobenzene	ND	vs	6.0	0.47	ug/Kg	✱	05/28/25 19:24	05/29/25 02:18	1
1,2-Dichloroethane	ND	vs	6.0	0.30	ug/Kg	✱	05/28/25 19:24	05/29/25 02:18	1
1,2-Dichloropropane	ND	vs	6.0	3.0	ug/Kg	✱	05/28/25 19:24	05/29/25 02:18	1
1,3-Dichlorobenzene	ND	vs	6.0	0.31	ug/Kg	✱	05/28/25 19:24	05/29/25 02:18	1
1,4-Dichlorobenzene	ND	vs	6.0	0.84	ug/Kg	✱	05/28/25 19:24	05/29/25 02:18	1
2-Butanone (MEK)	ND	vs	30	2.2	ug/Kg	✱	05/28/25 19:24	05/29/25 02:18	1
2-Hexanone	ND	vs	30	3.0	ug/Kg	✱	05/28/25 19:24	05/29/25 02:18	1
4-Methyl-2-pentanone (MIBK)	ND	vs	30	2.0	ug/Kg	✱	05/28/25 19:24	05/29/25 02:18	1
Acetone	16	J vs	30	5.1	ug/Kg	✱	05/28/25 19:24	05/29/25 02:18	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-5 Native

Lab Sample ID: 480-229710-26

Date Collected: 05/27/25 10:10

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 80.3

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	vs	6.0	0.30	ug/Kg	☼	05/28/25 19:24	05/29/25 02:18	1
Bromoform	ND	vs	6.0	3.0	ug/Kg	☼	05/28/25 19:24	05/29/25 02:18	1
Bromomethane	ND	vs	6.0	0.54	ug/Kg	☼	05/28/25 19:24	05/29/25 02:18	1
Carbon disulfide	ND	vs	6.0	3.0	ug/Kg	☼	05/28/25 19:24	05/29/25 02:18	1
Carbon tetrachloride	ND	vs	6.0	0.58	ug/Kg	☼	05/28/25 19:24	05/29/25 02:18	1
Chlorobenzene	ND	vs	6.0	0.80	ug/Kg	☼	05/28/25 19:24	05/29/25 02:18	1
Dibromochloromethane	ND	vs	6.0	0.77	ug/Kg	☼	05/28/25 19:24	05/29/25 02:18	1
Chloroethane	ND	vs	6.0	1.4	ug/Kg	☼	05/28/25 19:24	05/29/25 02:18	1
Chloroform	0.46	J vs	6.0	0.37	ug/Kg	☼	05/28/25 19:24	05/29/25 02:18	1
Chloromethane	ND	vs	6.0	0.36	ug/Kg	☼	05/28/25 19:24	05/29/25 02:18	1
cis-1,2-Dichloroethene	ND	vs	6.0	0.77	ug/Kg	☼	05/28/25 19:24	05/29/25 02:18	1
Cyclohexane	ND	vs	6.0	0.84	ug/Kg	☼	05/28/25 19:24	05/29/25 02:18	1
Bromodichloromethane	ND	vs	6.0	0.81	ug/Kg	☼	05/28/25 19:24	05/29/25 02:18	1
Dichlorodifluoromethane	ND	vs	6.0	0.50	ug/Kg	☼	05/28/25 19:24	05/29/25 02:18	1
Ethylbenzene	ND	vs	6.0	0.42	ug/Kg	☼	05/28/25 19:24	05/29/25 02:18	1
1,2-Dibromoethane	ND	vs	6.0	0.77	ug/Kg	☼	05/28/25 19:24	05/29/25 02:18	1
Isopropylbenzene	ND	vs	6.0	0.91	ug/Kg	☼	05/28/25 19:24	05/29/25 02:18	1
Methyl acetate	ND	vs	30	3.6	ug/Kg	☼	05/28/25 19:24	05/29/25 02:18	1
Methyl tert-butyl ether	ND	vs	6.0	0.59	ug/Kg	☼	05/28/25 19:24	05/29/25 02:18	1
Methylcyclohexane	ND	vs	6.0	0.92	ug/Kg	☼	05/28/25 19:24	05/29/25 02:18	1
Methylene Chloride	8.3	B vs	6.0	2.8	ug/Kg	☼	05/28/25 19:24	05/29/25 02:18	1
Tetrachloroethene	ND	vs	6.0	0.81	ug/Kg	☼	05/28/25 19:24	05/29/25 02:18	1
Toluene	ND	vs	6.0	0.46	ug/Kg	☼	05/28/25 19:24	05/29/25 02:18	1
trans-1,2-Dichloroethene	ND	vs	6.0	0.62	ug/Kg	☼	05/28/25 19:24	05/29/25 02:18	1
trans-1,3-Dichloropropene	ND	vs	6.0	2.7	ug/Kg	☼	05/28/25 19:24	05/29/25 02:18	1
Trichloroethene	ND	vs	6.0	1.3	ug/Kg	☼	05/28/25 19:24	05/29/25 02:18	1
Trichlorofluoromethane	ND	vs	6.0	0.57	ug/Kg	☼	05/28/25 19:24	05/29/25 02:18	1
Vinyl chloride	ND	vs	6.0	0.74	ug/Kg	☼	05/28/25 19:24	05/29/25 02:18	1
Xylenes, Total	ND	vs	12	1.0	ug/Kg	☼	05/28/25 19:24	05/29/25 02:18	1
cis-1,3-Dichloropropene	ND	vs	6.0	0.87	ug/Kg	☼	05/28/25 19:24	05/29/25 02:18	1
Styrene	ND	vs	6.0	0.30	ug/Kg	☼	05/28/25 19:24	05/29/25 02:18	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼		N/A	05/28/25 19:24	05/29/25 02:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		64 - 126	05/28/25 19:24	05/29/25 02:18	1
4-Bromofluorobenzene (Surr)	95		72 - 126	05/28/25 19:24	05/29/25 02:18	1
Toluene-d8 (Surr)	108		71 - 125	05/28/25 19:24	05/29/25 02:18	1
Dibromofluoromethane (Surr)	109		60 - 140	05/28/25 19:24	05/29/25 02:18	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		120	46	ug/Kg	☼	05/29/25 13:56	05/30/25 17:31	1
2,4,5-Trichlorophenol	ND		210	42	ug/Kg	☼	05/29/25 13:56	05/30/25 17:31	1
2,4,6-Trichlorophenol	ND		210	32	ug/Kg	☼	05/29/25 13:56	05/30/25 17:31	1
2,4-Dichlorophenol	ND		210	41	ug/Kg	☼	05/29/25 13:56	05/30/25 17:31	1
2,4-Dimethylphenol	ND		210	44	ug/Kg	☼	05/29/25 13:56	05/30/25 17:31	1
2,4-Dinitrophenol	ND		2000	40	ug/Kg	☼	05/29/25 13:56	05/30/25 17:31	1
2,4-Dinitrotoluene	ND		210	28	ug/Kg	☼	05/29/25 13:56	05/30/25 17:31	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-5 Native

Lab Sample ID: 480-229710-26

Date Collected: 05/27/25 10:10

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 80.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,6-Dinitrotoluene	ND		210	30	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
2-Chloronaphthalene	ND		210	39	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
2-Chlorophenol	ND		210	33	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
2-Methylnaphthalene	ND		210	33	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
2-Methylphenol	ND		210	34	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
2-Nitroaniline	ND		410	35	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
2-Nitrophenol	ND		210	24	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
3,3'-Dichlorobenzidine	ND		410	61	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
3-Nitroaniline	ND		410	29	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
4,6-Dinitro-2-methylphenol	ND		410	46	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
4-Bromophenyl phenyl ether	ND		210	35	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
4-Chloro-3-methylphenol	ND		210	43	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
4-Chloroaniline	ND		210	30	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
4-Chlorophenyl phenyl ether	ND		210	44	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
4-Methylphenol	ND		410	37	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
4-Nitroaniline	ND		410	31	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
4-Nitrophenol	ND		410	57	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
Acenaphthene	ND		210	39	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
Acenaphthylene	ND		210	40	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
Acetophenone	ND		210	37	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
Anthracene	ND		210	38	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
Atrazine	ND		210	71	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
Benzaldehyde	ND		210	160	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
Benzo[a]anthracene	ND		210	29	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
Benzo[a]pyrene	ND		210	36	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
Benzo[b]fluoranthene	ND		210	28	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
Benzo[g,h,i]perylene	ND		210	36	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
Benzo[k]fluoranthene	ND		210	47	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
Biphenyl	ND		210	39	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
bis (2-chloroisopropyl) ether	ND		210	43	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
Bis(2-chloroethoxy)methane	ND		210	40	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
Bis(2-chloroethyl)ether	ND		210	39	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
Bis(2-ethylhexyl) phthalate	ND		210	45	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
Butyl benzyl phthalate	ND		210	38	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
Caprolactam	ND		210	48	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
Carbazole	ND		210	41	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
Chrysene	ND		210	50	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
Dibenz(a,h)anthracene	ND		210	42	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
Dibenzofuran	ND		210	37	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
Diethyl phthalate	ND		210	37	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
Dimethyl phthalate	ND		210	40	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
Di-n-butyl phthalate	ND		210	47	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
Di-n-octyl phthalate	ND		210	40	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
Fluoranthene	ND		210	38	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
Fluorene	ND		210	38	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
Hexachlorobenzene	ND		210	40	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
Hexachlorobutadiene	ND		210	31	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
Hexachlorocyclopentadiene	ND		410	91	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1
Hexachloroethane	ND		210	38	ug/Kg	✱	05/29/25 13:56	05/30/25 17:31	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-5 Native

Lab Sample ID: 480-229710-26

Date Collected: 05/27/25 10:10

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 80.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND		210	31	ug/Kg	☼	05/29/25 13:56	05/30/25 17:31	1
Isophorone	ND		210	43	ug/Kg	☼	05/29/25 13:56	05/30/25 17:31	1
Naphthalene	ND		210	35	ug/Kg	☼	05/29/25 13:56	05/30/25 17:31	1
Nitrobenzene	ND		210	35	ug/Kg	☼	05/29/25 13:56	05/30/25 17:31	1
N-Nitrosodi-n-propylamine	ND		210	47	ug/Kg	☼	05/29/25 13:56	05/30/25 17:31	1
N-Nitrosodiphenylamine	ND		210	35	ug/Kg	☼	05/29/25 13:56	05/30/25 17:31	1
Pentachlorophenol	ND		410	66	ug/Kg	☼	05/29/25 13:56	05/30/25 17:31	1
Phenanthrene	ND		210	39	ug/Kg	☼	05/29/25 13:56	05/30/25 17:31	1
Phenol	ND		210	38	ug/Kg	☼	05/29/25 13:56	05/30/25 17:31	1
Pyrene	ND		210	40	ug/Kg	☼	05/29/25 13:56	05/30/25 17:31	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	5500	T J	ug/Kg	☼	1.93	N/A	05/29/25 13:56	05/30/25 17:31	1
Unknown	3900	T J	ug/Kg	☼	3.35	N/A	05/29/25 13:56	05/30/25 17:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	81		10 - 140	05/29/25 13:56	05/30/25 17:31	1
2-Fluorobiphenyl (Surr)	71		29 - 120	05/29/25 13:56	05/30/25 17:31	1
2-Fluorophenol (Surr)	60		18 - 120	05/29/25 13:56	05/30/25 17:31	1
Nitrobenzene-d5 (Surr)	66		22 - 120	05/29/25 13:56	05/30/25 17:31	1
Phenol-d5 (Surr)	62		23 - 120	05/29/25 13:56	05/30/25 17:31	1
p-Terphenyl-d14 (Surr)	78		28 - 124	05/29/25 13:56	05/30/25 17:31	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.0	0.78	ug/Kg	☼	05/29/25 06:53	05/30/25 15:17	1
4,4'-DDE	ND		4.0	0.84	ug/Kg	☼	05/29/25 06:53	05/30/25 15:17	1
4,4'-DDT	ND		4.0	0.94	ug/Kg	☼	05/29/25 06:53	05/30/25 15:17	1
beta-BHC	ND		4.0	0.72	ug/Kg	☼	05/29/25 06:53	05/30/25 15:17	1
cis-Chlordane	ND		4.0	2.0	ug/Kg	☼	05/29/25 06:53	05/30/25 15:17	1
alpha-BHC	ND		4.0	0.72	ug/Kg	☼	05/29/25 06:53	05/30/25 15:17	1
Aldrin	ND		4.0	0.99	ug/Kg	☼	05/29/25 06:53	05/30/25 15:17	1
delta-BHC	ND		4.0	0.74	ug/Kg	☼	05/29/25 06:53	05/30/25 15:17	1
Dieldrin	ND		4.0	0.96	ug/Kg	☼	05/29/25 06:53	05/30/25 15:17	1
Endosulfan I	ND		4.0	0.77	ug/Kg	☼	05/29/25 06:53	05/30/25 15:17	1
Endosulfan II	ND		4.0	0.72	ug/Kg	☼	05/29/25 06:53	05/30/25 15:17	1
Endosulfan sulfate	ND		4.0	0.75	ug/Kg	☼	05/29/25 06:53	05/30/25 15:17	1
Endrin	ND		4.0	0.79	ug/Kg	☼	05/29/25 06:53	05/30/25 15:17	1
Endrin aldehyde	ND		4.0	1.0	ug/Kg	☼	05/29/25 06:53	05/30/25 15:17	1
Endrin ketone	ND		4.0	0.99	ug/Kg	☼	05/29/25 06:53	05/30/25 15:17	1
gamma-BHC (Lindane)	ND		4.0	0.74	ug/Kg	☼	05/29/25 06:53	05/30/25 15:17	1
trans-Chlordane	ND		4.0	1.3	ug/Kg	☼	05/29/25 06:53	05/30/25 15:17	1
Heptachlor	ND		4.0	0.87	ug/Kg	☼	05/29/25 06:53	05/30/25 15:17	1
Heptachlor epoxide	ND		4.0	1.0	ug/Kg	☼	05/29/25 06:53	05/30/25 15:17	1
Methoxychlor	ND		4.0	0.82	ug/Kg	☼	05/29/25 06:53	05/30/25 15:17	1
Toxaphene	ND		40	23	ug/Kg	☼	05/29/25 06:53	05/30/25 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	79		45 - 120	05/29/25 06:53	05/30/25 15:17	1
DCB Decachlorobiphenyl	110		45 - 120	05/29/25 06:53	05/30/25 15:17	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-5 Native

Lab Sample ID: 480-229710-26

Date Collected: 05/27/25 10:10

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 80.3

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	52		30 - 124	05/29/25 06:53	05/30/25 15:17	1
Tetrachloro-m-xylene	54		30 - 124	05/29/25 06:53	05/30/25 15:17	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.30	0.058	mg/Kg	✱	05/30/25 13:30	06/02/25 12:28	1
PCB-1221	ND		0.30	0.058	mg/Kg	✱	05/30/25 13:30	06/02/25 12:28	1
PCB-1232	ND		0.30	0.058	mg/Kg	✱	05/30/25 13:30	06/02/25 12:28	1
PCB-1242	ND		0.30	0.058	mg/Kg	✱	05/30/25 13:30	06/02/25 12:28	1
PCB-1248	ND		0.30	0.058	mg/Kg	✱	05/30/25 13:30	06/02/25 12:28	1
PCB-1254	ND		0.30	0.14	mg/Kg	✱	05/30/25 13:30	06/02/25 12:28	1
PCB-1260	ND		0.30	0.14	mg/Kg	✱	05/30/25 13:30	06/02/25 12:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	147		60 - 154	05/30/25 13:30	06/02/25 12:28	1
Tetrachloro-m-xylene	131		60 - 154	05/30/25 13:30	06/02/25 12:28	1
DCB Decachlorobiphenyl	146		65 - 174	05/30/25 13:30	06/02/25 12:28	1
DCB Decachlorobiphenyl	141		65 - 174	05/30/25 13:30	06/02/25 12:28	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.40	0.13	ng/g	✱	06/02/25 07:37	06/03/25 22:06	1
Perfluoropentanoic acid (PFPeA)	ND		0.20	0.050	ng/g	✱	06/02/25 07:37	06/03/25 22:06	1
Perfluorohexanoic acid (PFHxA)	ND		0.20	0.060	ng/g	✱	06/02/25 07:37	06/03/25 22:06	1
Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.069	ng/g	✱	06/02/25 07:37	06/03/25 22:06	1
Perfluorooctanoic acid (PFOA)	ND		0.20	0.060	ng/g	✱	06/02/25 07:37	06/03/25 22:06	1
Perfluorononanoic acid (PFNA)	ND		0.20	0.060	ng/g	✱	06/02/25 07:37	06/03/25 22:06	1
Perfluorodecanoic acid (PFDA)	ND		0.20	0.050	ng/g	✱	06/02/25 07:37	06/03/25 22:06	1
Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.050	ng/g	✱	06/02/25 07:37	06/03/25 22:06	1
Perfluorododecanoic acid (PFDoA)	ND		0.20	0.050	ng/g	✱	06/02/25 07:37	06/03/25 22:06	1
Perfluorotridecanoic acid (PFTriDA)	ND		0.20	0.069	ng/g	✱	06/02/25 07:37	06/03/25 22:06	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.20	0.069	ng/g	✱	06/02/25 07:37	06/03/25 22:06	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.069	ng/g	✱	06/02/25 07:37	06/03/25 22:06	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.20	0.060	ng/g	✱	06/02/25 07:37	06/03/25 22:06	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.050	ng/g	✱	06/02/25 07:37	06/03/25 22:06	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.069	ng/g	✱	06/02/25 07:37	06/03/25 22:06	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.20	0.11	ng/g	✱	06/02/25 07:37	06/03/25 22:06	1
Perfluorononanesulfonic acid (PFNS)	ND		0.20	0.069	ng/g	✱	06/02/25 07:37	06/03/25 22:06	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.050	ng/g	✱	06/02/25 07:37	06/03/25 22:06	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.060	ng/g	✱	06/02/25 07:37	06/03/25 22:06	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.40	0.099	ng/g	✱	06/02/25 07:37	06/03/25 22:06	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.40	0.13	ng/g	✱	06/02/25 07:37	06/03/25 22:06	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.40	0.13	ng/g	✱	06/02/25 07:37	06/03/25 22:06	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.089	ng/g	✱	06/02/25 07:37	06/03/25 22:06	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-5 Native

Lab Sample ID: 480-229710-26

Date Collected: 05/27/25 10:10

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 80.3

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.20	0.089	ng/g	☼	06/02/25 07:37	06/03/25 22:06	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.20	0.099	ng/g	☼	06/02/25 07:37	06/03/25 22:06	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.20	0.079	ng/g	☼	06/02/25 07:37	06/03/25 22:06	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.20	0.11	ng/g	☼	06/02/25 07:37	06/03/25 22:06	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		0.99	0.30	ng/g	☼	06/02/25 07:37	06/03/25 22:06	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		0.99	0.30	ng/g	☼	06/02/25 07:37	06/03/25 22:06	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.20	0.11	ng/g	☼	06/02/25 07:37	06/03/25 22:06	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.20	0.060	ng/g	☼	06/02/25 07:37	06/03/25 22:06	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.20	0.069	ng/g	☼	06/02/25 07:37	06/03/25 22:06	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.20	0.050	ng/g	☼	06/02/25 07:37	06/03/25 22:06	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.20	0.069	ng/g	☼	06/02/25 07:37	06/03/25 22:06	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.20	0.050	ng/g	☼	06/02/25 07:37	06/03/25 22:06	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.40	0.20	ng/g	☼	06/02/25 07:37	06/03/25 22:06	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		0.99	0.50	ng/g	☼	06/02/25 07:37	06/03/25 22:06	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		0.99	0.40	ng/g	☼	06/02/25 07:37	06/03/25 22:06	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	85.8		8 - 130	06/02/25 07:37	06/03/25 22:06	1
13C5-PFPeA	91.8		35 - 130	06/02/25 07:37	06/03/25 22:06	1
13C5-PFHxA	87.6		40 - 130	06/02/25 07:37	06/03/25 22:06	1
13C4-PFHpA	92.2		40 - 130	06/02/25 07:37	06/03/25 22:06	1
13C8-PFOA	86.2		40 - 130	06/02/25 07:37	06/03/25 22:06	1
13C9-PFNA	84.2		40 - 130	06/02/25 07:37	06/03/25 22:06	1
13C6-PFDA	78.4		40 - 130	06/02/25 07:37	06/03/25 22:06	1
13C7-PFUnA	83.2		40 - 130	06/02/25 07:37	06/03/25 22:06	1
13C2-PFTeDA	64.0		20 - 130	06/02/25 07:37	06/03/25 22:06	1
13C3-PFBS	75.9		40 - 135	06/02/25 07:37	06/03/25 22:06	1
13C3-PFHxS	74.4		40 - 130	06/02/25 07:37	06/03/25 22:06	1
13C8-PFOS	67.5		40 - 130	06/02/25 07:37	06/03/25 22:06	1
13C8-PFOSA	75.5		40 - 130	06/02/25 07:37	06/03/25 22:06	1
d3-NMeFOSAA	73.9		40 - 135	06/02/25 07:37	06/03/25 22:06	1
d5-NEtFOSAA	59.6		40 - 150	06/02/25 07:37	06/03/25 22:06	1
13C2 4:2 FTS	78.5		40 - 165	06/02/25 07:37	06/03/25 22:06	1
13C2 6:2 FTS	92.4		40 - 215	06/02/25 07:37	06/03/25 22:06	1
13C2 8:2 FTS	68.2		40 - 275	06/02/25 07:37	06/03/25 22:06	1
13C3-HFPO-DA	86.3		40 - 130	06/02/25 07:37	06/03/25 22:06	1
D7-NMeFOSE	46.1		20 - 130	06/02/25 07:37	06/03/25 22:06	1
D9-NEtFOSE	43.4		15 - 130	06/02/25 07:37	06/03/25 22:06	1
d5-NEtPFOSA	53.1		10 - 130	06/02/25 07:37	06/03/25 22:06	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-5 Native

Lab Sample ID: 480-229710-26

Date Collected: 05/27/25 10:10

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 80.3

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMePFOSA	56.8		10 - 130	06/02/25 07:37	06/03/25 22:06	1
13C2 PFDoA	74.7		40 - 130	06/02/25 07:37	06/03/25 22:06	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid (9Cl-PF3ONS)	ND		0.20	0.089	ng/g	☼	06/04/25 14:32	06/05/25 12:44	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.20	0.079	ng/g	☼	06/04/25 14:32	06/05/25 12:44	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3-HFPO-DA	75.0		40 - 130				06/04/25 14:32	06/05/25 12:44	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12000		12.6	10.8	mg/Kg	✱	05/29/25 15:23	05/30/25 22:37	1
Antimony	ND		18.9	0.67	mg/Kg	✱	05/29/25 15:23	05/30/25 22:37	1
Arsenic	9.3		2.5	1.1	mg/Kg	✱	05/29/25 15:23	05/30/25 22:37	1
Barium	76.6		0.63	0.18	mg/Kg	✱	05/29/25 15:23	05/30/25 22:37	1
Beryllium	0.76	^5-	0.25	0.050	mg/Kg	✱	05/29/25 15:23	05/30/25 22:37	1
Cadmium	0.36		0.25	0.088	mg/Kg	✱	05/29/25 15:23	05/30/25 22:37	1
Calcium	2270	^5-	62.9	34.0	mg/Kg	✱	05/29/25 15:23	05/30/25 22:37	1
Chromium	16.1		0.63	0.45	mg/Kg	✱	05/29/25 15:23	05/30/25 22:37	1
Cobalt	10.1		0.63	0.13	mg/Kg	✱	05/29/25 15:23	05/30/25 22:37	1
Copper	21.6		1.3	0.72	mg/Kg	✱	05/29/25 15:23	05/30/25 22:37	1
Iron	24900	^2 ^+	12.6	10.7	mg/Kg	✱	05/29/25 15:23	05/30/25 22:37	1
Lead	30.1		1.3	0.58	mg/Kg	✱	05/29/25 15:23	05/30/25 22:37	1
Magnesium	3150		25.2	10.7	mg/Kg	✱	05/29/25 15:23	05/30/25 22:37	1
Manganese	463		1.3	0.35	mg/Kg	✱	05/29/25 15:23	06/04/25 19:45	1
Nickel	28.0	^5-	6.3	0.31	mg/Kg	✱	05/29/25 15:23	05/30/25 22:37	1
Potassium	2300		37.7	30.5	mg/Kg	✱	05/29/25 15:23	05/30/25 22:37	1
Selenium	ND		5.0	1.0	mg/Kg	✱	05/29/25 15:23	05/30/25 22:37	1
Silver	ND	^5-	0.75	0.25	mg/Kg	✱	05/29/25 15:23	06/04/25 19:45	1
Sodium	139	J	176	77.1	mg/Kg	✱	05/29/25 15:23	06/04/25 19:45	1
Thallium	ND		7.5	0.96	mg/Kg	✱	05/29/25 15:23	05/30/25 22:37	1
Vanadium	24.8		0.63	0.16	mg/Kg	✱	05/29/25 15:23	05/30/25 22:37	1
Zinc	70.9	^5-	2.5	1.3	mg/Kg	✱	05/29/25 15:23	05/30/25 22:37	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.025	0.0057	mg/Kg	✱	05/30/25 13:38	05/30/25 16:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		1.2	0.60	mg/Kg	✱	05/31/25 13:30	05/31/25 17:44	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-6 Fill

Lab Sample ID: 480-229710-27

Date Collected: 05/27/25 10:20

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 81.8

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.9	0.43	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
1,1,2,2-Tetrachloroethane	ND	vs	5.9	0.96	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.9	1.4	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
1,1,2-Trichloroethane	ND	vs	5.9	0.77	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
1,1-Dichloroethane	ND	vs	5.9	0.72	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
1,1-Dichloroethene	ND	vs	5.9	0.72	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
1,2,4-Trichlorobenzene	ND	vs	5.9	0.36	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.9	3.0	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
1,2-Dichlorobenzene	ND	vs	5.9	0.46	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
1,2-Dichloroethane	ND	vs	5.9	0.30	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
1,2-Dichloropropane	ND	vs	5.9	3.0	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
1,3-Dichlorobenzene	ND	vs	5.9	0.30	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
1,4-Dichlorobenzene	ND	vs	5.9	0.83	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
2-Butanone (MEK)	ND	vs	30	2.2	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
2-Hexanone	ND	vs	30	3.0	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
4-Methyl-2-pentanone (MIBK)	ND	vs	30	1.9	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
Acetone	30	vs	30	5.0	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
Benzene	ND	vs	5.9	0.29	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
Bromoform	ND	vs	5.9	3.0	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
Bromomethane	ND	vs	5.9	0.53	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
Carbon disulfide	ND	vs	5.9	3.0	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
Carbon tetrachloride	ND	vs	5.9	0.57	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
Chlorobenzene	ND	vs	5.9	0.78	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
Dibromochloromethane	ND	vs	5.9	0.76	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
Chloroethane	ND	vs	5.9	1.3	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
Chloroform	0.44	J vs	5.9	0.37	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
Chloromethane	ND	vs	5.9	0.36	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
cis-1,2-Dichloroethene	ND	vs	5.9	0.76	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
Cyclohexane	ND	vs	5.9	0.83	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
Bromodichloromethane	ND	vs	5.9	0.79	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
Dichlorodifluoromethane	ND	vs	5.9	0.49	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
Ethylbenzene	ND	vs	5.9	0.41	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
1,2-Dibromoethane	ND	vs	5.9	0.76	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
Isopropylbenzene	ND	vs	5.9	0.89	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
Methyl acetate	ND	vs	30	3.6	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
Methyl tert-butyl ether	ND	vs	5.9	0.58	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
Methylcyclohexane	ND	vs	5.9	0.90	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
Methylene Chloride	5.8	J B vs	5.9	2.7	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
Tetrachloroethene	ND	vs	5.9	0.79	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
Toluene	ND	vs	5.9	0.45	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
trans-1,2-Dichloroethene	ND	vs	5.9	0.61	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
trans-1,3-Dichloropropene	ND	vs	5.9	2.6	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
Trichloroethene	ND	vs	5.9	1.3	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
Trichlorofluoromethane	ND	vs	5.9	0.56	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
Vinyl chloride	ND	vs	5.9	0.72	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
Xylenes, Total	ND	vs	12	0.99	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
cis-1,3-Dichloropropene	ND	vs	5.9	0.85	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1
Styrene	ND	vs	5.9	0.30	ug/Kg	✱	05/28/25 19:24	05/29/25 02:45	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-6 Fill

Lab Sample ID: 480-229710-27

Date Collected: 05/27/25 10:20

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 81.8

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼		N/A	05/28/25 19:24	05/29/25 02:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		64 - 126				05/28/25 19:24	05/29/25 02:45	1
4-Bromofluorobenzene (Surr)	96		72 - 126				05/28/25 19:24	05/29/25 02:45	1
Toluene-d8 (Surr)	105		71 - 125				05/28/25 19:24	05/29/25 02:45	1
Dibromofluoromethane (Surr)	112		60 - 140				05/28/25 19:24	05/29/25 02:45	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		120	45	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
2,4,5-Trichlorophenol	ND		210	42	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
2,4,6-Trichlorophenol	ND		210	31	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
2,4-Dichlorophenol	ND		210	40	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
2,4-Dimethylphenol	ND		210	43	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
2,4-Dinitrophenol	ND		2000	39	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
2,4-Dinitrotoluene	ND		210	28	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
2,6-Dinitrotoluene	ND		210	29	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
2-Chloronaphthalene	ND		210	38	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
2-Chlorophenol	ND		210	32	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
2-Methylnaphthalene	ND		210	32	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
2-Methylphenol	ND		210	33	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
2-Nitroaniline	ND		400	35	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
2-Nitrophenol	ND		210	23	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
3,3'-Dichlorobenzidine	ND		400	60	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
3-Nitroaniline	ND		400	29	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
4,6-Dinitro-2-methylphenol	ND		400	45	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
4-Bromophenyl phenyl ether	ND		210	35	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
4-Chloro-3-methylphenol	ND		210	42	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
4-Chloroaniline	ND		210	30	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
4-Chlorophenyl phenyl ether	ND		210	43	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
4-Methylphenol	ND		400	37	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
4-Nitroaniline	ND		400	30	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
4-Nitrophenol	ND		400	56	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
Acenaphthene	ND		210	38	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
Acenaphthylene	ND		210	39	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
Acetophenone	ND		210	36	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
Anthracene	ND		210	38	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
Atrazine	ND		210	69	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
Benzaldehyde	ND		210	160	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
Benzo[a]anthracene	ND		210	28	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
Benzo[a]pyrene	ND		210	35	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
Benzo[b]fluoranthene	ND		210	28	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
Benzo[g,h,i]perylene	ND		210	36	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
Benzo[k]fluoranthene	ND		210	46	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
Biphenyl	ND		210	39	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
bis (2-chloroisopropyl) ether	ND		210	42	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
Bis(2-chloroethoxy)methane	ND		210	39	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
Bis(2-chloroethyl)ether	ND		210	39	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
Bis(2-ethylhexyl) phthalate	ND		210	45	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-6 Fill

Lab Sample ID: 480-229710-27

Date Collected: 05/27/25 10:20

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 81.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	ND		210	38	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
Caprolactam	ND		210	48	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
Carbazole	ND		210	40	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
Chrysene	ND		210	49	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
Dibenz(a,h)anthracene	ND		210	42	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
Dibenzofuran	ND		210	36	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
Diethyl phthalate	ND		210	37	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
Dimethyl phthalate	ND		210	40	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
Di-n-butyl phthalate	ND		210	46	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
Di-n-octyl phthalate	ND		210	39	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
Fluoranthene	ND		210	37	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
Fluorene	ND		210	38	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
Hexachlorobenzene	ND		210	40	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
Hexachlorobutadiene	ND		210	31	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
Hexachlorocyclopentadiene	ND		400	90	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
Hexachloroethane	ND		210	38	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
Indeno[1,2,3-cd]pyrene	ND		210	31	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
Isophorone	ND		210	42	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
Naphthalene	ND		210	34	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
Nitrobenzene	ND		210	35	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
N-Nitrosodi-n-propylamine	ND		210	46	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
N-Nitrosodiphenylamine	ND		210	34	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
Pentachlorophenol	ND		400	65	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
Phenanthrene	ND		210	39	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
Phenol	ND		210	37	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1
Pyrene	ND		210	39	ug/Kg	☼	05/29/25 13:56	05/30/25 17:58	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	4700	T J	ug/Kg	☼	1.94	N/A	05/29/25 13:56	05/30/25 17:58	1
Unknown	2100	T J	ug/Kg	☼	3.35	N/A	05/29/25 13:56	05/30/25 17:58	1
3-Eicosene, (E)-	580	T J N	ug/Kg	☼	13.16	74685-33-9	05/29/25 13:56	05/30/25 17:58	1
1-Docosene	790	T J N	ug/Kg	☼	13.70	1599-67-3	05/29/25 13:56	05/30/25 17:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	67		10 - 140	05/29/25 13:56	05/30/25 17:58	1
2-Fluorobiphenyl (Surr)	62		29 - 120	05/29/25 13:56	05/30/25 17:58	1
2-Fluorophenol (Surr)	50		18 - 120	05/29/25 13:56	05/30/25 17:58	1
Nitrobenzene-d5 (Surr)	55		22 - 120	05/29/25 13:56	05/30/25 17:58	1
Phenol-d5 (Surr)	58		23 - 120	05/29/25 13:56	05/30/25 17:58	1
p-Terphenyl-d14 (Surr)	68		28 - 124	05/29/25 13:56	05/30/25 17:58	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.1	0.79	ug/Kg	☼	05/29/25 06:53	05/30/25 15:36	1
4,4'-DDE	ND		4.1	0.85	ug/Kg	☼	05/29/25 06:53	05/30/25 15:36	1
4,4'-DDT	ND		4.1	0.95	ug/Kg	☼	05/29/25 06:53	05/30/25 15:36	1
beta-BHC	ND		4.1	0.73	ug/Kg	☼	05/29/25 06:53	05/30/25 15:36	1
cis-Chlordane	ND		4.1	2.0	ug/Kg	☼	05/29/25 06:53	05/30/25 15:36	1
alpha-BHC	ND		4.1	0.73	ug/Kg	☼	05/29/25 06:53	05/30/25 15:36	1
Aldrin	ND		4.1	1.0	ug/Kg	☼	05/29/25 06:53	05/30/25 15:36	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-6 Fill

Lab Sample ID: 480-229710-27

Date Collected: 05/27/25 10:20

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 81.8

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	ND		4.1	0.75	ug/Kg	✱	05/29/25 06:53	05/30/25 15:36	1
Dieldrin	ND		4.1	0.97	ug/Kg	✱	05/29/25 06:53	05/30/25 15:36	1
Endosulfan I	ND		4.1	0.78	ug/Kg	✱	05/29/25 06:53	05/30/25 15:36	1
Endosulfan II	ND		4.1	0.73	ug/Kg	✱	05/29/25 06:53	05/30/25 15:36	1
Endosulfan sulfate	ND		4.1	0.76	ug/Kg	✱	05/29/25 06:53	05/30/25 15:36	1
Endrin	ND		4.1	0.80	ug/Kg	✱	05/29/25 06:53	05/30/25 15:36	1
Endrin aldehyde	ND		4.1	1.0	ug/Kg	✱	05/29/25 06:53	05/30/25 15:36	1
Endrin ketone	ND		4.1	1.0	ug/Kg	✱	05/29/25 06:53	05/30/25 15:36	1
gamma-BHC (Lindane)	ND		4.1	0.74	ug/Kg	✱	05/29/25 06:53	05/30/25 15:36	1
trans-Chlordane	ND		4.1	1.3	ug/Kg	✱	05/29/25 06:53	05/30/25 15:36	1
Heptachlor	ND		4.1	0.88	ug/Kg	✱	05/29/25 06:53	05/30/25 15:36	1
Heptachlor epoxide	ND		4.1	1.0	ug/Kg	✱	05/29/25 06:53	05/30/25 15:36	1
Methoxychlor	0.98	J	4.1	0.83	ug/Kg	✱	05/29/25 06:53	05/30/25 15:36	1
Toxaphene	ND		41	24	ug/Kg	✱	05/29/25 06:53	05/30/25 15:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	83		45 - 120	05/29/25 06:53	05/30/25 15:36	1
DCB Decachlorobiphenyl	98		45 - 120	05/29/25 06:53	05/30/25 15:36	1
Tetrachloro-m-xylene	68		30 - 124	05/29/25 06:53	05/30/25 15:36	1
Tetrachloro-m-xylene	71		30 - 124	05/29/25 06:53	05/30/25 15:36	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.30	0.059	mg/Kg	✱	05/30/25 13:30	06/02/25 12:47	1
PCB-1221	ND		0.30	0.059	mg/Kg	✱	05/30/25 13:30	06/02/25 12:47	1
PCB-1232	ND		0.30	0.059	mg/Kg	✱	05/30/25 13:30	06/02/25 12:47	1
PCB-1242	ND		0.30	0.059	mg/Kg	✱	05/30/25 13:30	06/02/25 12:47	1
PCB-1248	ND		0.30	0.059	mg/Kg	✱	05/30/25 13:30	06/02/25 12:47	1
PCB-1254	ND		0.30	0.14	mg/Kg	✱	05/30/25 13:30	06/02/25 12:47	1
PCB-1260	ND		0.30	0.14	mg/Kg	✱	05/30/25 13:30	06/02/25 12:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	149		60 - 154	05/30/25 13:30	06/02/25 12:47	1
Tetrachloro-m-xylene	132		60 - 154	05/30/25 13:30	06/02/25 12:47	1
DCB Decachlorobiphenyl	141		65 - 174	05/30/25 13:30	06/02/25 12:47	1
DCB Decachlorobiphenyl	140		65 - 174	05/30/25 13:30	06/02/25 12:47	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.39	0.13	ng/g	✱	06/04/25 14:32	06/05/25 12:58	1
Perfluoropentanoic acid (PFPeA)	ND		0.19	0.049	ng/g	✱	06/04/25 14:32	06/05/25 12:58	1
Perfluorohexanoic acid (PFHxA)	ND		0.19	0.058	ng/g	✱	06/04/25 14:32	06/05/25 12:58	1
Perfluoroheptanoic acid (PFHpA)	ND		0.19	0.068	ng/g	✱	06/04/25 14:32	06/05/25 12:58	1
Perfluorooctanoic acid (PFOA)	ND		0.19	0.058	ng/g	✱	06/04/25 14:32	06/05/25 12:58	1
Perfluorononanoic acid (PFNA)	ND		0.19	0.058	ng/g	✱	06/04/25 14:32	06/05/25 12:58	1
Perfluorodecanoic acid (PFDA)	ND		0.19	0.049	ng/g	✱	06/04/25 14:32	06/05/25 12:58	1
Perfluoroundecanoic acid (PFUnA)	ND		0.19	0.049	ng/g	✱	06/04/25 14:32	06/05/25 12:58	1
Perfluorododecanoic acid (PFDoA)	ND		0.19	0.049	ng/g	✱	06/04/25 14:32	06/05/25 12:58	1
Perfluorotridecanoic acid (PFTTrDA)	ND		0.19	0.068	ng/g	✱	06/04/25 14:32	06/05/25 12:58	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.19	0.068	ng/g	✱	06/04/25 14:32	06/05/25 12:58	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-6 Fill

Lab Sample ID: 480-229710-27

Date Collected: 05/27/25 10:20

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 81.8

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		0.19	0.068	ng/g	✱	06/04/25 14:32	06/05/25 12:58	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.19	0.058	ng/g	✱	06/04/25 14:32	06/05/25 12:58	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.19	0.049	ng/g	✱	06/04/25 14:32	06/05/25 12:58	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.19	0.068	ng/g	✱	06/04/25 14:32	06/05/25 12:58	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.19	0.11	ng/g	✱	06/04/25 14:32	06/05/25 12:58	1
Perfluorononanesulfonic acid (PFNS)	ND		0.19	0.068	ng/g	✱	06/04/25 14:32	06/05/25 12:58	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.19	0.049	ng/g	✱	06/04/25 14:32	06/05/25 12:58	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.19	0.058	ng/g	✱	06/04/25 14:32	06/05/25 12:58	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.39	0.097	ng/g	✱	06/04/25 14:32	06/05/25 12:58	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.39	0.13	ng/g	✱	06/04/25 14:32	06/05/25 12:58	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.39	0.13	ng/g	✱	06/04/25 14:32	06/05/25 12:58	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.19	0.088	ng/g	✱	06/04/25 14:32	06/05/25 12:58	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.19	0.088	ng/g	✱	06/04/25 14:32	06/05/25 12:58	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.19	0.097	ng/g	✱	06/04/25 14:32	06/05/25 12:58	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.19	0.078	ng/g	✱	06/04/25 14:32	06/05/25 12:58	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.19	0.11	ng/g	✱	06/04/25 14:32	06/05/25 12:58	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		0.97	0.29	ng/g	✱	06/04/25 14:32	06/05/25 12:58	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		0.97	0.29	ng/g	✱	06/04/25 14:32	06/05/25 12:58	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.19	0.11	ng/g	✱	06/04/25 14:32	06/05/25 12:58	1
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND		0.19	0.058	ng/g	✱	06/04/25 14:32	06/05/25 12:58	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.19	0.068	ng/g	✱	06/04/25 14:32	06/05/25 12:58	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.19	0.049	ng/g	✱	06/04/25 14:32	06/05/25 12:58	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.19	0.068	ng/g	✱	06/04/25 14:32	06/05/25 12:58	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.19	0.088	ng/g	✱	06/04/25 14:32	06/05/25 12:58	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.19	0.078	ng/g	✱	06/04/25 14:32	06/05/25 12:58	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.19	0.049	ng/g	✱	06/04/25 14:32	06/05/25 12:58	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.39	0.19	ng/g	✱	06/04/25 14:32	06/05/25 12:58	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		0.97	0.49	ng/g	✱	06/04/25 14:32	06/05/25 12:58	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		0.97	0.39	ng/g	✱	06/04/25 14:32	06/05/25 12:58	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4-PFBA	55.5		8 - 130				06/04/25 14:32	06/05/25 12:58	1
13C5-PFPeA	76.0		35 - 130				06/04/25 14:32	06/05/25 12:58	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-6 Fill

Lab Sample ID: 480-229710-27

Date Collected: 05/27/25 10:20

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 81.8

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5-PFHxA	106		40 - 130	06/04/25 14:32	06/05/25 12:58	1
13C4-PFHpA	104		40 - 130	06/04/25 14:32	06/05/25 12:58	1
13C8-PFOA	103		40 - 130	06/04/25 14:32	06/05/25 12:58	1
13C9-PFNA	89.6		40 - 130	06/04/25 14:32	06/05/25 12:58	1
13C6-PFDA	96.4		40 - 130	06/04/25 14:32	06/05/25 12:58	1
13C7-PFUnA	100		40 - 130	06/04/25 14:32	06/05/25 12:58	1
13C2-PFTeDA	61.2		20 - 130	06/04/25 14:32	06/05/25 12:58	1
13C3-PFBS	95.3		40 - 135	06/04/25 14:32	06/05/25 12:58	1
13C3-PFHxS	97.2		40 - 130	06/04/25 14:32	06/05/25 12:58	1
13C8-PFOS	90.7		40 - 130	06/04/25 14:32	06/05/25 12:58	1
13C8-PFOSA	89.4		40 - 130	06/04/25 14:32	06/05/25 12:58	1
d3-NMeFOSAA	89.7		40 - 135	06/04/25 14:32	06/05/25 12:58	1
d5-NEtFOSAA	99.0		40 - 150	06/04/25 14:32	06/05/25 12:58	1
13C2 4:2 FTS	101		40 - 165	06/04/25 14:32	06/05/25 12:58	1
13C2 6:2 FTS	111		40 - 215	06/04/25 14:32	06/05/25 12:58	1
13C2 8:2 FTS	98.8		40 - 275	06/04/25 14:32	06/05/25 12:58	1
13C3-HFPO-DA	94.1		40 - 130	06/04/25 14:32	06/05/25 12:58	1
D7-NMeFOSE	71.1		20 - 130	06/04/25 14:32	06/05/25 12:58	1
D9-NEtFOSE	64.5		15 - 130	06/04/25 14:32	06/05/25 12:58	1
d5-NEtPFOSA	76.8		10 - 130	06/04/25 14:32	06/05/25 12:58	1
d3-NMePFOSA	80.5		10 - 130	06/04/25 14:32	06/05/25 12:58	1
13C2 PFDoA	82.9		40 - 130	06/04/25 14:32	06/05/25 12:58	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	18700		12.2	10.6	mg/Kg	✱	05/29/25 15:23	05/30/25 22:39	1
Antimony	ND		18.4	0.65	mg/Kg	✱	05/29/25 15:23	05/30/25 22:39	1
Arsenic	11.0		2.4	1.1	mg/Kg	✱	05/29/25 15:23	05/30/25 22:39	1
Barium	177		0.61	0.17	mg/Kg	✱	05/29/25 15:23	05/30/25 22:39	1
Beryllium	1.3	^5-	0.24	0.049	mg/Kg	✱	05/29/25 15:23	05/30/25 22:39	1
Cadmium	0.55		0.24	0.086	mg/Kg	✱	05/29/25 15:23	05/30/25 22:39	1
Calcium	22800		61.2	33.0	mg/Kg	✱	05/29/25 15:23	06/04/25 19:47	1
Chromium	19.1		0.61	0.44	mg/Kg	✱	05/29/25 15:23	05/30/25 22:39	1
Cobalt	9.5		0.61	0.12	mg/Kg	✱	05/29/25 15:23	05/30/25 22:39	1
Copper	31.2		1.2	0.70	mg/Kg	✱	05/29/25 15:23	05/30/25 22:39	1
Iron	35200	^2 ^+	12.2	10.4	mg/Kg	✱	05/29/25 15:23	05/30/25 22:39	1
Lead	262		1.2	0.56	mg/Kg	✱	05/29/25 15:23	05/30/25 22:39	1
Magnesium	7350		24.5	10.4	mg/Kg	✱	05/29/25 15:23	05/30/25 22:39	1
Manganese	485		1.2	0.34	mg/Kg	✱	05/29/25 15:23	06/04/25 19:47	1
Nickel	20.4	^5-	6.1	0.31	mg/Kg	✱	05/29/25 15:23	05/30/25 22:39	1
Potassium	2100		36.7	29.7	mg/Kg	✱	05/29/25 15:23	05/30/25 22:39	1
Selenium	1.3	J	4.9	0.98	mg/Kg	✱	05/29/25 15:23	05/30/25 22:39	1
Silver	ND	^5-	0.73	0.24	mg/Kg	✱	05/29/25 15:23	06/04/25 19:47	1
Sodium	361		171	75.1	mg/Kg	✱	05/29/25 15:23	06/04/25 19:47	1
Thallium	ND		7.3	0.93	mg/Kg	✱	05/29/25 15:23	05/30/25 22:39	1
Vanadium	30.4		0.61	0.16	mg/Kg	✱	05/29/25 15:23	05/30/25 22:39	1
Zinc	127	^5-	2.4	1.2	mg/Kg	✱	05/29/25 15:23	05/30/25 22:39	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-6 Fill

Lab Sample ID: 480-229710-27

Date Collected: 05/27/25 10:20

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 81.8

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.42		0.024	0.0056	mg/Kg	☆	05/30/25 13:38	05/30/25 16:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		1.2	0.56	mg/Kg	☆	05/31/25 13:30	05/31/25 17:44	1

Client Sample ID: RI-BH-6 Native

Lab Sample ID: 480-229710-28

Date Collected: 05/27/25 10:25

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 92.9

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.3	0.39	ug/Kg	☆	05/29/25 18:01	05/30/25 00:12	1
1,1,2,2-Tetrachloroethane	ND	*3 vs	5.3	0.87	ug/Kg	☆	05/29/25 18:01	05/30/25 00:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.3	1.2	ug/Kg	☆	05/29/25 18:01	05/30/25 00:12	1
1,1,2-Trichloroethane	ND	vs	5.3	0.69	ug/Kg	☆	05/29/25 18:01	05/30/25 00:12	1
1,1-Dichloroethane	ND	vs	5.3	0.65	ug/Kg	☆	05/29/25 18:01	05/30/25 00:12	1
1,1-Dichloroethene	ND	vs	5.3	0.65	ug/Kg	☆	05/29/25 18:01	05/30/25 00:12	1
1,2,4-Trichlorobenzene	ND	*3 vs	5.3	0.32	ug/Kg	☆	05/29/25 18:01	05/30/25 00:12	1
1,2-Dibromo-3-Chloropropane	ND	*3 vs	5.3	2.7	ug/Kg	☆	05/29/25 18:01	05/30/25 00:12	1
1,2-Dichlorobenzene	ND	*3 vs	5.3	0.42	ug/Kg	☆	05/29/25 18:01	05/30/25 00:12	1
1,2-Dichloroethane	ND	vs	5.3	0.27	ug/Kg	☆	05/29/25 18:01	05/30/25 00:12	1
1,2-Dichloropropane	ND	vs	5.3	2.7	ug/Kg	☆	05/29/25 18:01	05/30/25 00:12	1
1,3-Dichlorobenzene	ND	*3 vs	5.3	0.27	ug/Kg	☆	05/29/25 18:01	05/30/25 00:12	1
1,4-Dichlorobenzene	ND	*3 vs	5.3	0.75	ug/Kg	☆	05/29/25 18:01	05/30/25 00:12	1
2-Butanone (MEK)	ND	vs	27	2.0	ug/Kg	☆	05/29/25 18:01	05/30/25 00:12	1
2-Hexanone	ND	vs	27	2.7	ug/Kg	☆	05/29/25 18:01	05/30/25 00:12	1
4-Methyl-2-pentanone (MIBK)	ND	vs	27	1.8	ug/Kg	☆	05/29/25 18:01	05/30/25 00:12	1
Acetone	15	J vs	27	4.5	ug/Kg	☆	05/29/25 18:01	05/30/25 00:12	1
Benzene	ND	vs	5.3	0.26	ug/Kg	☆	05/29/25 18:01	05/30/25 00:12	1
Bromoform	ND	vs	5.3	2.7	ug/Kg	☆	05/29/25 18:01	05/30/25 00:12	1
Bromomethane	ND	vs	5.3	0.48	ug/Kg	☆	05/29/25 18:01	05/30/25 00:12	1
Carbon disulfide	5.1	J vs	5.3	2.7	ug/Kg	☆	05/29/25 18:01	05/30/25 00:12	1
Carbon tetrachloride	ND	vs	5.3	0.52	ug/Kg	☆	05/29/25 18:01	05/30/25 00:12	1
Chlorobenzene	ND	vs	5.3	0.70	ug/Kg	☆	05/29/25 18:01	05/30/25 00:12	1
Dibromochloromethane	ND	vs	5.3	0.68	ug/Kg	☆	05/29/25 18:01	05/30/25 00:12	1
Chloroethane	ND	vs	5.3	1.2	ug/Kg	☆	05/29/25 18:01	05/30/25 00:12	1
Chloroform	ND	vs	5.3	0.33	ug/Kg	☆	05/29/25 18:01	05/30/25 00:12	1
Chloromethane	ND	vs	5.3	0.32	ug/Kg	☆	05/29/25 18:01	05/30/25 00:12	1
cis-1,2-Dichloroethene	ND	vs	5.3	0.68	ug/Kg	☆	05/29/25 18:01	05/30/25 00:12	1
Cyclohexane	ND	vs	5.3	0.75	ug/Kg	☆	05/29/25 18:01	05/30/25 00:12	1
Bromodichloromethane	ND	vs	5.3	0.72	ug/Kg	☆	05/29/25 18:01	05/30/25 00:12	1
Dichlorodifluoromethane	ND	vs	5.3	0.44	ug/Kg	☆	05/29/25 18:01	05/30/25 00:12	1
Ethylbenzene	ND	vs	5.3	0.37	ug/Kg	☆	05/29/25 18:01	05/30/25 00:12	1
1,2-Dibromoethane	ND	vs	5.3	0.69	ug/Kg	☆	05/29/25 18:01	05/30/25 00:12	1
Isopropylbenzene	ND	*3 vs	5.3	0.81	ug/Kg	☆	05/29/25 18:01	05/30/25 00:12	1
Methyl acetate	ND	vs	27	3.2	ug/Kg	☆	05/29/25 18:01	05/30/25 00:12	1
Methyl tert-butyl ether	ND	vs	5.3	0.52	ug/Kg	☆	05/29/25 18:01	05/30/25 00:12	1
Methylcyclohexane	ND	vs	5.3	0.81	ug/Kg	☆	05/29/25 18:01	05/30/25 00:12	1
Methylene Chloride	ND	vs	5.3	2.5	ug/Kg	☆	05/29/25 18:01	05/30/25 00:12	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-6 Native

Lab Sample ID: 480-229710-28

Date Collected: 05/27/25 10:25

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 92.9

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND	vs	5.3	0.72	ug/Kg	☼	05/29/25 18:01	05/30/25 00:12	1
Toluene	ND	vs	5.3	0.40	ug/Kg	☼	05/29/25 18:01	05/30/25 00:12	1
trans-1,2-Dichloroethene	ND	vs	5.3	0.55	ug/Kg	☼	05/29/25 18:01	05/30/25 00:12	1
trans-1,3-Dichloropropene	ND	vs	5.3	2.3	ug/Kg	☼	05/29/25 18:01	05/30/25 00:12	1
Trichloroethene	ND	vs	5.3	1.2	ug/Kg	☼	05/29/25 18:01	05/30/25 00:12	1
Trichlorofluoromethane	ND	vs	5.3	0.51	ug/Kg	☼	05/29/25 18:01	05/30/25 00:12	1
Vinyl chloride	ND	vs	5.3	0.65	ug/Kg	☼	05/29/25 18:01	05/30/25 00:12	1
Xylenes, Total	ND	vs	11	0.90	ug/Kg	☼	05/29/25 18:01	05/30/25 00:12	1
cis-1,3-Dichloropropene	ND	vs	5.3	0.77	ug/Kg	☼	05/29/25 18:01	05/30/25 00:12	1
Styrene	ND	vs	5.3	0.27	ug/Kg	☼	05/29/25 18:01	05/30/25 00:12	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼		N/A	05/29/25 18:01	05/30/25 00:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		64 - 126	05/29/25 18:01	05/30/25 00:12	1
4-Bromofluorobenzene (Surr)	79		72 - 126	05/29/25 18:01	05/30/25 00:12	1
Toluene-d8 (Surr)	130	S1+	71 - 125	05/29/25 18:01	05/30/25 00:12	1
Dibromofluoromethane (Surr)	109		60 - 140	05/29/25 18:01	05/30/25 00:12	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		110	40	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
2,4,5-Trichlorophenol	ND		180	37	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
2,4,6-Trichlorophenol	ND		180	27	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
2,4-Dichlorophenol	ND		180	35	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
2,4-Dimethylphenol	ND		180	38	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
2,4-Dinitrophenol	ND		1800	34	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
2,4-Dinitrotoluene	ND		180	25	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
2,6-Dinitrotoluene	ND		180	26	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
2-Chloronaphthalene	ND		180	34	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
2-Chlorophenol	ND		180	28	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
2-Methylnaphthalene	ND		180	28	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
2-Methylphenol	ND		180	29	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
2-Nitroaniline	ND		350	31	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
2-Nitrophenol	ND		180	21	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
3,3'-Dichlorobenzidine	ND		350	53	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
3-Nitroaniline	ND		350	26	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
4,6-Dinitro-2-methylphenol	ND		350	40	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
4-Bromophenyl phenyl ether	ND		180	31	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
4-Chloro-3-methylphenol	ND		180	37	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
4-Chloroaniline	ND		180	26	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
4-Chlorophenyl phenyl ether	ND		180	38	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
4-Methylphenol	ND		350	32	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
4-Nitroaniline	ND		350	27	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
4-Nitrophenol	ND		350	49	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
Acenaphthene	ND		180	34	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
Acenaphthylene	ND		180	35	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
Acetophenone	ND		180	32	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
Anthracene	ND		180	33	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-6 Native

Lab Sample ID: 480-229710-28

Date Collected: 05/27/25 10:25

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 92.9

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	ND		180	61	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
Benzaldehyde	ND		180	140	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
Benzo[a]anthracene	ND		180	25	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
Benzo[a]pyrene	ND		180	31	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
Benzo[b]fluoranthene	ND		180	24	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
Benzo[g,h,i]perylene	ND		180	32	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
Benzo[k]fluoranthene	ND		180	41	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
Biphenyl	ND		180	34	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
bis (2-chloroisopropyl) ether	ND		180	37	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
Bis(2-chloroethoxy)methane	ND		180	35	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
Bis(2-chloroethyl)ether	ND		180	34	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
Bis(2-ethylhexyl) phthalate	ND		180	39	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
Butyl benzyl phthalate	ND		180	33	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
Caprolactam	ND		180	42	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
Carbazole	ND		180	35	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
Chrysene	ND		180	44	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
Dibenz(a,h)anthracene	ND		180	37	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
Dibenzofuran	ND		180	32	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
Diethyl phthalate	ND		180	32	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
Dimethyl phthalate	ND		180	35	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
Di-n-butyl phthalate	ND		180	41	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
Di-n-octyl phthalate	ND		180	34	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
Fluoranthene	ND		180	33	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
Fluorene	ND		180	33	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
Hexachlorobenzene	ND		180	35	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
Hexachlorobutadiene	ND		180	27	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
Hexachlorocyclopentadiene	ND		350	79	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
Hexachloroethane	ND		180	33	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
Indeno[1,2,3-cd]pyrene	ND		180	27	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
Isophorone	ND		180	37	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
Naphthalene	ND		180	30	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
Nitrobenzene	ND		180	30	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
N-Nitrosodi-n-propylamine	ND		180	41	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
N-Nitrosodiphenylamine	ND		180	30	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
Pentachlorophenol	ND		350	58	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
Phenanthrene	35	J	180	34	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
Phenol	ND		180	33	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1
Pyrene	65	J	180	34	ug/Kg	☼	05/29/25 13:56	05/30/25 18:29	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	4800	T J	ug/Kg	☼	1.93	N/A	05/29/25 13:56	05/30/25 18:29	1
Unknown	4400	T J	ug/Kg	☼	3.35	N/A	05/29/25 13:56	05/30/25 18:29	1
Decane	2000	T J N	ug/Kg	☼	5.46	124-18-5	05/29/25 13:56	05/30/25 18:29	1
Undecane	2000	T J N	ug/Kg	☼	6.42	1120-21-4	05/29/25 13:56	05/30/25 18:29	1
Dodecane	2500	T J N	ug/Kg	☼	7.23	112-40-3	05/29/25 13:56	05/30/25 18:29	1
Undecane, 2,6-dimethyl-	1400	T J N	ug/Kg	☼	7.33	17301-23-4	05/29/25 13:56	05/30/25 18:29	1
Unknown	1600	T J	ug/Kg	☼	7.75	N/A	05/29/25 13:56	05/30/25 18:29	1
Tridecane	2900	T J N	ug/Kg	☼	7.96	629-50-5	05/29/25 13:56	05/30/25 18:29	1
Tetradecane	1900	T J N	ug/Kg	☼	8.63	629-59-4	05/29/25 13:56	05/30/25 18:29	1
Hexadecane	1600	T J N	ug/Kg	☼	9.83	544-76-3	05/29/25 13:56	05/30/25 18:29	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-6 Native

Lab Sample ID: 480-229710-28

Date Collected: 05/27/25 10:25

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 92.9

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Pentadecane, 2,6,10-trimethyl-	2100	T J N	ug/Kg	⊛	10.08	3892-00-0	05/29/25 13:56	05/30/25 18:29	1
Heptadecane	3100	T J N	ug/Kg	⊛	10.35	629-78-7	05/29/25 13:56	05/30/25 18:29	1
Pentadecane, 2,6,10,14-tetramethyl-	2800	T J N	ug/Kg	⊛	10.37	1921-70-6	05/29/25 13:56	05/30/25 18:29	1
Pentadecane	2500	T J N	ug/Kg	⊛	10.82	629-62-9	05/29/25 13:56	05/30/25 18:29	1
Pentacosane	1600	T J N	ug/Kg	⊛	10.85	629-99-2	05/29/25 13:56	05/30/25 18:29	1
Octadecane	2200	T J N	ug/Kg	⊛	11.24	593-45-3	05/29/25 13:56	05/30/25 18:29	1
Eicosane	2000	T J N	ug/Kg	⊛	11.62	112-95-8	05/29/25 13:56	05/30/25 18:29	1
Heneicosane	2000	T J N	ug/Kg	⊛	11.97	629-94-7	05/29/25 13:56	05/30/25 18:29	1
Tricosane	1500	T J N	ug/Kg	⊛	12.60	638-67-5	05/29/25 13:56	05/30/25 18:29	1
Hexatriacontane	1400	T J N	ug/Kg	⊛	12.89	630-06-8	05/29/25 13:56	05/30/25 18:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	60		10 - 140	05/29/25 13:56	05/30/25 18:29	1
2-Fluorobiphenyl (Surr)	60		29 - 120	05/29/25 13:56	05/30/25 18:29	1
2-Fluorophenol (Surr)	54		18 - 120	05/29/25 13:56	05/30/25 18:29	1
Nitrobenzene-d5 (Surr)	58		22 - 120	05/29/25 13:56	05/30/25 18:29	1
Phenol-d5 (Surr)	54		23 - 120	05/29/25 13:56	05/30/25 18:29	1
p-Terphenyl-d14 (Surr)	60		28 - 124	05/29/25 13:56	05/30/25 18:29	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		3.6	0.69	ug/Kg	⊛	05/29/25 06:53	05/30/25 15:56	1
4,4'-DDE	0.78	J	3.6	0.75	ug/Kg	⊛	05/29/25 06:53	05/30/25 15:56	1
4,4'-DDT	ND		3.6	0.83	ug/Kg	⊛	05/29/25 06:53	05/30/25 15:56	1
beta-BHC	ND		3.6	0.64	ug/Kg	⊛	05/29/25 06:53	05/30/25 15:56	1
cis-Chlordane	ND		3.6	1.8	ug/Kg	⊛	05/29/25 06:53	05/30/25 15:56	1
alpha-BHC	ND		3.6	0.64	ug/Kg	⊛	05/29/25 06:53	05/30/25 15:56	1
Aldrin	ND		3.6	0.87	ug/Kg	⊛	05/29/25 06:53	05/30/25 15:56	1
delta-BHC	ND		3.6	0.66	ug/Kg	⊛	05/29/25 06:53	05/30/25 15:56	1
Dieldrin	ND		3.6	0.85	ug/Kg	⊛	05/29/25 06:53	05/30/25 15:56	1
Endosulfan I	ND		3.6	0.68	ug/Kg	⊛	05/29/25 06:53	05/30/25 15:56	1
Endosulfan II	ND		3.6	0.64	ug/Kg	⊛	05/29/25 06:53	05/30/25 15:56	1
Endosulfan sulfate	ND		3.6	0.66	ug/Kg	⊛	05/29/25 06:53	05/30/25 15:56	1
Endrin	ND		3.6	0.70	ug/Kg	⊛	05/29/25 06:53	05/30/25 15:56	1
Endrin aldehyde	ND		3.6	0.91	ug/Kg	⊛	05/29/25 06:53	05/30/25 15:56	1
Endrin ketone	ND		3.6	0.87	ug/Kg	⊛	05/29/25 06:53	05/30/25 15:56	1
gamma-BHC (Lindane)	ND		3.6	0.65	ug/Kg	⊛	05/29/25 06:53	05/30/25 15:56	1
trans-Chlordane	ND		3.6	1.1	ug/Kg	⊛	05/29/25 06:53	05/30/25 15:56	1
Heptachlor	ND		3.6	0.77	ug/Kg	⊛	05/29/25 06:53	05/30/25 15:56	1
Heptachlor epoxide	ND		3.6	0.92	ug/Kg	⊛	05/29/25 06:53	05/30/25 15:56	1
Methoxychlor	2.2	J	3.6	0.72	ug/Kg	⊛	05/29/25 06:53	05/30/25 15:56	1
Toxaphene	ND		36	21	ug/Kg	⊛	05/29/25 06:53	05/30/25 15:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	75		45 - 120	05/29/25 06:53	05/30/25 15:56	1
DCB Decachlorobiphenyl	95		45 - 120	05/29/25 06:53	05/30/25 15:56	1
Tetrachloro-m-xylene	62		30 - 124	05/29/25 06:53	05/30/25 15:56	1
Tetrachloro-m-xylene	67		30 - 124	05/29/25 06:53	05/30/25 15:56	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-6 Native

Lab Sample ID: 480-229710-28

Date Collected: 05/27/25 10:25

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 92.9

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25	0.049	mg/Kg	✱	05/30/25 13:30	06/02/25 13:05	1
PCB-1221	ND		0.25	0.049	mg/Kg	✱	05/30/25 13:30	06/02/25 13:05	1
PCB-1232	ND		0.25	0.049	mg/Kg	✱	05/30/25 13:30	06/02/25 13:05	1
PCB-1242	ND		0.25	0.049	mg/Kg	✱	05/30/25 13:30	06/02/25 13:05	1
PCB-1248	ND		0.25	0.049	mg/Kg	✱	05/30/25 13:30	06/02/25 13:05	1
PCB-1254	ND		0.25	0.12	mg/Kg	✱	05/30/25 13:30	06/02/25 13:05	1
PCB-1260	ND		0.25	0.12	mg/Kg	✱	05/30/25 13:30	06/02/25 13:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	117		60 - 154	05/30/25 13:30	06/02/25 13:05	1
Tetrachloro-m-xylene	105		60 - 154	05/30/25 13:30	06/02/25 13:05	1
DCB Decachlorobiphenyl	128		65 - 174	05/30/25 13:30	06/02/25 13:05	1
DCB Decachlorobiphenyl	125		65 - 174	05/30/25 13:30	06/02/25 13:05	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.40	0.13	ng/g	✱	06/04/25 14:32	06/05/25 13:11	1
Perfluoropentanoic acid (PFPeA)	ND		0.20	0.050	ng/g	✱	06/04/25 14:32	06/05/25 13:11	1
Perfluorohexanoic acid (PFHxA)	ND		0.20	0.060	ng/g	✱	06/04/25 14:32	06/05/25 13:11	1
Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.069	ng/g	✱	06/04/25 14:32	06/05/25 13:11	1
Perfluorooctanoic acid (PFOA)	ND		0.20	0.060	ng/g	✱	06/04/25 14:32	06/05/25 13:11	1
Perfluorononanoic acid (PFNA)	ND		0.20	0.060	ng/g	✱	06/04/25 14:32	06/05/25 13:11	1
Perfluorodecanoic acid (PFDA)	ND		0.20	0.050	ng/g	✱	06/04/25 14:32	06/05/25 13:11	1
Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.050	ng/g	✱	06/04/25 14:32	06/05/25 13:11	1
Perfluorododecanoic acid (PFDoA)	ND		0.20	0.050	ng/g	✱	06/04/25 14:32	06/05/25 13:11	1
Perfluorotridecanoic acid (PFTriDA)	ND		0.20	0.069	ng/g	✱	06/04/25 14:32	06/05/25 13:11	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.20	0.069	ng/g	✱	06/04/25 14:32	06/05/25 13:11	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.069	ng/g	✱	06/04/25 14:32	06/05/25 13:11	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.20	0.060	ng/g	✱	06/04/25 14:32	06/05/25 13:11	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.050	ng/g	✱	06/04/25 14:32	06/05/25 13:11	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.069	ng/g	✱	06/04/25 14:32	06/05/25 13:11	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.20	0.11	ng/g	✱	06/04/25 14:32	06/05/25 13:11	1
Perfluorononanesulfonic acid (PFNS)	ND		0.20	0.069	ng/g	✱	06/04/25 14:32	06/05/25 13:11	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.050	ng/g	✱	06/04/25 14:32	06/05/25 13:11	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.060	ng/g	✱	06/04/25 14:32	06/05/25 13:11	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.40	0.099	ng/g	✱	06/04/25 14:32	06/05/25 13:11	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.40	0.13	ng/g	✱	06/04/25 14:32	06/05/25 13:11	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.40	0.13	ng/g	✱	06/04/25 14:32	06/05/25 13:11	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.089	ng/g	✱	06/04/25 14:32	06/05/25 13:11	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.20	0.089	ng/g	✱	06/04/25 14:32	06/05/25 13:11	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.20	0.099	ng/g	✱	06/04/25 14:32	06/05/25 13:11	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.20	0.079	ng/g	✱	06/04/25 14:32	06/05/25 13:11	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-6 Native

Lab Sample ID: 480-229710-28

Date Collected: 05/27/25 10:25

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 92.9

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.20	0.11	ng/g	☼	06/04/25 14:32	06/05/25 13:11	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		0.99	0.30	ng/g	☼	06/04/25 14:32	06/05/25 13:11	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		0.99	0.30	ng/g	☼	06/04/25 14:32	06/05/25 13:11	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.20	0.11	ng/g	☼	06/04/25 14:32	06/05/25 13:11	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.20	0.060	ng/g	☼	06/04/25 14:32	06/05/25 13:11	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.20	0.069	ng/g	☼	06/04/25 14:32	06/05/25 13:11	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.20	0.050	ng/g	☼	06/04/25 14:32	06/05/25 13:11	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.20	0.069	ng/g	☼	06/04/25 14:32	06/05/25 13:11	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.20	0.089	ng/g	☼	06/04/25 14:32	06/05/25 13:11	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.20	0.079	ng/g	☼	06/04/25 14:32	06/05/25 13:11	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.20	0.050	ng/g	☼	06/04/25 14:32	06/05/25 13:11	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.40	0.20	ng/g	☼	06/04/25 14:32	06/05/25 13:11	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		0.99	0.50	ng/g	☼	06/04/25 14:32	06/05/25 13:11	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		0.99	0.40	ng/g	☼	06/04/25 14:32	06/05/25 13:11	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	111		8 - 130	06/04/25 14:32	06/05/25 13:11	1
13C5-PFPeA	112		35 - 130	06/04/25 14:32	06/05/25 13:11	1
13C5-PFHxA	116		40 - 130	06/04/25 14:32	06/05/25 13:11	1
13C4-PFHpA	107		40 - 130	06/04/25 14:32	06/05/25 13:11	1
13C8-PFOA	104		40 - 130	06/04/25 14:32	06/05/25 13:11	1
13C9-PFNA	98.7		40 - 130	06/04/25 14:32	06/05/25 13:11	1
13C6-PFDA	90.7		40 - 130	06/04/25 14:32	06/05/25 13:11	1
13C7-PFUnA	91.9		40 - 130	06/04/25 14:32	06/05/25 13:11	1
13C2-PFTeDA	36.1		20 - 130	06/04/25 14:32	06/05/25 13:11	1
13C3-PFBS	95.7		40 - 135	06/04/25 14:32	06/05/25 13:11	1
13C3-PFHxS	95.4		40 - 130	06/04/25 14:32	06/05/25 13:11	1
13C8-PFOS	79.9		40 - 130	06/04/25 14:32	06/05/25 13:11	1
13C8-PFOSA	88.2		40 - 130	06/04/25 14:32	06/05/25 13:11	1
d3-NMeFOSAA	63.7		40 - 135	06/04/25 14:32	06/05/25 13:11	1
d5-NEtFOSAA	65.3		40 - 150	06/04/25 14:32	06/05/25 13:11	1
13C2 4:2 FTS	104		40 - 165	06/04/25 14:32	06/05/25 13:11	1
13C2 6:2 FTS	133		40 - 215	06/04/25 14:32	06/05/25 13:11	1
13C2 8:2 FTS	98.8		40 - 275	06/04/25 14:32	06/05/25 13:11	1
13C3-HFPO-DA	102		40 - 130	06/04/25 14:32	06/05/25 13:11	1
D7-NMeFOSE	57.6		20 - 130	06/04/25 14:32	06/05/25 13:11	1
D9-NEtFOSE	53.7		15 - 130	06/04/25 14:32	06/05/25 13:11	1
d5-NEtPFOSA	71.2		10 - 130	06/04/25 14:32	06/05/25 13:11	1
d3-NMePFOSA	78.5		10 - 130	06/04/25 14:32	06/05/25 13:11	1
13C2 PFDoA	71.0		40 - 130	06/04/25 14:32	06/05/25 13:11	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-6 Native

Lab Sample ID: 480-229710-28

Date Collected: 05/27/25 10:25

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 92.9

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13900		11.1	9.6	mg/Kg	✱	05/29/25 15:23	05/30/25 22:41	1
Antimony	1.5	J F1	16.7	0.59	mg/Kg	✱	05/29/25 15:23	05/30/25 22:41	1
Arsenic	10.7		2.2	0.98	mg/Kg	✱	05/29/25 15:23	05/30/25 22:41	1
Barium	117	F1	0.56	0.16	mg/Kg	✱	05/29/25 15:23	05/30/25 22:41	1
Beryllium	1.0	^5-	0.22	0.045	mg/Kg	✱	05/29/25 15:23	05/30/25 22:41	1
Cadmium	0.17	J	0.22	0.078	mg/Kg	✱	05/29/25 15:23	05/30/25 22:41	1
Calcium	270	^5-	55.7	30.1	mg/Kg	✱	05/29/25 15:23	05/30/25 22:41	1
Chromium	20.3		0.56	0.40	mg/Kg	✱	05/29/25 15:23	05/30/25 22:41	1
Cobalt	12.9		0.56	0.11	mg/Kg	✱	05/29/25 15:23	05/30/25 22:41	1
Copper	42.0		1.1	0.64	mg/Kg	✱	05/29/25 15:23	05/30/25 22:41	1
Iron	40300	^2 ^+	11.1	9.5	mg/Kg	✱	05/29/25 15:23	05/30/25 22:41	1
Lead	18.3		1.1	0.51	mg/Kg	✱	05/29/25 15:23	05/30/25 22:41	1
Magnesium	3750		22.3	9.5	mg/Kg	✱	05/29/25 15:23	05/30/25 22:41	1
Manganese	125	^5-	1.1	0.31	mg/Kg	✱	05/29/25 15:23	05/30/25 22:41	1
Nickel	33.6	^5-	5.6	0.28	mg/Kg	✱	05/29/25 15:23	05/30/25 22:41	1
Potassium	2910		33.4	27.0	mg/Kg	✱	05/29/25 15:23	05/30/25 22:41	1
Selenium	1.6	J	4.5	0.89	mg/Kg	✱	05/29/25 15:23	05/30/25 22:41	1
Silver	ND	^5-	0.67	0.22	mg/Kg	✱	05/29/25 15:23	06/04/25 19:49	1
Sodium	133	J	156	68.3	mg/Kg	✱	05/29/25 15:23	06/04/25 19:49	1
Thallium	ND		6.7	0.85	mg/Kg	✱	05/29/25 15:23	05/30/25 22:41	1
Vanadium	27.2		0.56	0.14	mg/Kg	✱	05/29/25 15:23	05/30/25 22:41	1
Zinc	44.2	^5-	2.2	1.1	mg/Kg	✱	05/29/25 15:23	05/30/25 22:41	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.022	0.0051	mg/Kg	✱	05/30/25 13:38	05/30/25 16:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.91	0.44	mg/Kg	✱	05/31/25 13:30	05/31/25 17:47	1

Client Sample ID: RI-BH-7 Fill

Lab Sample ID: 480-229710-29

Date Collected: 05/27/25 10:35

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 73.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	6.7	0.48	ug/Kg	✱	05/29/25 18:01	05/30/25 00:39	1
1,1,1,2,2-Tetrachloroethane	ND	vs	6.7	1.1	ug/Kg	✱	05/29/25 18:01	05/30/25 00:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.7	1.5	ug/Kg	✱	05/29/25 18:01	05/30/25 00:39	1
1,1,2-Trichloroethane	ND	vs	6.7	0.87	ug/Kg	✱	05/29/25 18:01	05/30/25 00:39	1
1,1-Dichloroethane	ND	vs	6.7	0.81	ug/Kg	✱	05/29/25 18:01	05/30/25 00:39	1
1,1-Dichloroethene	ND	vs	6.7	0.82	ug/Kg	✱	05/29/25 18:01	05/30/25 00:39	1
1,2,4-Trichlorobenzene	ND	vs	6.7	0.41	ug/Kg	✱	05/29/25 18:01	05/30/25 00:39	1
1,2-Dibromo-3-Chloropropane	ND	vs	6.7	3.3	ug/Kg	✱	05/29/25 18:01	05/30/25 00:39	1
1,2-Dichlorobenzene	ND	vs	6.7	0.52	ug/Kg	✱	05/29/25 18:01	05/30/25 00:39	1
1,2-Dichloroethane	ND	vs	6.7	0.34	ug/Kg	✱	05/29/25 18:01	05/30/25 00:39	1
1,2-Dichloropropane	ND	vs	6.7	3.3	ug/Kg	✱	05/29/25 18:01	05/30/25 00:39	1
1,3-Dichlorobenzene	ND	vs	6.7	0.34	ug/Kg	✱	05/29/25 18:01	05/30/25 00:39	1
1,4-Dichlorobenzene	ND	vs	6.7	0.93	ug/Kg	✱	05/29/25 18:01	05/30/25 00:39	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-7 Fill

Lab Sample ID: 480-229710-29

Date Collected: 05/27/25 10:35

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 73.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	7.6	J vs	33	2.4	ug/Kg	☼	05/29/25 18:01	05/30/25 00:39	1
2-Hexanone	ND	vs	33	3.3	ug/Kg	☼	05/29/25 18:01	05/30/25 00:39	1
4-Methyl-2-pentanone (MIBK)	ND	vs	33	2.2	ug/Kg	☼	05/29/25 18:01	05/30/25 00:39	1
Acetone	49	vs	33	5.6	ug/Kg	☼	05/29/25 18:01	05/30/25 00:39	1
Benzene	0.68	J vs	6.7	0.33	ug/Kg	☼	05/29/25 18:01	05/30/25 00:39	1
Bromoform	ND	vs	6.7	3.3	ug/Kg	☼	05/29/25 18:01	05/30/25 00:39	1
Bromomethane	ND	vs	6.7	0.60	ug/Kg	☼	05/29/25 18:01	05/30/25 00:39	1
Carbon disulfide	6.0	J vs	6.7	3.3	ug/Kg	☼	05/29/25 18:01	05/30/25 00:39	1
Carbon tetrachloride	ND	vs	6.7	0.65	ug/Kg	☼	05/29/25 18:01	05/30/25 00:39	1
Chlorobenzene	ND	vs	6.7	0.88	ug/Kg	☼	05/29/25 18:01	05/30/25 00:39	1
Dibromochloromethane	ND	vs	6.7	0.85	ug/Kg	☼	05/29/25 18:01	05/30/25 00:39	1
Chloroethane	ND	vs	6.7	1.5	ug/Kg	☼	05/29/25 18:01	05/30/25 00:39	1
Chloroform	ND	vs	6.7	0.41	ug/Kg	☼	05/29/25 18:01	05/30/25 00:39	1
Chloromethane	ND	vs	6.7	0.40	ug/Kg	☼	05/29/25 18:01	05/30/25 00:39	1
cis-1,2-Dichloroethene	ND	vs	6.7	0.85	ug/Kg	☼	05/29/25 18:01	05/30/25 00:39	1
Cyclohexane	ND	vs	6.7	0.93	ug/Kg	☼	05/29/25 18:01	05/30/25 00:39	1
Bromodichloromethane	ND	vs	6.7	0.89	ug/Kg	☼	05/29/25 18:01	05/30/25 00:39	1
Dichlorodifluoromethane	ND	vs	6.7	0.55	ug/Kg	☼	05/29/25 18:01	05/30/25 00:39	1
Ethylbenzene	ND	vs	6.7	0.46	ug/Kg	☼	05/29/25 18:01	05/30/25 00:39	1
1,2-Dibromoethane	ND	vs	6.7	0.86	ug/Kg	☼	05/29/25 18:01	05/30/25 00:39	1
Isopropylbenzene	ND	vs	6.7	1.0	ug/Kg	☼	05/29/25 18:01	05/30/25 00:39	1
Methyl acetate	ND	vs	33	4.0	ug/Kg	☼	05/29/25 18:01	05/30/25 00:39	1
Methyl tert-butyl ether	ND	vs	6.7	0.66	ug/Kg	☼	05/29/25 18:01	05/30/25 00:39	1
Methylcyclohexane	ND	vs	6.7	1.0	ug/Kg	☼	05/29/25 18:01	05/30/25 00:39	1
Methylene Chloride	ND	vs	6.7	3.1	ug/Kg	☼	05/29/25 18:01	05/30/25 00:39	1
Tetrachloroethene	ND	vs	6.7	0.90	ug/Kg	☼	05/29/25 18:01	05/30/25 00:39	1
Toluene	0.78	J vs	6.7	0.50	ug/Kg	☼	05/29/25 18:01	05/30/25 00:39	1
trans-1,2-Dichloroethene	ND	vs	6.7	0.69	ug/Kg	☼	05/29/25 18:01	05/30/25 00:39	1
trans-1,3-Dichloropropene	ND	vs	6.7	2.9	ug/Kg	☼	05/29/25 18:01	05/30/25 00:39	1
Trichloroethene	ND	vs	6.7	1.5	ug/Kg	☼	05/29/25 18:01	05/30/25 00:39	1
Trichlorofluoromethane	ND	vs	6.7	0.63	ug/Kg	☼	05/29/25 18:01	05/30/25 00:39	1
Vinyl chloride	ND	vs	6.7	0.81	ug/Kg	☼	05/29/25 18:01	05/30/25 00:39	1
Xylenes, Total	ND	vs	13	1.1	ug/Kg	☼	05/29/25 18:01	05/30/25 00:39	1
cis-1,3-Dichloropropene	ND	vs	6.7	0.96	ug/Kg	☼	05/29/25 18:01	05/30/25 00:39	1
Styrene	ND	vs	6.7	0.33	ug/Kg	☼	05/29/25 18:01	05/30/25 00:39	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼		N/A	05/29/25 18:01	05/30/25 00:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		64 - 126				05/29/25 18:01	05/30/25 00:39	1
4-Bromofluorobenzene (Surr)	90		72 - 126				05/29/25 18:01	05/30/25 00:39	1
Toluene-d8 (Surr)	115		71 - 125				05/29/25 18:01	05/30/25 00:39	1
Dibromofluoromethane (Surr)	106		60 - 140				05/29/25 18:01	05/30/25 00:39	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		130	50	ug/Kg	☼	05/29/25 13:56	05/30/25 18:53	1
2,4,5-Trichlorophenol	ND		230	46	ug/Kg	☼	05/29/25 13:56	05/30/25 18:53	1
2,4,6-Trichlorophenol	ND		230	34	ug/Kg	☼	05/29/25 13:56	05/30/25 18:53	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-7 Fill

Lab Sample ID: 480-229710-29

Date Collected: 05/27/25 10:35

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 73.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		230	44	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
2,4-Dimethylphenol	ND		230	48	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
2,4-Dinitrophenol	ND		2200	43	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
2,4-Dinitrotoluene	ND		230	31	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
2,6-Dinitrotoluene	ND		230	32	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
2-Chloronaphthalene	ND		230	42	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
2-Chlorophenol	ND		230	36	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
2-Methylnaphthalene	140	J	230	36	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
2-Methylphenol	ND		230	37	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
2-Nitroaniline	ND		440	38	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
2-Nitrophenol	ND		230	26	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
3,3'-Dichlorobenzidine	ND		440	66	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
3-Nitroaniline	ND		440	32	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
4,6-Dinitro-2-methylphenol	ND		440	50	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
4-Bromophenyl phenyl ether	ND		230	38	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
4-Chloro-3-methylphenol	ND		230	47	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
4-Chloroaniline	ND		230	33	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
4-Chlorophenyl phenyl ether	ND		230	48	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
4-Methylphenol	71	J	440	41	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
4-Nitroaniline	ND		440	33	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
4-Nitrophenol	ND		440	62	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
Acenaphthene	69	J	230	42	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
Acenaphthylene	590		230	44	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
Acetophenone	ND		230	40	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
Anthracene	1200		230	42	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
Atrazine	ND		230	77	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
Benzaldehyde	ND		230	170	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
Benzo[a]anthracene	4300		230	31	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
Benzo[a]pyrene	4100		230	39	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
Benzo[b]fluoranthene	4700		230	30	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
Benzo[g,h,i]perylene	2500		230	40	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
Benzo[k]fluoranthene	2600		230	51	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
Biphenyl	ND		230	43	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
bis (2-chloroisopropyl) ether	ND		230	46	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
Bis(2-chloroethoxy)methane	ND		230	43	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
Bis(2-chloroethyl)ether	ND		230	43	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
Bis(2-ethylhexyl) phthalate	ND		230	49	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
Butyl benzyl phthalate	ND		230	42	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
Caprolactam	ND		230	52	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
Carbazole	130	J	230	45	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
Chrysene	4300		230	55	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
Dibenz(a,h)anthracene	720		230	46	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
Dibenzofuran	160	J	230	40	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
Diethyl phthalate	ND		230	41	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
Dimethyl phthalate	ND		230	44	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
Di-n-butyl phthalate	ND		230	51	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
Di-n-octyl phthalate	ND		230	43	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
Fluoranthene	9200	E	230	41	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1
Fluorene	340		230	42	ug/Kg	✱	05/29/25 13:56	05/30/25 18:53	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-7 Fill

Lab Sample ID: 480-229710-29

Date Collected: 05/27/25 10:35

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 73.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	ND		230	44	ug/Kg	☼	05/29/25 13:56	05/30/25 18:53	1
Hexachlorobutadiene	ND		230	34	ug/Kg	☼	05/29/25 13:56	05/30/25 18:53	1
Hexachlorocyclopentadiene	ND		440	99	ug/Kg	☼	05/29/25 13:56	05/30/25 18:53	1
Hexachloroethane	ND		230	41	ug/Kg	☼	05/29/25 13:56	05/30/25 18:53	1
Indeno[1,2,3-cd]pyrene	2300		230	34	ug/Kg	☼	05/29/25 13:56	05/30/25 18:53	1
Isophorone	ND		230	47	ug/Kg	☼	05/29/25 13:56	05/30/25 18:53	1
Naphthalene	150	J	230	38	ug/Kg	☼	05/29/25 13:56	05/30/25 18:53	1
Nitrobenzene	ND		230	38	ug/Kg	☼	05/29/25 13:56	05/30/25 18:53	1
N-Nitrosodi-n-propylamine	ND		230	51	ug/Kg	☼	05/29/25 13:56	05/30/25 18:53	1
N-Nitrosodiphenylamine	ND		230	38	ug/Kg	☼	05/29/25 13:56	05/30/25 18:53	1
Pentachlorophenol	ND		440	72	ug/Kg	☼	05/29/25 13:56	05/30/25 18:53	1
Phenanthrene	4200		230	43	ug/Kg	☼	05/29/25 13:56	05/30/25 18:53	1
Phenol	ND		230	41	ug/Kg	☼	05/29/25 13:56	05/30/25 18:53	1
Pyrene	8100	E	230	43	ug/Kg	☼	05/29/25 13:56	05/30/25 18:53	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	7700	T J	ug/Kg	☼	1.93	N/A	05/29/25 13:56	05/30/25 18:53	1
Unknown	7000	T J	ug/Kg	☼	3.34	N/A	05/29/25 13:56	05/30/25 18:53	1
Unknown	600	T J	ug/Kg	☼	9.55	N/A	05/29/25 13:56	05/30/25 18:53	1
Hexadecane	640	T J N	ug/Kg	☼	9.83	544-76-3	05/29/25 13:56	05/30/25 18:53	1
Unknown	560	T J	ug/Kg	☼	10.08	N/A	05/29/25 13:56	05/30/25 18:53	1
Heptadecane	600	T J N	ug/Kg	☼	10.35	629-78-7	05/29/25 13:56	05/30/25 18:53	1
Pentadecane, 2,6,10,14-tetramethyl-	680	T J N	ug/Kg	☼	10.37	1921-70-6	05/29/25 13:56	05/30/25 18:53	1
Unknown	830	T J	ug/Kg	☼	10.69	N/A	05/29/25 13:56	05/30/25 18:53	1
Octadecane	520	T J N	ug/Kg	☼	10.82	593-45-3	05/29/25 13:56	05/30/25 18:53	1
Heneicosane	500	T J N	ug/Kg	☼	11.23	629-94-7	05/29/25 13:56	05/30/25 18:53	1
1H-Cyclopropa[1]phenanthrene, 1a,9b-dihydro-	710	T J N	ug/Kg	☼	11.39	949-41-7	05/29/25 13:56	05/30/25 18:53	1
Unknown	1300	T J	ug/Kg	☼	11.47	N/A	05/29/25 13:56	05/30/25 18:53	1
Eicosane	620	T J N	ug/Kg	☼	11.62	112-95-8	05/29/25 13:56	05/30/25 18:53	1
Unknown	890	T J	ug/Kg	☼	11.65	N/A	05/29/25 13:56	05/30/25 18:53	1
11H-Benzo[a]fluorene	730	T J N	ug/Kg	☼	12.51	238-84-6	05/29/25 13:56	05/30/25 18:53	1
1-Octadecene	490	T J N	ug/Kg	☼	13.16	112-88-9	05/29/25 13:56	05/30/25 18:53	1
Unknown	600	T J	ug/Kg	☼	13.70	N/A	05/29/25 13:56	05/30/25 18:53	1
Benzo[e]pyrene	1900	T J N	ug/Kg	☼	14.20	192-97-2	05/29/25 13:56	05/30/25 18:53	1
Perylene	2300	T J N	ug/Kg	☼	14.33	198-55-0	05/29/25 13:56	05/30/25 18:53	1
Hentriacontane	900	T J N	ug/Kg	☼	14.71	630-04-6	05/29/25 13:56	05/30/25 18:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		10 - 140	05/29/25 13:56	05/30/25 18:53	1
2-Fluorobiphenyl (Surr)	79		29 - 120	05/29/25 13:56	05/30/25 18:53	1
2-Fluorophenol (Surr)	67		18 - 120	05/29/25 13:56	05/30/25 18:53	1
Nitrobenzene-d5 (Surr)	69		22 - 120	05/29/25 13:56	05/30/25 18:53	1
Phenol-d5 (Surr)	71		23 - 120	05/29/25 13:56	05/30/25 18:53	1
p-Terphenyl-d14 (Surr)	78		28 - 124	05/29/25 13:56	05/30/25 18:53	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		670	250	ug/Kg	☼	05/29/25 13:56	06/02/25 18:07	5
2,4,5-Trichlorophenol	ND		1100	230	ug/Kg	☼	05/29/25 13:56	06/02/25 18:07	5

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-7 Fill

Lab Sample ID: 480-229710-29

Date Collected: 05/27/25 10:35

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 73.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND		1100	170	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
2,4-Dichlorophenol	ND		1100	220	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
2,4-Dimethylphenol	ND		1100	240	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
2,4-Dinitrophenol	ND		11000	220	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
2,4-Dinitrotoluene	ND		1100	150	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
2,6-Dinitrotoluene	ND		1100	160	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
2-Chloronaphthalene	ND		1100	210	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
2-Chlorophenol	ND		1100	180	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
2-Methylnaphthalene	ND		1100	180	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
2-Methylphenol	ND		1100	180	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
2-Nitroaniline	ND		2200	190	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
2-Nitrophenol	ND		1100	130	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
3,3'-Dichlorobenzidine	ND		2200	330	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
3-Nitroaniline	ND		2200	160	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
4,6-Dinitro-2-methylphenol	ND		2200	250	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
4-Bromophenyl phenyl ether	ND		1100	190	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
4-Chloro-3-methylphenol	ND		1100	230	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
4-Chloroaniline	ND		1100	160	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
4-Chlorophenyl phenyl ether	ND		1100	240	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
4-Methylphenol	ND		2200	200	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
4-Nitroaniline	ND		2200	170	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
4-Nitrophenol	ND		2200	310	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
Acenaphthene	ND		1100	210	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
Acenaphthylene	490	J	1100	220	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
Acetophenone	ND		1100	200	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
Anthracene	1000	J	1100	210	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
Atrazine	ND		1100	380	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
Benzaldehyde	ND		1100	860	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
Benzo[a]anthracene	4300		1100	160	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
Benzo[a]pyrene	3900		1100	190	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
Benzo[b]fluoranthene	5100		1100	150	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
Benzo[g,h,i]perylene	2500		1100	200	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
Benzo[k]fluoranthene	2200		1100	250	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
Biphenyl	ND		1100	210	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
bis (2-chloroisopropyl) ether	ND		1100	230	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
Bis(2-chloroethoxy)methane	ND		1100	220	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
Bis(2-chloroethyl)ether	ND		1100	210	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
Bis(2-ethylhexyl) phthalate	ND		1100	250	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
Butyl benzyl phthalate	ND		1100	210	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
Caprolactam	ND		1100	260	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
Carbazole	ND		1100	220	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
Chrysene	4300		1100	270	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
Dibenz(a,h)anthracene	590	J	1100	230	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
Dibenzofuran	ND		1100	200	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
Diethyl phthalate	ND		1100	200	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
Dimethyl phthalate	ND		1100	220	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
Di-n-butyl phthalate	ND		1100	250	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
Di-n-octyl phthalate	ND		1100	220	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
Fluoranthene	10000		1100	210	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-7 Fill

Lab Sample ID: 480-229710-29

Date Collected: 05/27/25 10:35

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 73.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	300	J	1100	210	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
Hexachlorobenzene	ND		1100	220	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
Hexachlorobutadiene	ND		1100	170	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
Hexachlorocyclopentadiene	ND		2200	500	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
Hexachloroethane	ND		1100	210	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
Indeno[1,2,3-cd]pyrene	2100		1100	170	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
Isophorone	ND		1100	230	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
Naphthalene	ND		1100	190	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
Nitrobenzene	ND		1100	190	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
N-Nitrosodi-n-propylamine	ND		1100	250	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
N-Nitrosodiphenylamine	ND		1100	190	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
Pentachlorophenol	ND		2200	360	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
Phenanthrene	3900		1100	210	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
Phenol	ND		1100	210	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5
Pyrene	7700		1100	220	ug/Kg	☆	05/29/25 13:56	06/02/25 18:07	5

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	7100	T J	ug/Kg	☆	3.47	N/A	05/29/25 13:56	06/02/25 18:07	5
Unknown	4400	T J	ug/Kg	☆	9.59	N/A	05/29/25 13:56	06/02/25 18:07	5
Unknown	29000	T J	ug/Kg	☆	11.99	N/A	05/29/25 13:56	06/02/25 18:07	5
Cyclic octaatomic sulfur	3500	T J N	ug/Kg	☆	12.07	10544-50-0	05/29/25 13:56	06/02/25 18:07	5
Unknown	2200	T J	ug/Kg	☆	14.22	N/A	05/29/25 13:56	06/02/25 18:07	5
Perylene	2200	T J N	ug/Kg	☆	14.36	198-55-0	05/29/25 13:56	06/02/25 18:07	5
Unknown	1900	T J	ug/Kg	☆	15.74	N/A	05/29/25 13:56	06/02/25 18:07	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	61		10 - 140	05/29/25 13:56	06/02/25 18:07	5
2-Fluorobiphenyl (Surr)	83		29 - 120	05/29/25 13:56	06/02/25 18:07	5
2-Fluorophenol (Surr)	57		18 - 120	05/29/25 13:56	06/02/25 18:07	5
Nitrobenzene-d5 (Surr)	63		22 - 120	05/29/25 13:56	06/02/25 18:07	5
Phenol-d5 (Surr)	61		23 - 120	05/29/25 13:56	06/02/25 18:07	5
p-Terphenyl-d14 (Surr)	73		28 - 124	05/29/25 13:56	06/02/25 18:07	5

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	19	J	91	18	ug/Kg	☆	05/29/25 06:53	05/30/25 16:15	20
4,4'-DDE	ND		91	19	ug/Kg	☆	05/29/25 06:53	05/30/25 16:15	20
4,4'-DDT	25	J	91	21	ug/Kg	☆	05/29/25 06:53	05/30/25 16:15	20
beta-BHC	ND		91	16	ug/Kg	☆	05/29/25 06:53	05/30/25 16:15	20
cis-Chlordane	ND		91	45	ug/Kg	☆	05/29/25 06:53	05/30/25 16:15	20
alpha-BHC	ND		91	16	ug/Kg	☆	05/29/25 06:53	05/30/25 16:15	20
Aldrin	ND		91	22	ug/Kg	☆	05/29/25 06:53	05/30/25 16:15	20
delta-BHC	ND		91	17	ug/Kg	☆	05/29/25 06:53	05/30/25 16:15	20
Dieldrin	ND		91	22	ug/Kg	☆	05/29/25 06:53	05/30/25 16:15	20
Endosulfan I	ND		91	17	ug/Kg	☆	05/29/25 06:53	05/30/25 16:15	20
Endosulfan II	ND		91	16	ug/Kg	☆	05/29/25 06:53	05/30/25 16:15	20
Endosulfan sulfate	ND		91	17	ug/Kg	☆	05/29/25 06:53	05/30/25 16:15	20
Endrin	ND		91	18	ug/Kg	☆	05/29/25 06:53	05/30/25 16:15	20
Endrin aldehyde	ND		91	23	ug/Kg	☆	05/29/25 06:53	05/30/25 16:15	20
Endrin ketone	ND		91	22	ug/Kg	☆	05/29/25 06:53	05/30/25 16:15	20

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-7 Fill

Lab Sample ID: 480-229710-29

Date Collected: 05/27/25 10:35

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 73.7

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	ND		91	17	ug/Kg	☆	05/29/25 06:53	05/30/25 16:15	20
trans-Chlordane	ND		91	29	ug/Kg	☆	05/29/25 06:53	05/30/25 16:15	20
Heptachlor	ND		91	20	ug/Kg	☆	05/29/25 06:53	05/30/25 16:15	20
Heptachlor epoxide	ND		91	23	ug/Kg	☆	05/29/25 06:53	05/30/25 16:15	20
Methoxychlor	ND		91	18	ug/Kg	☆	05/29/25 06:53	05/30/25 16:15	20
Toxaphene	ND		910	530	ug/Kg	☆	05/29/25 06:53	05/30/25 16:15	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	104		45 - 120	05/29/25 06:53	05/30/25 16:15	20
DCB Decachlorobiphenyl	220	S1+	45 - 120	05/29/25 06:53	05/30/25 16:15	20
Tetrachloro-m-xylene	117		30 - 124	05/29/25 06:53	05/30/25 16:15	20
Tetrachloro-m-xylene	145	S1+	30 - 124	05/29/25 06:53	05/30/25 16:15	20

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.33	0.064	mg/Kg	☆	05/30/25 13:30	06/02/25 13:24	1
PCB-1221	ND		0.33	0.064	mg/Kg	☆	05/30/25 13:30	06/02/25 13:24	1
PCB-1232	ND		0.33	0.064	mg/Kg	☆	05/30/25 13:30	06/02/25 13:24	1
PCB-1242	ND		0.33	0.064	mg/Kg	☆	05/30/25 13:30	06/02/25 13:24	1
PCB-1248	ND		0.33	0.064	mg/Kg	☆	05/30/25 13:30	06/02/25 13:24	1
PCB-1254	ND		0.33	0.15	mg/Kg	☆	05/30/25 13:30	06/02/25 13:24	1
PCB-1260	ND		0.33	0.15	mg/Kg	☆	05/30/25 13:30	06/02/25 13:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	135		60 - 154	05/30/25 13:30	06/02/25 13:24	1
Tetrachloro-m-xylene	121		60 - 154	05/30/25 13:30	06/02/25 13:24	1
DCB Decachlorobiphenyl	128		65 - 174	05/30/25 13:30	06/02/25 13:24	1
DCB Decachlorobiphenyl	127		65 - 174	05/30/25 13:30	06/02/25 13:24	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.40	0.13	ng/g	☆	06/04/25 14:32	06/05/25 13:25	1
Perfluoropentanoic acid (PFPeA)	ND		0.20	0.050	ng/g	☆	06/04/25 14:32	06/05/25 13:25	1
Perfluorohexanoic acid (PFHxA)	ND		0.20	0.060	ng/g	☆	06/04/25 14:32	06/05/25 13:25	1
Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.070	ng/g	☆	06/04/25 14:32	06/05/25 13:25	1
Perfluorooctanoic acid (PFOA)	ND		0.20	0.060	ng/g	☆	06/04/25 14:32	06/05/25 13:25	1
Perfluorononanoic acid (PFNA)	ND		0.20	0.060	ng/g	☆	06/04/25 14:32	06/05/25 13:25	1
Perfluorodecanoic acid (PFDA)	ND		0.20	0.050	ng/g	☆	06/04/25 14:32	06/05/25 13:25	1
Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.050	ng/g	☆	06/04/25 14:32	06/05/25 13:25	1
Perfluorododecanoic acid (PFDoA)	ND		0.20	0.050	ng/g	☆	06/04/25 14:32	06/05/25 13:25	1
Perfluorotridecanoic acid (PFTriDA)	ND		0.20	0.070	ng/g	☆	06/04/25 14:32	06/05/25 13:25	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.20	0.070	ng/g	☆	06/04/25 14:32	06/05/25 13:25	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.070	ng/g	☆	06/04/25 14:32	06/05/25 13:25	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.20	0.060	ng/g	☆	06/04/25 14:32	06/05/25 13:25	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.050	ng/g	☆	06/04/25 14:32	06/05/25 13:25	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.070	ng/g	☆	06/04/25 14:32	06/05/25 13:25	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.20	0.11	ng/g	☆	06/04/25 14:32	06/05/25 13:25	1
Perfluorononanesulfonic acid (PFNS)	ND		0.20	0.070	ng/g	☆	06/04/25 14:32	06/05/25 13:25	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.050	ng/g	☆	06/04/25 14:32	06/05/25 13:25	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-7 Fill

Lab Sample ID: 480-229710-29

Date Collected: 05/27/25 10:35

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 73.7

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.060	ng/g	✱	06/04/25 14:32	06/05/25 13:25	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.40	0.10	ng/g	✱	06/04/25 14:32	06/05/25 13:25	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.40	0.13	ng/g	✱	06/04/25 14:32	06/05/25 13:25	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.40	0.13	ng/g	✱	06/04/25 14:32	06/05/25 13:25	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.090	ng/g	✱	06/04/25 14:32	06/05/25 13:25	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.20	0.090	ng/g	✱	06/04/25 14:32	06/05/25 13:25	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.20	0.10	ng/g	✱	06/04/25 14:32	06/05/25 13:25	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.20	0.080	ng/g	✱	06/04/25 14:32	06/05/25 13:25	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.20	0.11	ng/g	✱	06/04/25 14:32	06/05/25 13:25	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.0	0.30	ng/g	✱	06/04/25 14:32	06/05/25 13:25	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.0	0.30	ng/g	✱	06/04/25 14:32	06/05/25 13:25	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.20	0.11	ng/g	✱	06/04/25 14:32	06/05/25 13:25	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.20	0.060	ng/g	✱	06/04/25 14:32	06/05/25 13:25	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.20	0.070	ng/g	✱	06/04/25 14:32	06/05/25 13:25	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.20	0.050	ng/g	✱	06/04/25 14:32	06/05/25 13:25	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.20	0.070	ng/g	✱	06/04/25 14:32	06/05/25 13:25	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	ND		0.20	0.090	ng/g	✱	06/04/25 14:32	06/05/25 13:25	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	ND		0.20	0.080	ng/g	✱	06/04/25 14:32	06/05/25 13:25	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.20	0.050	ng/g	✱	06/04/25 14:32	06/05/25 13:25	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.40	0.20	ng/g	✱	06/04/25 14:32	06/05/25 13:25	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		1.0	0.50	ng/g	✱	06/04/25 14:32	06/05/25 13:25	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		1.0	0.40	ng/g	✱	06/04/25 14:32	06/05/25 13:25	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	91.2		8 - 130	06/04/25 14:32	06/05/25 13:25	1
13C5-PFPeA	91.9		35 - 130	06/04/25 14:32	06/05/25 13:25	1
13C5-PFHxA	93.4		40 - 130	06/04/25 14:32	06/05/25 13:25	1
13C4-PFHpA	90.5		40 - 130	06/04/25 14:32	06/05/25 13:25	1
13C8-PFOA	87.3		40 - 130	06/04/25 14:32	06/05/25 13:25	1
13C9-PFNA	82.1		40 - 130	06/04/25 14:32	06/05/25 13:25	1
13C6-PFDA	89.0		40 - 130	06/04/25 14:32	06/05/25 13:25	1
13C7-PFUnA	98.0		40 - 130	06/04/25 14:32	06/05/25 13:25	1
13C2-PFTeDA	75.9		20 - 130	06/04/25 14:32	06/05/25 13:25	1
13C3-PFBS	88.4		40 - 135	06/04/25 14:32	06/05/25 13:25	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-7 Fill

Lab Sample ID: 480-229710-29

Date Collected: 05/27/25 10:35

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 73.7

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3-PFHxS	84.2		40 - 130	06/04/25 14:32	06/05/25 13:25	1
13C8-PFOS	86.3		40 - 130	06/04/25 14:32	06/05/25 13:25	1
13C8-PFOSA	80.1		40 - 130	06/04/25 14:32	06/05/25 13:25	1
d3-NMeFOSAA	86.0		40 - 135	06/04/25 14:32	06/05/25 13:25	1
d5-NEtFOSAA	93.9		40 - 150	06/04/25 14:32	06/05/25 13:25	1
13C2 4:2 FTS	93.8		40 - 165	06/04/25 14:32	06/05/25 13:25	1
13C2 6:2 FTS	97.7		40 - 215	06/04/25 14:32	06/05/25 13:25	1
13C2 8:2 FTS	92.8		40 - 275	06/04/25 14:32	06/05/25 13:25	1
13C3-HFPO-DA	85.8		40 - 130	06/04/25 14:32	06/05/25 13:25	1
D7-NMeFOSE	66.8		20 - 130	06/04/25 14:32	06/05/25 13:25	1
D9-NEtFOSE	62.9		15 - 130	06/04/25 14:32	06/05/25 13:25	1
d5-NEtPFOSA	71.4		10 - 130	06/04/25 14:32	06/05/25 13:25	1
d3-NMePFOSA	75.9		10 - 130	06/04/25 14:32	06/05/25 13:25	1
13C2 PFDoA	88.2		40 - 130	06/04/25 14:32	06/05/25 13:25	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000		13.5	11.6	mg/Kg	✱	05/29/25 15:23	05/30/25 22:51	1
Antimony	53.8		20.3	0.72	mg/Kg	✱	05/29/25 15:23	05/30/25 22:51	1
Arsenic	33.4		2.7	1.2	mg/Kg	✱	05/29/25 15:23	05/30/25 22:51	1
Barium	865		0.68	0.19	mg/Kg	✱	05/29/25 15:23	05/30/25 22:51	1
Beryllium	0.73	^5-	0.27	0.054	mg/Kg	✱	05/29/25 15:23	05/30/25 22:51	1
Cadmium	1.3		0.27	0.095	mg/Kg	✱	05/29/25 15:23	05/30/25 22:51	1
Calcium	5460	^5-	67.5	36.4	mg/Kg	✱	05/29/25 15:23	05/30/25 22:51	1
Chromium	23.5		0.68	0.49	mg/Kg	✱	05/29/25 15:23	05/30/25 22:51	1
Cobalt	8.7		0.68	0.14	mg/Kg	✱	05/29/25 15:23	05/30/25 22:51	1
Copper	62.8		1.4	0.77	mg/Kg	✱	05/29/25 15:23	05/30/25 22:51	1
Iron	33600	^2 ^+	13.5	11.5	mg/Kg	✱	05/29/25 15:23	05/30/25 22:51	1
Lead	4950		1.4	0.62	mg/Kg	✱	05/29/25 15:23	05/30/25 22:51	1
Magnesium	2520		27.0	11.5	mg/Kg	✱	05/29/25 15:23	05/30/25 22:51	1
Manganese	301		1.4	0.38	mg/Kg	✱	05/29/25 15:23	06/04/25 19:59	1
Nickel	25.3	^5-	6.8	0.34	mg/Kg	✱	05/29/25 15:23	05/30/25 22:51	1
Potassium	1910		40.5	32.7	mg/Kg	✱	05/29/25 15:23	05/30/25 22:51	1
Selenium	2.1	J	5.4	1.1	mg/Kg	✱	05/29/25 15:23	05/30/25 22:51	1
Silver	ND	^5-	0.81	0.27	mg/Kg	✱	05/29/25 15:23	06/04/25 19:59	1
Sodium	2000		189	82.8	mg/Kg	✱	05/29/25 15:23	06/04/25 19:59	1
Thallium	ND		8.1	1.0	mg/Kg	✱	05/29/25 15:23	05/30/25 22:51	1
Vanadium	24.1		0.68	0.18	mg/Kg	✱	05/29/25 15:23	05/30/25 22:51	1
Zinc	638		2.7	1.4	mg/Kg	✱	05/29/25 15:23	06/04/25 19:59	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.34		0.026	0.0061	mg/Kg	✱	05/30/25 13:38	05/30/25 16:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		1.3	0.64	mg/Kg	✱	05/31/25 13:30	05/31/25 17:48	1

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Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (64-126)	BFB (72-126)	TOL (71-125)	DBFM (60-140)
480-229710-1	RI-BH-7 Native	102	105	94	103
480-229710-1 MS	RI-BH-7 Native	89	102	94	104
480-229710-1 MSD	RI-BH-7 Native	90	101	93	104
480-229710-2	RI-BH-8 Fill	107	106	91	106
480-229710-3	RI-BH-8 Native	101	106	93	104
480-229710-7	RI-BH-11 Fill	106	107	92	107
480-229710-8	RI-BH-11 Native	105	105	94	105
480-229710-9	RI-BH-12 Fill	104	106	91	104
480-229710-10	RI-BH-13 Fill	107	105	90	79
480-229710-11	RI-BH-14 Fill	107	106	91	108
480-229710-12	RI-BH-15 Fill	104	105	91	104
480-229710-13	RI-BH-15 Native	103	105	90	108
480-229710-14	RI-BH-16 Fill	107	105	91	107
480-229710-15	RI-BH-17 Fill	102	106	90	106
480-229710-16	RI-BH-17 Native	103	104	89	107
480-229710-17	RI-BH-18 Fill	102	103	90	105
480-229710-18	RI-BH-18 Native	106	107	91	110
480-229710-19	RI-BH-1 Fill	118	74 *3	144 S1+ *3	123
480-229710-20	RI-BH-1 Native	103	92	106	109
480-229710-21	RI-BH-2 Fill	103	85	116	106
480-229710-22	RI-BH-2 Native	104	96	107	115
480-229710-23	RI-BH-3 Fill	105	85	116	111
480-229710-24	RI-BH-4 Fill	108	82	122	114
480-229710-25	RI-BH-5 Fill	106	83	122	113
480-229710-26	RI-BH-5 Native	103	95	108	109
480-229710-27	RI-BH-6 Fill	105	96	105	112
480-229710-28	RI-BH-6 Native	104	79	130 S1+	109
480-229710-29	RI-BH-7 Fill	101	90	115	106
LCS 480-747319/1-A	Lab Control Sample	101	103	94	107
LCS 480-747322/1-A	Lab Control Sample	98	100	100	101
LCS 480-747438/1-A	Lab Control Sample	97	103	100	100
MB 480-747319/2-A	Method Blank	101	107	93	109
MB 480-747322/2-A	Method Blank	100	102	98	105
MB 480-747438/2-A	Method Blank	101	102	99	104

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (10-140)	FBP (29-120)	2FP (18-120)	NBZ (22-120)	PHL (23-120)	TPHd14 (28-124)
480-229710-1	RI-BH-7 Native	79	94	89	91	89	90
480-229710-2	RI-BH-8 Fill	70	72	66	58	76	68
480-229710-2 - DL	RI-BH-8 Fill	66	72	61	47	59	60

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Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC

Job ID: 480-229710-1

Project/Site: 166 E 4th Street

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (10-140)	FBP (29-120)	2FP (18-120)	NBZ (22-120)	PHL (23-120)	TPHd14 (28-124)
480-229710-3	RI-BH-8 Native	68	70	67	71	73	73
480-229710-3 MS	RI-BH-8 Native	94	89	88	85	91	95
480-229710-3 MSD	RI-BH-8 Native	88	87	81	87	82	85
480-229710-7	RI-BH-11 Fill	61	62	63	62	61	64
480-229710-8	RI-BH-11 Native	80	84	79	83	81	89
480-229710-9	RI-BH-12 Fill	70	78	69	72	71	73
480-229710-10	RI-BH-13 Fill	19	60	37	58	53	63
480-229710-11	RI-BH-14 Fill	79	85	77	80	79	81
480-229710-12	RI-BH-15 Fill	33	76	41	65	46	49
480-229710-13	RI-BH-15 Native	78	80	74	79	74	75
480-229710-14	RI-BH-16 Fill	87	83	83	86	86	81
480-229710-15	RI-BH-17 Fill	72	77	73	77	75	72
480-229710-16	RI-BH-17 Native	58	65	63	69	68	69
480-229710-17	RI-BH-18 Fill	67	65	63	63	65	68
480-229710-18	RI-BH-18 Native	65	73	67	71	68	69
480-229710-19	RI-BH-1 Fill	41	67	56	63	49	45
480-229710-20	RI-BH-1 Native	75	76	66	70	67	66
480-229710-21	RI-BH-2 Fill	91	80	73	79	75	77
480-229710-22	RI-BH-2 Native	77	81	73	78	73	68
480-229710-23	RI-BH-3 Fill	72	74	70	76	70	67
480-229710-24	RI-BH-4 Fill	31	37	35	27	30	17 S1-
480-229710-25	RI-BH-5 Fill	64	54	45	49	50	62
480-229710-26	RI-BH-5 Native	81	71	60	66	62	78
480-229710-27	RI-BH-6 Fill	67	62	50	55	58	68
480-229710-28	RI-BH-6 Native	60	60	54	58	54	60
480-229710-29	RI-BH-7 Fill	79	79	67	69	71	78
480-229710-29 - DL	RI-BH-7 Fill	61	83	57	63	61	73
LCS 480-747406/2-A	Lab Control Sample	86	89	89	89	95	95
LCS 480-747407/2-A	Lab Control Sample	87	73	57	64	63	88
MB 480-747406/1-A	Method Blank	72	84	77	85	79	90
MB 480-747407/1-A	Method Blank	70	76	65	68	70	91

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1 (45-120)	DCBP2 (45-120)	TCX1 (30-124)	TCX2 (30-124)
480-229710-1	RI-BH-7 Native	62	72	54	51
480-229710-1 MS	RI-BH-7 Native	68	77	59	55
480-229710-1 MSD	RI-BH-7 Native	64	74	55	52
480-229710-2	RI-BH-8 Fill	73	82	52	52
480-229710-3	RI-BH-8 Native	72	81	73	73

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Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC

Job ID: 480-229710-1

Project/Site: 166 E 4th Street

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1 (45-120)	DCBP2 (45-120)	TCX1 (30-124)	TCX2 (30-124)
480-229710-7	RI-BH-11 Fill	70	84	63	62
480-229710-8	RI-BH-11 Native	70	78	69	69
480-229710-9	RI-BH-12 Fill	97	173 S1+	59	54
480-229710-10	RI-BH-13 Fill	0 S1-	0 S1-	114	111
480-229710-11	RI-BH-14 Fill	99	89	78	79
480-229710-12	RI-BH-15 Fill	56	56	50	50
480-229710-13	RI-BH-15 Native	77	80	70	69
480-229710-14	RI-BH-16 Fill	113	128 S1+	65	62
480-229710-15	RI-BH-17 Fill	76	79	62	60
480-229710-16	RI-BH-17 Native	77	82	62	58
480-229710-17	RI-BH-18 Fill	87	86	55	51
480-229710-18	RI-BH-18 Native	65	73	63	62
480-229710-19	RI-BH-1 Fill	75	82	56	53
480-229710-20	RI-BH-1 Native	69	94	52	59
480-229710-21	RI-BH-2 Fill	213 S1+	462 S1+	113	110
480-229710-22	RI-BH-2 Native	78	86	67	81
480-229710-23	RI-BH-3 Fill	63	69	50	65
480-229710-24	RI-BH-4 Fill	76	97	56	56
480-229710-25	RI-BH-5 Fill	70	102	47	48
480-229710-25 MS	RI-BH-5 Fill	99	172 S1+	61	63
480-229710-25 MSD	RI-BH-5 Fill	65	92	38	38
480-229710-26	RI-BH-5 Native	79	110	52	54
480-229710-27	RI-BH-6 Fill	83	98	68	71
480-229710-28	RI-BH-6 Native	75	95	62	67
480-229710-29	RI-BH-7 Fill	104	220 S1+	117	145 S1+
LCS 480-747333/2-A	Lab Control Sample	93	94	76	74
LCS 480-747334/2-A	Lab Control Sample	81	91	67	71
MB 480-747333/1-A	Method Blank	80	82	65	68
MB 480-747334/1-A	Method Blank	100	100	74	74

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TCX1 (60-154)	TCX2 (60-154)	DCBP1 (65-174)	DCBP2 (65-174)
480-229710-1	RI-BH-7 Native	94	102	99	103
480-229710-1 MS	RI-BH-7 Native	123	133	137	139
480-229710-1 MSD	RI-BH-7 Native	127	135	137	143
480-229710-2	RI-BH-8 Fill	102	108	100	106
480-229710-3	RI-BH-8 Native	108	114	109	113
480-229710-7	RI-BH-11 Fill	99	103	95	102
480-229710-8	RI-BH-11 Native	113	115	111	115
480-229710-9	RI-BH-12 Fill	110	115	106	111
480-229710-10	RI-BH-13 Fill	97	104	95	100
480-229710-11	RI-BH-14 Fill	117	122	113	115
480-229710-12	RI-BH-15 Fill	104	109	106	113

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Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC

Job ID: 480-229710-1

Project/Site: 166 E 4th Street

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TCX1 (60-154)	TCX2 (60-154)	DCBP1 (65-174)	DCBP2 (65-174)
480-229710-13	RI-BH-15 Native	105	111	101	107
480-229710-14	RI-BH-16 Fill	102	109	99	105
480-229710-15	RI-BH-17 Fill	98	105	98	102
480-229710-16	RI-BH-17 Native	112	119	126	123
480-229710-17	RI-BH-18 Fill	117	117	120	118
480-229710-18	RI-BH-18 Native	123	126	127	128
480-229710-19	RI-BH-1 Fill	116	121	115	119
480-229710-20	RI-BH-1 Native	104	110	106	109
480-229710-21	RI-BH-2 Fill	107	110	103	106
480-229710-22	RI-BH-2 Native	121	127	113	118
480-229710-23	RI-BH-3 Fill	113	117	106	111
480-229710-24	RI-BH-4 Fill	106	94	117	112
480-229710-25	RI-BH-5 Fill	124	109	115	115
480-229710-26	RI-BH-5 Native	147	131	146	141
480-229710-27	RI-BH-6 Fill	149	132	141	140
480-229710-28	RI-BH-6 Native	117	105	128	125
480-229710-29	RI-BH-7 Fill	135	121	128	127
LCS 480-747458/2-A	Lab Control Sample	148	156 S1+	154	154
LCS 480-747543/2-A	Lab Control Sample	167 S1+	150	170	169
MB 480-747458/1-A	Method Blank	123	125	126	125
MB 480-747543/1-A	Method Blank	156 S1+	139	165	162

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Isotope Dilution Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA (8-130)	PFPeA (35-130)	13C5PHA (40-130)	C4PFHA (40-130)	C8PFOA (40-130)	C9PFNA (40-130)	C6PFDA (40-130)	13C7PUA (40-130)
480-229710-1	RI-BH-7 Native	100	103	104	104	102	95.1	90.7	82.7
480-229710-2	RI-BH-8 Fill	96.4	96.9	93.1	90.8	92.9	84.4	91.6	95.1
480-229710-3	RI-BH-8 Native	108	110	110	98.8	94.3	90.2	90.4	95.6
480-229710-7	RI-BH-11 Fill	89.4	90.6	93.9	94.3	91.4	90.3	85.3	94.2
480-229710-8	RI-BH-11 Native	115	121	115	107	103	98.8	92.0	87.0
480-229710-9	RI-BH-12 Fill	89.0	90.4	87.2	92.0	87.7	80.1	80.3	85.1
480-229710-10	RI-BH-13 Fill	73.9	79.6	77.5	78.2	73.4	68.3	69.5	70.6
480-229710-11	RI-BH-14 Fill	87.5	90.0	92.4	91.3	83.8	83.7	85.4	93.5
480-229710-12	RI-BH-15 Fill	100	100	97.9	96.2	91.3	93.9	84.2	88.1
480-229710-13	RI-BH-15 Native	118	124	121	120	117	111	108	110
480-229710-14	RI-BH-16 Fill	93.6	99.2	97.5	97.7	92.2	92.0	82.8	84.5
480-229710-15	RI-BH-17 Fill	101	110	106	107	104	97.6	94.4	95.0
480-229710-16	RI-BH-17 Native	106	113	108	109	109	109	95.8	97.4
480-229710-17	RI-BH-18 Fill	115	120	117	121	118	111	105	117
480-229710-18	RI-BH-18 Native	117	127	118	117	107	102	108	116
480-229710-19	RI-BH-1 Fill	119	121	116	116	110	108	99.6	106
480-229710-20	RI-BH-1 Native	86.5	87.6	92.0	89.7	89.9	87.1	85.3	96.7
480-229710-21	RI-BH-2 Fill	109	110	109	114	109	101	98.7	101
480-229710-22	RI-BH-2 Native	95.7	98.3	97.0	101	97.3	95.4	92.0	99.0
480-229710-22 - RE	RI-BH-2 Native								
480-229710-23	RI-BH-3 Fill	116	117	116	110	106	103	100	90.5
480-229710-24	RI-BH-4 Fill	61.1	73.0	77.9	85.3	81.5	83.5	88.7	93.2
480-229710-24 - RE	RI-BH-4 Fill								
480-229710-25	RI-BH-5 Fill	113	113	114	115	95.9	87.2	88.8	83.5
480-229710-26	RI-BH-5 Native	85.8	91.8	87.6	92.2	86.2	84.2	78.4	83.2
480-229710-26 - RE	RI-BH-5 Native								
480-229710-27	RI-BH-6 Fill	55.5	76.0	106	104	103	89.6	96.4	100
480-229710-28	RI-BH-6 Native	111	112	116	107	104	98.7	90.7	91.9
480-229710-29	RI-BH-7 Fill	91.2	91.9	93.4	90.5	87.3	82.1	89.0	98.0
LCS 410-651279/2-A	Lab Control Sample	117	114	112	109	108	105	99.2	91.9
LCS 410-651429/2-A	Lab Control Sample	88.1	88.5	87.1	91.7	87.9	84.4	80.9	74.6
LCS 410-652946/2-A	Lab Control Sample	120	117	121	112	107	102	120	105
LCSD 410-651279/3-A	Lab Control Sample Dup	103	98.8	101	97.9	94.6	89.6	81.8	75.3
LLCS 410-651279/4-A	Lab Control Sample	113	109	113	105	102	95.5	88.0	83.0
LLCS 410-651429/3-A	Lab Control Sample	90.1	95.9	94.0	98.1	89.7	87.8	78.3	66.7
LLCS 410-652946/3-A	Lab Control Sample	107	109	105	105	102	100	99.3	94.7
MB 410-651279/1-A	Method Blank	98.5	94.5	97.6	96.6	95.8	88.5	88.7	93.6
MB 410-651429/1-A	Method Blank	90.9	100	94.0	101	93.9	90.8	79.2	75.5
MB 410-652946/1-A	Method Blank	44.2	60.7	81.7	79.8	74.3	81.8	80.1	84.5

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFTDA (20-130)	C3PFBS (40-135)	C3PFHS (40-130)	C8PFOS (40-130)	PFOSA (40-130)	d3NMFOS (40-135)	d5NEFOS (40-150)	M242FTS (40-165)
480-229710-1	RI-BH-7 Native	62.5	98.7	96.6	87.4	84.4	82.6	131	108
480-229710-2	RI-BH-8 Fill	84.7	92.2	87.6	88.0	85.9	90.7	144	104
480-229710-3	RI-BH-8 Native	74.8	96.3	87.9	85.6	88.0	85.1	146	101
480-229710-7	RI-BH-11 Fill	74.8	74.0	82.0	77.2	89.1	87.0	129	113
480-229710-8	RI-BH-11 Native	39.9	107	102	78.9	88.3	86.4	116	121
480-229710-9	RI-BH-12 Fill	61.4	85.7	77.6	70.9	76.8	72.1	111	90.1
480-229710-10	RI-BH-13 Fill	59.2	71.0	66.9	61.4	66.5	62.9	89.0	81.0

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Isotope Dilution Summary

Client: Brydges Engineering in Environment & Energy DPC

Job ID: 480-229710-1

Project/Site: 166 E 4th Street

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFTDA (20-130)	C3PFBS (40-135)	C3PFHS (40-130)	C8PFOS (40-130)	PFOSA (40-130)	d3NMFOS (40-135)	d5NEFOS (40-150)	M242FTS (40-165)
480-229710-11	RI-BH-14 Fill	77.9	86.5	80.5	78.3	79.6	79.4	112	89.2
480-229710-12	RI-BH-15 Fill	63.2	97.2	90.0	81.9	79.8	79.3	111	110
480-229710-13	RI-BH-15 Native	88.1	112	108	94.4	96.9	95.2	129	121
480-229710-14	RI-BH-16 Fill	71.6	90.1	85.6	73.7	78.2	84.9	113	121
480-229710-15	RI-BH-17 Fill	67.4	102	93.0	81.0	88.6	85.9	123	115
480-229710-16	RI-BH-17 Native	69.8	98.8	102	92.4	86.4	93.2	124	116
480-229710-17	RI-BH-18 Fill	89.5	105	103	96.8	107	104	130	135
480-229710-18	RI-BH-18 Native	83.6	112	101	94.4	94.5	88.6	114	111
480-229710-19	RI-BH-1 Fill	58.0	117	102	86.4	99.9	86.4	113	140
480-229710-20	RI-BH-1 Native	72.0	87.3	84.5	81.0	82.4	83.3	118	49.5
480-229710-21	RI-BH-2 Fill	44.2	104	104	96.4	97.7	79.8	86.1	143
480-229710-22	RI-BH-2 Native	97.7	90.7	89.2	76.5	90.4	89.1	80.2	97.6
480-229710-22 - RE	RI-BH-2 Native								
480-229710-23	RI-BH-3 Fill	23.3	115	105	96.7	86.2	73.7	80.1	131
480-229710-24	RI-BH-4 Fill	75.9	73.1	80.1	80.7	85.5	86.3	78.0	104
480-229710-24 - RE	RI-BH-4 Fill								
480-229710-25	RI-BH-5 Fill	64.5	100	90.7	79.9	82.2	93.9	96.1	104
480-229710-26	RI-BH-5 Native	64.0	75.9	74.4	67.5	75.5	73.9	59.6	78.5
480-229710-26 - RE	RI-BH-5 Native								
480-229710-27	RI-BH-6 Fill	61.2	95.3	97.2	90.7	89.4	89.7	99.0	101
480-229710-28	RI-BH-6 Native	36.1	95.7	95.4	79.9	88.2	63.7	65.3	104
480-229710-29	RI-BH-7 Fill	75.9	88.4	84.2	86.3	80.1	86.0	93.9	93.8
LCS 410-651279/2-A	Lab Control Sample	60.6	111	110	96.2	101	96.7	156 *5+	119
LCS 410-651429/2-A	Lab Control Sample	56.1	88.1	82.9	61.1	76.5	80.0	65.5	91.7
LCS 410-652946/2-A	Lab Control Sample	83.8	110	102	101	85.0	104	101	112
LCSD 410-651279/3-A	Lab Control Sample Dup	49.5	93.6	87.0	69.3	81.8	79.8	116	106
LLCS 410-651279/4-A	Lab Control Sample	62.0	102	94.7	78.1	89.6	85.6	145	116
LLCS 410-651429/3-A	Lab Control Sample	38.8	90.2	84.5	52.7	75.6	81.3	68.0	99.0
LLCS 410-652946/3-A	Lab Control Sample	73.4	103	99.2	100	82.2	96.0	98.1	110
MB 410-651279/1-A	Method Blank	85.4	98.6	90.9	85.5	89.3	89.6	149	105
MB 410-651429/1-A	Method Blank	57.9	93.8	83.2	66.9	78.8	78.9	66.9	91.6
MB 410-652946/1-A	Method Blank	64.7	73.9	82.6	85.1	73.1	84.7	94.9	80.3
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M262FTS (40-215)	M282FTS (40-275)	HFPODA (40-130)	NMFM (20-130)	NEFM (15-130)	d5NPFSA (10-130)	d3NMFSA (10-130)	PFDaA (40-130)
480-229710-1	RI-BH-7 Native	117	105	96.5	37.3	27.4	58.5	62.6	71.4
480-229710-2	RI-BH-8 Fill	112	101	92.1	48.5	41.1	66.2	72.3	94.5
480-229710-3	RI-BH-8 Native	112	94.6	103	49.7	38.8	61.4	65.8	93.8
480-229710-7	RI-BH-11 Fill	104	102	87.4	51.7	40.9	62.1	66.7	89.7
480-229710-8	RI-BH-11 Native	124	97.8	114	35.0	27.0	57.4	62.9	71.3
480-229710-9	RI-BH-12 Fill	98.5	82.6	88.4	41.2	34.6	52.1	58.0	78.4
480-229710-10	RI-BH-13 Fill	87.9	75.6	74.6	46.1	37.7	51.0	52.6	68.2
480-229710-11	RI-BH-14 Fill	97.7	90.4	90.0	52.2	42.7	55.7	60.8	88.8
480-229710-12	RI-BH-15 Fill	122	102	97.5	37.2	28.4	52.5	59.9	76.3
480-229710-13	RI-BH-15 Native	143	118	124	51.1	44.5	62.3	71.7	103
480-229710-14	RI-BH-16 Fill	124	101	96.1	51.7	42.2	58.0	61.9	79.0
480-229710-15	RI-BH-17 Fill	120	97.5	108	48.1	40.3	58.0	66.0	88.0
480-229710-16	RI-BH-17 Native	124	108	110	48.2	41.1	56.8	65.7	88.5
480-229710-17	RI-BH-18 Fill	136	127	117	58.2	45.5	76.3	82.3	104
480-229710-18	RI-BH-18 Native	118	105	123	53.6	45.2	69.6	78.0	107

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Isotope Dilution Summary

Client: Brydges Engineering in Environment & Energy DPC

Job ID: 480-229710-1

Project/Site: 166 E 4th Street

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		M262FTS (40-215)	M282FTS (40-275)	HFPODA (40-130)	NMFM (20-130)	NEFM (15-130)	d5NPFSA (10-130)	d3NMFSFA (10-130)	PFD _o A (40-130)
480-229710-19	RI-BH-1 Fill	133	110	119	48.1	38.4	66.6	77.3	90.1
480-229710-20	RI-BH-1 Native	109	92.3	90.9	58.6	49.2	64.8	67.5	89.4
480-229710-21	RI-BH-2 Fill	142	120	104	61.2	46.0	69.4	76.4	85.8
480-229710-22	RI-BH-2 Native	124	93.1	93.9	71.2	65.2	71.3	75.0	98.5
480-229710-22 - RE	RI-BH-2 Native			133 *5+					
480-229710-23	RI-BH-3 Fill	119	101	114	51.7	40.4	51.1	66.1	65.7
480-229710-24	RI-BH-4 Fill	131	105	77.2	61.2	61.0	67.0	71.2	94.3
480-229710-24 - RE	RI-BH-4 Fill			47.8					
480-229710-25	RI-BH-5 Fill	100	102	98.8	60.3	54.5	69.6	75.3	72.1
480-229710-26	RI-BH-5 Native	92.4	68.2	86.3	46.1	43.4	53.1	56.8	74.7
480-229710-26 - RE	RI-BH-5 Native			75.0					
480-229710-27	RI-BH-6 Fill	111	98.8	94.1	71.1	64.5	76.8	80.5	82.9
480-229710-28	RI-BH-6 Native	133	98.8	102	57.6	53.7	71.2	78.5	71.0
480-229710-29	RI-BH-7 Fill	97.7	92.8	85.8	66.8	62.9	71.4	75.9	88.2
LCS 410-651279/2-A	Lab Control Sample	130	113	109	28.5	18.9	67.5	76.5	78.4
LCS 410-651429/2-A	Lab Control Sample	109	80.7	87.9	46.9	38.3	46.9	54.2	59.1
LCS 410-652946/2-A	Lab Control Sample	110	104	111	54.0	44.8	62.2	71.6	92.9
LCSD 410-651279/3-A	Lab Control Sample Dup	106	95.2	96.0	31.3	23.3	53.9	65.6	62.3
LLCS 410-651279/4-A	Lab Control Sample	119	92.1	110	39.4	28.5	58.2	69.1	70.1
LLCS 410-651429/3-A	Lab Control Sample	117	82.4	90.7	40.0	31.0	41.4	49.7	44.2
LLCS 410-652946/3-A	Lab Control Sample	103	100	101	53.8	46.9	61.4	70.6	83.8
MB 410-651279/1-A	Method Blank	120	97.6	92.7	58.7	48.3	65.1	72.0	88.0
MB 410-651429/1-A	Method Blank	117	78.1	94.3	42.9	35.6	40.9	50.4	58.3
MB 410-652946/1-A	Method Blank	88.7	83.9	80.6	52.4	49.0	68.3	72.0	80.0

Surrogate Legend

PFBA = 13C4-PFBA
 PFPeA = 13C5-PFPeA
 13C5PHA = 13C5-PFHxA
 C4PFHA = 13C4-PFHpA
 C8PFOA = 13C8-PFOA
 C9PFNA = 13C9-PFNA
 C6PFDA = 13C6-PFDA
 13C7PUA = 13C7-PFUnA
 PFTDA = 13C2-PFTeDA
 C3PFBS = 13C3-PFBS
 C3PFHS = 13C3-PFHxS
 C8PFOS = 13C8-PFOS
 PFOSA = 13C8-PFOSA
 d3NMFOFOS = d3-NMeFOSAA
 d5NEFOS = d5-NEtFOSAA
 M242FTS = 13C2 4:2 FTS
 M262FTS = 13C2 6:2 FTS
 M282FTS = 13C2 8:2 FTS
 HFPODA = 13C3-HFPO-DA
 NMFM = D7-NMeFOSE
 NEFM = D9-NEtFOSE
 d5NPFSA = d5-NEtPFOSA
 d3NMFSFA = d3-NMePFOSA
 PFD_oA = 13C2 PFD_oA

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-747319/2-A

Matrix: Solid

Analysis Batch: 747320

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747319

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
2-Hexanone	ND		25	2.5	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
Acetone	ND		25	4.2	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
Benzene	ND		5.0	0.25	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
Bromoform	ND		5.0	2.5	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
Bromomethane	ND		5.0	0.45	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
Chloroethane	ND		5.0	1.1	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
Chloroform	ND		5.0	0.31	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
Chloromethane	ND		5.0	0.30	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
Cyclohexane	ND		5.0	0.70	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
Methyl acetate	ND		25	3.0	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
Methylene Chloride	4.67	J	5.0	2.3	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
Toluene	ND		5.0	0.38	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
Trichloroethene	ND		5.0	1.1	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
Xylenes, Total	ND		10	0.84	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		05/28/25 18:17	05/28/25 22:31	1
Styrene	ND		5.0	0.25	ug/Kg		05/28/25 18:17	05/28/25 22:31	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-747319/2-A

Matrix: Solid

Analysis Batch: 747320

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747319

	MB	MB							
Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg			N/A	05/28/25 18:17	05/28/25 22:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		64 - 126				05/28/25 18:17	05/28/25 22:31	1
4-Bromofluorobenzene (Surr)	107		72 - 126				05/28/25 18:17	05/28/25 22:31	1
Toluene-d8 (Surr)	93		71 - 125				05/28/25 18:17	05/28/25 22:31	1
Dibromofluoromethane (Surr)	109		60 - 140				05/28/25 18:17	05/28/25 22:31	1

Lab Sample ID: LCS 480-747319/1-A

Matrix: Solid

Analysis Batch: 747320

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747319

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	55.8		ug/Kg		112	77 - 121
1,1,2,2-Tetrachloroethane	50.0	44.9		ug/Kg		90	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	57.1		ug/Kg		114	60 - 140
1,1,2-Trichloroethane	50.0	47.4		ug/Kg		95	78 - 122
1,1-Dichloroethane	50.0	54.4		ug/Kg		109	73 - 126
1,1-Dichloroethene	50.0	56.5		ug/Kg		113	59 - 125
1,2,4-Trichlorobenzene	50.0	45.5		ug/Kg		91	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	43.7		ug/Kg		87	63 - 124
1,2-Dichlorobenzene	50.0	45.0		ug/Kg		90	75 - 120
1,2-Dichloroethane	50.0	52.1		ug/Kg		104	77 - 122
1,2-Dichloropropane	50.0	54.8		ug/Kg		110	75 - 124
1,3-Dichlorobenzene	50.0	44.9		ug/Kg		90	74 - 120
1,4-Dichlorobenzene	50.0	44.6		ug/Kg		89	73 - 120
2-Butanone (MEK)	250	297		ug/Kg		119	70 - 134
2-Hexanone	250	265		ug/Kg		106	59 - 130
4-Methyl-2-pentanone (MIBK)	250	253		ug/Kg		101	65 - 133
Acetone	250	301		ug/Kg		120	61 - 137
Benzene	50.0	54.7		ug/Kg		109	79 - 127
Bromoform	50.0	51.5		ug/Kg		103	68 - 126
Bromomethane	50.0	50.5		ug/Kg		101	37 - 149
Carbon disulfide	50.0	56.1		ug/Kg		112	64 - 131
Carbon tetrachloride	50.0	56.5		ug/Kg		113	75 - 135
Chlorobenzene	50.0	47.6		ug/Kg		95	76 - 124
Dibromochloromethane	50.0	49.9		ug/Kg		100	76 - 125
Chloroethane	50.0	51.6		ug/Kg		103	69 - 135
Chloroform	50.0	52.6		ug/Kg		105	80 - 120
Chloromethane	50.0	49.2		ug/Kg		98	63 - 127
cis-1,2-Dichloroethene	50.0	54.1		ug/Kg		108	81 - 120
Cyclohexane	50.0	56.8		ug/Kg		114	65 - 120
Bromodichloromethane	50.0	55.3		ug/Kg		111	80 - 122
Dichlorodifluoromethane	50.0	44.0		ug/Kg		88	57 - 142
Ethylbenzene	50.0	47.9		ug/Kg		96	80 - 120
1,2-Dibromoethane	50.0	48.0		ug/Kg		96	78 - 120
Isopropylbenzene	50.0	47.3		ug/Kg		95	72 - 120

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-747319/1-A

Matrix: Solid

Analysis Batch: 747320

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747319

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl acetate	100	112		ug/Kg		112	55 - 136
Methyl tert-butyl ether	50.0	52.4		ug/Kg		105	63 - 125
Methylcyclohexane	50.0	57.0		ug/Kg		114	60 - 140
Methylene Chloride	50.0	60.3		ug/Kg		121	61 - 127
Tetrachloroethene	50.0	50.2		ug/Kg		100	74 - 122
Toluene	50.0	47.7		ug/Kg		95	74 - 128
trans-1,2-Dichloroethene	50.0	55.1		ug/Kg		110	78 - 126
trans-1,3-Dichloropropene	50.0	48.6		ug/Kg		97	73 - 123
Trichloroethene	50.0	56.8		ug/Kg		114	77 - 129
Trichlorofluoromethane	50.0	56.0		ug/Kg		112	65 - 146
Vinyl chloride	50.0	50.2		ug/Kg		100	61 - 133
cis-1,3-Dichloropropene	50.0	55.8		ug/Kg		112	80 - 120
Styrene	50.0	48.3		ug/Kg		97	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		64 - 126
4-Bromofluorobenzene (Surr)	103		72 - 126
Toluene-d8 (Surr)	94		71 - 125
Dibromofluoromethane (Surr)	107		60 - 140

Lab Sample ID: 480-229710-1 MS

Matrix: Solid

Analysis Batch: 747320

Client Sample ID: RI-BH-7 Native

Prep Type: Total/NA

Prep Batch: 747319

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	ND	F1 vs	52.4	35.5	F1 vs	ug/Kg	✱	68	77 - 121
1,1,2,2-Tetrachloroethane	ND	F1 vs	52.4	23.6	F1 vs	ug/Kg	✱	45	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	52.4	35.0	vs	ug/Kg	✱	67	60 - 140
1,1,2-Trichloroethane	ND	F1 vs	52.4	29.6	F1 vs	ug/Kg	✱	57	78 - 122
1,1-Dichloroethane	ND	vs	52.4	43.8	vs	ug/Kg	✱	83	73 - 126
1,1-Dichloroethene	ND	vs	52.4	38.6	vs	ug/Kg	✱	74	59 - 125
1,2,4-Trichlorobenzene	ND	F1 vs	52.4	6.65	F1 vs	ug/Kg	✱	13	64 - 120
1,2-Dibromo-3-Chloropropane	ND	F1 vs	52.4	14.0	F1 vs	ug/Kg	✱	27	63 - 124
1,2-Dichlorobenzene	ND	F1 vs	52.4	15.1	F1 vs	ug/Kg	✱	29	75 - 120
1,2-Dichloroethane	ND	F1 vs	52.4	38.2	F1 vs	ug/Kg	✱	73	77 - 122
1,2-Dichloropropane	ND	vs	52.4	40.3	vs	ug/Kg	✱	77	75 - 124
1,3-Dichlorobenzene	ND	F1 vs	52.4	14.4	F1 vs	ug/Kg	✱	27	74 - 120
1,4-Dichlorobenzene	ND	F1 vs	52.4	14.6	F1 vs	ug/Kg	✱	28	73 - 120
2-Butanone (MEK)	ND	F1 vs	262	179	F1 vs	ug/Kg	✱	68	70 - 134
2-Hexanone	ND	F1 vs	262	134	F1 vs	ug/Kg	✱	51	59 - 130
4-Methyl-2-pentanone (MIBK)	ND	F1 vs	262	148	F1 vs	ug/Kg	✱	57	65 - 133
Acetone	6.7	J vs	262	202	vs	ug/Kg	✱	75	61 - 137
Benzene	ND	F1 vs	52.4	39.7	F1 vs	ug/Kg	✱	76	79 - 127
Bromoform	ND	F1 vs	52.4	22.9	F1 vs	ug/Kg	✱	44	68 - 126
Bromomethane	ND	vs	52.4	44.3	vs	ug/Kg	✱	84	37 - 149
Carbon disulfide	ND	vs	52.4	37.0	vs	ug/Kg	✱	71	64 - 131
Carbon tetrachloride	ND	F1 vs	52.4	30.5	F1 vs	ug/Kg	✱	58	75 - 135
Chlorobenzene	ND	F1 vs	52.4	24.4	F1 vs	ug/Kg	✱	47	76 - 124

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-229710-1 MS

Matrix: Solid

Analysis Batch: 747320

Client Sample ID: RI-BH-7 Native

Prep Type: Total/NA

Prep Batch: 747319

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Dibromochloromethane	ND	F1 vs	52.4	27.5	F1 vs	ug/Kg	✖	52	76 - 125
Chloroethane	ND	vs	52.4	41.4	vs	ug/Kg	✖	79	69 - 135
Chloroform	0.41	J F1 vs	52.4	41.0	F1 vs	ug/Kg	✖	78	80 - 120
Chloromethane	ND	vs	52.4	45.5	vs	ug/Kg	✖	87	63 - 127
cis-1,2-Dichloroethene	ND	F1 vs	52.4	41.4	F1 vs	ug/Kg	✖	79	80 - 120
Cyclohexane	ND	F1 vs	52.4	26.4	F1 vs	ug/Kg	✖	50	65 - 120
Bromodichloromethane	ND	F1 vs	52.4	36.9	F1 vs	ug/Kg	✖	70	80 - 122
Dichlorodifluoromethane	ND	vs	52.4	32.5	vs	ug/Kg	✖	62	57 - 142
Ethylbenzene	ND	F1 vs	52.4	22.4	F1 vs	ug/Kg	✖	43	80 - 120
1,2-Dibromoethane	ND	F1 vs	52.4	25.2	F1 vs	ug/Kg	✖	48	78 - 120
Isopropylbenzene	ND	F1 vs	52.4	18.9	F1 vs	ug/Kg	✖	36	72 - 120
Methyl acetate	ND	vs	105	72.8	vs	ug/Kg	✖	69	55 - 136
Methyl tert-butyl ether	ND	vs	52.4	46.0	vs	ug/Kg	✖	88	63 - 125
Methylcyclohexane	ND	F1 vs	52.4	17.7	F1 vs	ug/Kg	✖	34	60 - 140
Methylene Chloride	5.1	J B vs	52.4	58.7	vs	ug/Kg	✖	102	61 - 127
Tetrachloroethene	ND	F1 vs	52.4	20.8	F1 vs	ug/Kg	✖	40	74 - 122
Toluene	ND	F1 vs	52.4	28.6	F1 vs	ug/Kg	✖	54	74 - 128
trans-1,2-Dichloroethene	ND	F1 vs	52.4	40.2	F1 vs	ug/Kg	✖	77	78 - 126
trans-1,3-Dichloropropene	ND	F1 vs	52.4	24.8	F1 vs	ug/Kg	✖	47	73 - 123
Trichloroethene	ND	F1 vs	52.4	32.1	F1 vs	ug/Kg	✖	61	77 - 129
Trichlorofluoromethane	ND	vs	52.4	37.5	vs	ug/Kg	✖	72	65 - 146
Vinyl chloride	ND	vs	52.4	40.0	vs	ug/Kg	✖	76	61 - 133
cis-1,3-Dichloropropene	ND	F1 vs	52.4	32.4	F1 vs	ug/Kg	✖	62	80 - 120
Styrene	ND	F1 vs	52.4	22.4	F1 vs	ug/Kg	✖	43	80 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		64 - 126
4-Bromofluorobenzene (Surr)	102		72 - 126
Toluene-d8 (Surr)	94		71 - 125
Dibromofluoromethane (Surr)	104		60 - 140

Lab Sample ID: 480-229710-1 MSD

Matrix: Solid

Analysis Batch: 747320

Client Sample ID: RI-BH-7 Native

Prep Type: Total/NA

Prep Batch: 747319

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND	F1 vs	52.1	35.0	F1 vs	ug/Kg	✖	67	77 - 121	1	30
1,1,1,2-Tetrachloroethane	ND	F1 vs	52.1	23.1	F1 vs	ug/Kg	✖	44	80 - 120	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	52.1	31.3	vs	ug/Kg	✖	60	60 - 140	11	30
1,1,2-Trichloroethane	ND	F1 vs	52.1	29.9	F1 vs	ug/Kg	✖	57	78 - 122	1	30
1,1-Dichloroethane	ND	vs	52.1	42.7	vs	ug/Kg	✖	82	73 - 126	2	30
1,1-Dichloroethene	ND	vs	52.1	38.0	vs	ug/Kg	✖	73	59 - 125	2	30
1,2,4-Trichlorobenzene	ND	F1 vs	52.1	6.95	F1 vs	ug/Kg	✖	13	64 - 120	4	30
1,2-Dibromo-3-Chloropropane	ND	F1 vs	52.1	14.6	F1 vs	ug/Kg	✖	28	63 - 124	4	30
1,2-Dichlorobenzene	ND	F1 vs	52.1	14.8	F1 vs	ug/Kg	✖	28	75 - 120	2	30
1,2-Dichloroethane	ND	F1 vs	52.1	39.3	F1 vs	ug/Kg	✖	75	77 - 122	3	30
1,2-Dichloropropane	ND	vs	52.1	40.5	vs	ug/Kg	✖	78	75 - 124	1	30
1,3-Dichlorobenzene	ND	F1 vs	52.1	14.5	F1 vs	ug/Kg	✖	28	74 - 120	1	30

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-229710-1 MSD

Matrix: Solid

Analysis Batch: 747320

Client Sample ID: RI-BH-7 Native

Prep Type: Total/NA

Prep Batch: 747319

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene	ND	F1 vs	52.1	15.2	F1 vs	ug/Kg	✱	29	73 - 120	4	30
2-Butanone (MEK)	ND	F1 vs	261	183	vs	ug/Kg	✱	70	70 - 134	2	30
2-Hexanone	ND	F1 vs	261	129	F1 vs	ug/Kg	✱	50	59 - 130	4	30
4-Methyl-2-pentanone (MIBK)	ND	F1 vs	261	143	F1 vs	ug/Kg	✱	55	65 - 133	3	30
Acetone	6.7	J vs	261	196	vs	ug/Kg	✱	73	61 - 137	3	30
Benzene	ND	F1 vs	52.1	39.2	F1 vs	ug/Kg	✱	75	79 - 127	1	30
Bromoform	ND	F1 vs	52.1	22.8	F1 vs	ug/Kg	✱	44	68 - 126	0	30
Bromomethane	ND	vs	52.1	42.7	vs	ug/Kg	✱	82	37 - 149	4	30
Carbon disulfide	ND	vs	52.1	36.6	vs	ug/Kg	✱	70	64 - 131	1	30
Carbon tetrachloride	ND	F1 vs	52.1	29.9	F1 vs	ug/Kg	✱	57	75 - 135	2	30
Chlorobenzene	ND	F1 vs	52.1	24.4	F1 vs	ug/Kg	✱	47	76 - 124	0	30
Dibromochloromethane	ND	F1 vs	52.1	27.8	F1 vs	ug/Kg	✱	53	76 - 125	1	30
Chloroethane	ND	vs	52.1	39.9	vs	ug/Kg	✱	77	69 - 135	4	30
Chloroform	0.41	J F1 vs	52.1	40.9	F1 vs	ug/Kg	✱	78	80 - 120	0	30
Chloromethane	ND	vs	52.1	43.5	vs	ug/Kg	✱	84	63 - 127	4	30
cis-1,2-Dichloroethene	ND	F1 vs	52.1	40.9	F1 vs	ug/Kg	✱	79	80 - 120	1	30
Cyclohexane	ND	F1 vs	52.1	24.9	F1 vs	ug/Kg	✱	48	65 - 120	6	30
Bromodichloromethane	ND	F1 vs	52.1	37.2	F1 vs	ug/Kg	✱	71	80 - 122	1	30
Dichlorodifluoromethane	ND	vs	52.1	30.7	vs	ug/Kg	✱	59	57 - 142	6	30
Ethylbenzene	ND	F1 vs	52.1	22.1	F1 vs	ug/Kg	✱	42	80 - 120	1	30
1,2-Dibromoethane	ND	F1 vs	52.1	25.9	F1 vs	ug/Kg	✱	50	78 - 120	3	30
Isopropylbenzene	ND	F1 vs	52.1	18.4	F1 vs	ug/Kg	✱	35	72 - 120	3	30
Methyl acetate	ND	vs	104	77.3	vs	ug/Kg	✱	74	55 - 136	6	30
Methyl tert-butyl ether	ND	vs	52.1	44.8	vs	ug/Kg	✱	86	63 - 125	3	30
Methylcyclohexane	ND	F1 vs	52.1	16.9	F1 vs	ug/Kg	✱	33	60 - 140	4	30
Methylene Chloride	5.1	J B vs	52.1	55.8	vs	ug/Kg	✱	97	61 - 127	5	30
Tetrachloroethene	ND	F1 vs	52.1	21.4	F1 vs	ug/Kg	✱	41	74 - 122	3	30
Toluene	ND	F1 vs	52.1	28.1	F1 vs	ug/Kg	✱	54	74 - 128	2	30
trans-1,2-Dichloroethene	ND	F1 vs	52.1	39.8	F1 vs	ug/Kg	✱	76	78 - 126	1	30
trans-1,3-Dichloropropene	ND	F1 vs	52.1	26.4	F1 vs	ug/Kg	✱	51	73 - 123	6	30
Trichloroethene	ND	F1 vs	52.1	33.5	F1 vs	ug/Kg	✱	64	77 - 129	4	30
Trichlorofluoromethane	ND	vs	52.1	35.1	vs	ug/Kg	✱	67	65 - 146	7	30
Vinyl chloride	ND	vs	52.1	37.9	vs	ug/Kg	✱	73	61 - 133	5	30
cis-1,3-Dichloropropene	ND	F1 vs	52.1	34.4	F1 vs	ug/Kg	✱	66	80 - 120	6	30
Styrene	ND	F1 vs	52.1	22.3	F1 vs	ug/Kg	✱	43	80 - 120	1	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		64 - 126
4-Bromofluorobenzene (Surr)	101		72 - 126
Toluene-d8 (Surr)	93		71 - 125
Dibromofluoromethane (Surr)	104		60 - 140

Lab Sample ID: MB 480-747322/2-A

Matrix: Solid

Analysis Batch: 747323

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747322

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		05/28/25 19:24	05/28/25 22:42	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-747322/2-A

Matrix: Solid

Analysis Batch: 747323

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747322

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
2-Hexanone	ND		25	2.5	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
Acetone	ND		25	4.2	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
Benzene	ND		5.0	0.25	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
Bromoform	ND		5.0	2.5	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
Bromomethane	ND		5.0	0.45	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
Chloroethane	ND		5.0	1.1	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
Chloroform	ND		5.0	0.31	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
Chloromethane	ND		5.0	0.30	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
Cyclohexane	ND		5.0	0.70	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
Methyl acetate	ND		25	3.0	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
Methylene Chloride	6.60		5.0	2.3	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
Toluene	ND		5.0	0.38	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
Trichloroethene	ND		5.0	1.1	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
Xylenes, Total	ND		10	0.84	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		05/28/25 19:24	05/28/25 22:42	1
Styrene	ND		5.0	0.25	ug/Kg		05/28/25 19:24	05/28/25 22:42	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-747322/2-A

Matrix: Solid

Analysis Batch: 747323

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747322

	MB	MB							
Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg			N/A	05/28/25 19:24	05/28/25 22:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		64 - 126				05/28/25 19:24	05/28/25 22:42	1
4-Bromofluorobenzene (Surr)	102		72 - 126				05/28/25 19:24	05/28/25 22:42	1
Toluene-d8 (Surr)	98		71 - 125				05/28/25 19:24	05/28/25 22:42	1
Dibromofluoromethane (Surr)	105		60 - 140				05/28/25 19:24	05/28/25 22:42	1

Lab Sample ID: LCS 480-747322/1-A

Matrix: Solid

Analysis Batch: 747323

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747322

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	52.4		ug/Kg		105	77 - 121
1,1,1,2-Tetrachloroethane	50.0	51.8		ug/Kg		104	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.2		ug/Kg		94	60 - 140
1,1,2-Trichloroethane	50.0	52.4		ug/Kg		105	78 - 122
1,1-Dichloroethane	50.0	53.3		ug/Kg		107	73 - 126
1,1-Dichloroethene	50.0	52.5		ug/Kg		105	59 - 125
1,2,4-Trichlorobenzene	50.0	50.4		ug/Kg		101	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	52.6		ug/Kg		105	63 - 124
1,2-Dichlorobenzene	50.0	50.4		ug/Kg		101	75 - 120
1,2-Dichloroethane	50.0	50.3		ug/Kg		101	77 - 122
1,2-Dichloropropane	50.0	54.5		ug/Kg		109	75 - 124
1,3-Dichlorobenzene	50.0	51.0		ug/Kg		102	74 - 120
1,4-Dichlorobenzene	50.0	51.3		ug/Kg		103	73 - 120
2-Butanone (MEK)	250	289		ug/Kg		116	70 - 134
2-Hexanone	250	269		ug/Kg		108	59 - 130
4-Methyl-2-pentanone (MIBK)	250	258		ug/Kg		103	65 - 133
Acetone	250	272		ug/Kg		109	61 - 137
Benzene	50.0	53.7		ug/Kg		107	79 - 127
Bromoform	50.0	59.8		ug/Kg		120	68 - 126
Bromomethane	50.0	48.7		ug/Kg		97	37 - 149
Carbon disulfide	50.0	52.0		ug/Kg		104	64 - 131
Carbon tetrachloride	50.0	54.6		ug/Kg		109	75 - 135
Chlorobenzene	50.0	52.3		ug/Kg		105	76 - 124
Dibromochloromethane	50.0	57.5		ug/Kg		115	76 - 125
Chloroethane	50.0	49.7		ug/Kg		99	69 - 135
Chloroform	50.0	50.2		ug/Kg		100	80 - 120
Chloromethane	50.0	46.2		ug/Kg		92	63 - 127
cis-1,2-Dichloroethene	50.0	51.9		ug/Kg		104	81 - 120
Cyclohexane	50.0	52.1		ug/Kg		104	65 - 120
Bromodichloromethane	50.0	56.2		ug/Kg		112	80 - 122
Dichlorodifluoromethane	50.0	38.6		ug/Kg		77	57 - 142
Ethylbenzene	50.0	52.1		ug/Kg		104	80 - 120
1,2-Dibromoethane	50.0	55.3		ug/Kg		111	78 - 120
Isopropylbenzene	50.0	53.8		ug/Kg		108	72 - 120

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-747322/1-A

Matrix: Solid

Analysis Batch: 747323

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747322

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl acetate	100	106		ug/Kg		106	55 - 136
Methyl tert-butyl ether	50.0	49.5		ug/Kg		99	63 - 125
Methylcyclohexane	50.0	53.8		ug/Kg		108	60 - 140
Methylene Chloride	50.0	55.9		ug/Kg		112	61 - 127
Tetrachloroethene	50.0	53.3		ug/Kg		107	74 - 122
Toluene	50.0	53.5		ug/Kg		107	74 - 128
trans-1,2-Dichloroethene	50.0	53.1		ug/Kg		106	78 - 126
trans-1,3-Dichloropropene	50.0	57.0		ug/Kg		114	73 - 123
Trichloroethene	50.0	54.3		ug/Kg		109	77 - 129
Trichlorofluoromethane	50.0	47.9		ug/Kg		96	65 - 146
Vinyl chloride	50.0	47.1		ug/Kg		94	61 - 133
cis-1,3-Dichloropropene	50.0	56.3		ug/Kg		113	80 - 120
Styrene	50.0	52.1		ug/Kg		104	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		64 - 126
4-Bromofluorobenzene (Surr)	100		72 - 126
Toluene-d8 (Surr)	100		71 - 125
Dibromofluoromethane (Surr)	101		60 - 140

Lab Sample ID: MB 480-747438/2-A

Matrix: Solid

Analysis Batch: 747441

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747438

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
2-Hexanone	ND		25	2.5	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
Acetone	ND		25	4.2	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
Benzene	ND		5.0	0.25	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
Bromoform	ND		5.0	2.5	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
Bromomethane	ND		5.0	0.45	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		05/29/25 18:01	05/29/25 21:31	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-747438/2-A

Matrix: Solid

Analysis Batch: 747441

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747438

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	ND		5.0	0.64	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
Chloroethane	ND		5.0	1.1	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
Chloroform	ND		5.0	0.31	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
Chloromethane	ND		5.0	0.30	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
Cyclohexane	ND		5.0	0.70	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
Methyl acetate	ND		25	3.0	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
Toluene	ND		5.0	0.38	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
Trichloroethene	ND		5.0	1.1	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
Xylenes, Total	ND		10	0.84	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		05/29/25 18:01	05/29/25 21:31	1
Styrene	ND		5.0	0.25	ug/Kg		05/29/25 18:01	05/29/25 21:31	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg			N/A	05/29/25 18:01	05/29/25 21:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		64 - 126	05/29/25 18:01	05/29/25 21:31	1
4-Bromofluorobenzene (Surr)	102		72 - 126	05/29/25 18:01	05/29/25 21:31	1
Toluene-d8 (Surr)	99		71 - 125	05/29/25 18:01	05/29/25 21:31	1
Dibromofluoromethane (Surr)	104		60 - 140	05/29/25 18:01	05/29/25 21:31	1

Lab Sample ID: LCS 480-747438/1-A

Matrix: Solid

Analysis Batch: 747441

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747438

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	52.2		ug/Kg		104	77 - 121
1,1,1,2,2-Tetrachloroethane	50.0	49.6		ug/Kg		99	80 - 120
1,1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.3		ug/Kg		97	60 - 140
1,1,1,2-Trichloroethane	50.0	50.7		ug/Kg		101	78 - 122
1,1-Dichloroethane	50.0	52.8		ug/Kg		106	73 - 126
1,1-Dichloroethene	50.0	51.5		ug/Kg		103	59 - 125
1,2,4-Trichlorobenzene	50.0	50.5		ug/Kg		101	64 - 120

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-747438/1-A

Matrix: Solid

Analysis Batch: 747441

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747438

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-Chloropropane	50.0	49.0		ug/Kg		98	63 - 124
1,2-Dichlorobenzene	50.0	49.1		ug/Kg		98	75 - 120
1,2-Dichloroethane	50.0	47.9		ug/Kg		96	77 - 122
1,2-Dichloropropane	50.0	53.1		ug/Kg		106	75 - 124
1,3-Dichlorobenzene	50.0	49.7		ug/Kg		99	74 - 120
1,4-Dichlorobenzene	50.0	49.5		ug/Kg		99	73 - 120
2-Butanone (MEK)	250	286		ug/Kg		114	70 - 134
2-Hexanone	250	269		ug/Kg		108	59 - 130
4-Methyl-2-pentanone (MIBK)	250	261		ug/Kg		104	65 - 133
Acetone	250	286		ug/Kg		115	61 - 137
Benzene	50.0	52.2		ug/Kg		104	79 - 127
Bromoform	50.0	55.3		ug/Kg		111	68 - 126
Bromomethane	50.0	48.2		ug/Kg		96	37 - 149
Carbon disulfide	50.0	50.8		ug/Kg		102	64 - 131
Carbon tetrachloride	50.0	52.9		ug/Kg		106	75 - 135
Chlorobenzene	50.0	51.3		ug/Kg		103	76 - 124
Dibromochloromethane	50.0	53.6		ug/Kg		107	76 - 125
Chloroethane	50.0	48.4		ug/Kg		97	69 - 135
Chloroform	50.0	49.5		ug/Kg		99	80 - 120
Chloromethane	50.0	45.3		ug/Kg		91	63 - 127
cis-1,2-Dichloroethene	50.0	51.1		ug/Kg		102	81 - 120
Cyclohexane	50.0	54.6		ug/Kg		109	65 - 120
Bromodichloromethane	50.0	51.3		ug/Kg		103	80 - 122
Dichlorodifluoromethane	50.0	37.0		ug/Kg		74	57 - 142
Ethylbenzene	50.0	51.4		ug/Kg		103	80 - 120
1,2-Dibromoethane	50.0	52.7		ug/Kg		105	78 - 120
Isopropylbenzene	50.0	51.1		ug/Kg		102	72 - 120
Methyl acetate	100	110		ug/Kg		110	55 - 136
Methyl tert-butyl ether	50.0	49.2		ug/Kg		98	63 - 125
Methylcyclohexane	50.0	53.6		ug/Kg		107	60 - 140
Methylene Chloride	50.0	53.0		ug/Kg		106	61 - 127
Tetrachloroethene	50.0	51.6		ug/Kg		103	74 - 122
Toluene	50.0	51.6		ug/Kg		103	74 - 128
trans-1,2-Dichloroethene	50.0	51.5		ug/Kg		103	78 - 126
trans-1,3-Dichloropropene	50.0	52.6		ug/Kg		105	73 - 123
Trichloroethene	50.0	51.8		ug/Kg		104	77 - 129
Trichlorofluoromethane	50.0	46.4		ug/Kg		93	65 - 146
Vinyl chloride	50.0	46.6		ug/Kg		93	61 - 133
cis-1,3-Dichloropropene	50.0	52.4		ug/Kg		105	80 - 120
Styrene	50.0	51.8		ug/Kg		104	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		64 - 126
4-Bromofluorobenzene (Surr)	103		72 - 126
Toluene-d8 (Surr)	100		71 - 125
Dibromofluoromethane (Surr)	100		60 - 140

QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-747406/1-A

Matrix: Solid

Analysis Batch: 747476

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747406

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		100	37	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
2,4,5-Trichlorophenol	ND		170	34	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
2,4,6-Trichlorophenol	ND		170	26	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
2,4-Dichlorophenol	ND		170	33	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
2,4-Dimethylphenol	ND		170	36	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
2,4-Dinitrophenol	ND		1700	32	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
2,4-Dinitrotoluene	ND		170	23	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
2,6-Dinitrotoluene	ND		170	24	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
2-Chloronaphthalene	ND		170	32	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
2-Chlorophenol	ND		170	27	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
2-Methylnaphthalene	ND		170	27	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
2-Methylphenol	ND		170	27	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
2-Nitroaniline	ND		330	29	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
2-Nitrophenol	ND		170	19	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
3,3'-Dichlorobenzidine	ND		330	50	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
3-Nitroaniline	ND		330	24	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
4,6-Dinitro-2-methylphenol	ND		330	37	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
4-Bromophenyl phenyl ether	ND		170	29	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
4-Chloro-3-methylphenol	ND		170	35	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
4-Chloroaniline	ND		170	24	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
4-Chlorophenyl phenyl ether	ND		170	36	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
4-Methylphenol	ND		330	30	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
4-Nitroaniline	ND		330	25	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
4-Nitrophenol	ND		330	46	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
Acenaphthene	ND		170	31	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
Acenaphthylene	ND		170	33	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
Acetophenone	ND		170	30	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
Anthracene	ND		170	31	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
Atrazine	ND		170	57	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
Benzaldehyde	ND		170	130	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
Benzo[a]anthracene	ND		170	23	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
Benzo[a]pyrene	ND		170	29	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
Benzo[b]fluoranthene	ND		170	23	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
Benzo[g,h,i]perylene	ND		170	30	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
Benzo[k]fluoranthene	ND		170	38	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
Biphenyl	ND		170	32	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
bis (2-chloroisopropyl) ether	ND		170	35	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
Bis(2-chloroethoxy)methane	ND		170	32	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
Bis(2-chloroethyl)ether	ND		170	32	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
Bis(2-ethylhexyl) phthalate	ND		170	37	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
Butyl benzyl phthalate	ND		170	31	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
Caprolactam	ND		170	39	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
Carbazole	ND		170	33	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
Chrysene	ND		170	41	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
Dibenz(a,h)anthracene	ND		170	34	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
Dibenzofuran	ND		170	30	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
Diethyl phthalate	ND		170	30	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
Dimethyl phthalate	ND		170	33	ug/Kg		05/29/25 13:50	05/30/25 11:36	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-747406/1-A

Matrix: Solid

Analysis Batch: 747476

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747406

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	ND		170	38	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
Di-n-octyl phthalate	ND		170	32	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
Fluoranthene	ND		170	31	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
Fluorene	ND		170	31	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
Hexachlorobenzene	ND		170	33	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
Hexachlorobutadiene	ND		170	25	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
Hexachlorocyclopentadiene	ND		330	74	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
Hexachloroethane	ND		170	31	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
Indeno[1,2,3-cd]pyrene	ND		170	25	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
Isophorone	ND		170	35	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
Naphthalene	ND		170	28	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
Nitrobenzene	ND		170	28	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
N-Nitrosodi-n-propylamine	ND		170	38	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
N-Nitrosodiphenylamine	ND		170	28	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
Pentachlorophenol	ND		330	54	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
Phenanthrene	ND		170	32	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
Phenol	ND		170	31	ug/Kg		05/29/25 13:50	05/30/25 11:36	1
Pyrene	ND		170	32	ug/Kg		05/29/25 13:50	05/30/25 11:36	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
3-Penten-2-one, 4-methyl-	851	T J N	ug/Kg		2.80	141-79-7	05/29/25 13:50	05/30/25 11:36	1
Unknown	24700	T J	ug/Kg		3.50	N/A	05/29/25 13:50	05/30/25 11:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	72		10 - 140	05/29/25 13:50	05/30/25 11:36	1
2-Fluorobiphenyl (Surr)	84		29 - 120	05/29/25 13:50	05/30/25 11:36	1
2-Fluorophenol (Surr)	77		18 - 120	05/29/25 13:50	05/30/25 11:36	1
Nitrobenzene-d5 (Surr)	85		22 - 120	05/29/25 13:50	05/30/25 11:36	1
Phenol-d5 (Surr)	79		23 - 120	05/29/25 13:50	05/30/25 11:36	1
p-Terphenyl-d14 (Surr)	90		28 - 124	05/29/25 13:50	05/30/25 11:36	1

Lab Sample ID: LCS 480-747406/2-A

Matrix: Solid

Analysis Batch: 747476

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747406

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	2670	1260		ug/Kg		47	13 - 120
2,4,5-Trichlorophenol	2670	2420		ug/Kg		91	58 - 120
2,4,6-Trichlorophenol	2670	2450		ug/Kg		92	60 - 120
2,4-Dichlorophenol	2670	2310		ug/Kg		86	53 - 120
2,4-Dimethylphenol	2670	2320		ug/Kg		87	55 - 120
2,4-Dinitrophenol	5330	4090		ug/Kg		77	15 - 120
2,4-Dinitrotoluene	2670	2620		ug/Kg		98	64 - 127
2,6-Dinitrotoluene	2670	2560		ug/Kg		96	65 - 123
2-Chloronaphthalene	2670	2440		ug/Kg		91	57 - 120
2-Chlorophenol	2670	2280		ug/Kg		85	46 - 120
2-Methylnaphthalene	2670	2330		ug/Kg		87	55 - 120
2-Methylphenol	2670	2440		ug/Kg		91	51 - 120

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-747406/2-A

Matrix: Solid

Analysis Batch: 747476

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747406

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Nitroaniline	2670	2460		ug/Kg		92	58 - 129
2-Nitrophenol	2670	2280		ug/Kg		86	46 - 120
3,3'-Dichlorobenzidine	2670	1830		ug/Kg		69	10 - 120
3-Nitroaniline	2670	1560		ug/Kg		58	51 - 120
4,6-Dinitro-2-methylphenol	5330	5000		ug/Kg		94	40 - 123
4-Bromophenyl phenyl ether	2670	2560		ug/Kg		96	69 - 126
4-Chloro-3-methylphenol	2670	2360		ug/Kg		88	55 - 120
4-Chloroaniline	2670	1450		ug/Kg		55	48 - 120
4-Chlorophenyl phenyl ether	2670	2300		ug/Kg		86	66 - 120
4-Methylphenol	2670	2510		ug/Kg		94	51 - 120
4-Nitroaniline	2670	2150		ug/Kg		80	54 - 126
4-Nitrophenol	5330	4560		ug/Kg		86	41 - 145
Acenaphthene	2670	2520		ug/Kg		95	63 - 120
Acenaphthylene	2670	2420		ug/Kg		91	59 - 123
Acetophenone	2670	2340		ug/Kg		88	49 - 120
Anthracene	2670	2510		ug/Kg		94	70 - 125
Atrazine	2670	1790		ug/Kg		67	48 - 136
Benzaldehyde	2670	1580		ug/Kg		59	10 - 131
Benzo[a]anthracene	2670	2420		ug/Kg		91	73 - 128
Benzo[a]pyrene	2670	2420		ug/Kg		91	63 - 129
Benzo[b]fluoranthene	2670	2380		ug/Kg		89	68 - 133
Benzo[g,h,i]perylene	2670	2630		ug/Kg		98	66 - 135
Benzo[k]fluoranthene	2670	2590		ug/Kg		97	70 - 133
Biphenyl	2670	2460		ug/Kg		92	59 - 120
bis (2-chloroisopropyl) ether	2670	2450		ug/Kg		92	34 - 120
Bis(2-chloroethoxy)methane	2670	2410		ug/Kg		90	49 - 120
Bis(2-chloroethyl)ether	2670	2460		ug/Kg		92	40 - 120
Bis(2-ethylhexyl) phthalate	2670	2790		ug/Kg		105	65 - 140
Butyl benzyl phthalate	2670	2500		ug/Kg		94	66 - 140
Caprolactam	2670	1630		ug/Kg		61	47 - 120
Carbazole	2670	2560		ug/Kg		96	67 - 127
Chrysene	2670	2400		ug/Kg		90	73 - 127
Dibenz(a,h)anthracene	2670	2560		ug/Kg		96	68 - 133
Dibenzofuran	2670	2410		ug/Kg		90	64 - 120
Diethyl phthalate	2670	2470		ug/Kg		93	62 - 133
Dimethyl phthalate	2670	2420		ug/Kg		91	66 - 125
Di-n-butyl phthalate	2670	2510		ug/Kg		94	65 - 138
Di-n-octyl phthalate	2670	2550		ug/Kg		96	65 - 140
Fluoranthene	2670	2540		ug/Kg		95	66 - 129
Fluorene	2670	2500		ug/Kg		94	66 - 120
Hexachlorobenzene	2670	2460		ug/Kg		92	68 - 129
Hexachlorobutadiene	2670	2130		ug/Kg		80	43 - 122
Hexachlorocyclopentadiene	2670	2160		ug/Kg		81	30 - 125
Hexachloroethane	2670	2310		ug/Kg		86	36 - 120
Indeno[1,2,3-cd]pyrene	2670	2510		ug/Kg		94	68 - 133
Isophorone	2670	2420		ug/Kg		91	54 - 120
Naphthalene	2670	2260		ug/Kg		85	49 - 120
Nitrobenzene	2670	2210		ug/Kg		83	46 - 120
N-Nitrosodi-n-propylamine	2670	2460		ug/Kg		92	48 - 120

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-747406/2-A

Matrix: Solid

Analysis Batch: 747476

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747406

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
N-Nitrosodiphenylamine	2670	2530		ug/Kg		95	69 - 126
Pentachlorophenol	5330	4390		ug/Kg		82	10 - 124
Phenanthrene	2670	2520		ug/Kg		94	69 - 124
Phenol	2670	2320		ug/Kg		87	46 - 120
Pyrene	2670	2600		ug/Kg		97	70 - 141

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	86		10 - 140
2-Fluorobiphenyl (Surr)	89		29 - 120
2-Fluorophenol (Surr)	89		18 - 120
Nitrobenzene-d5 (Surr)	89		22 - 120
Phenol-d5 (Surr)	95		23 - 120
p-Terphenyl-d14 (Surr)	95		28 - 124

Lab Sample ID: 480-229710-3 MS

Matrix: Solid

Analysis Batch: 747476

Client Sample ID: RI-BH-8 Native

Prep Type: Total/NA

Prep Batch: 747406

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	ND		3260	1630		ug/Kg	✱	50	13 - 120
2,4,5-Trichlorophenol	ND		3260	2980		ug/Kg	✱	91	46 - 120
2,4,6-Trichlorophenol	ND		3260	2820		ug/Kg	✱	86	41 - 123
2,4-Dichlorophenol	ND		3260	2900		ug/Kg	✱	89	45 - 120
2,4-Dimethylphenol	ND		3260	2830		ug/Kg	✱	87	52 - 120
2,4-Dinitrophenol	ND		6530	3000		ug/Kg	✱	46	41 - 146
2,4-Dinitrotoluene	ND		3260	3110		ug/Kg	✱	95	63 - 125
2,6-Dinitrotoluene	ND		3260	2950		ug/Kg	✱	90	66 - 120
2-Chloronaphthalene	ND		3260	2830		ug/Kg	✱	87	57 - 120
2-Chlorophenol	ND		3260	2840		ug/Kg	✱	87	43 - 120
2-Methylnaphthalene	ND		3260	2730		ug/Kg	✱	84	55 - 120
2-Methylphenol	ND		3260	2990		ug/Kg	✱	92	48 - 120
2-Nitroaniline	ND		3260	2950		ug/Kg	✱	90	61 - 120
2-Nitrophenol	ND		3260	2820		ug/Kg	✱	87	37 - 120
3,3'-Dichlorobenzidine	ND		3260	2490		ug/Kg	✱	76	37 - 126
3-Nitroaniline	ND		3260	1650		ug/Kg	✱	51	48 - 120
4,6-Dinitro-2-methylphenol	ND		6530	5080		ug/Kg	✱	78	23 - 149
4-Bromophenyl phenyl ether	ND		3260	3080		ug/Kg	✱	94	58 - 120
4-Chloro-3-methylphenol	ND		3260	2790		ug/Kg	✱	85	49 - 125
4-Chloroaniline	ND	F2	3260	1330		ug/Kg	✱	41	38 - 120
4-Chlorophenyl phenyl ether	ND		3260	2930		ug/Kg	✱	90	63 - 124
4-Methylphenol	ND		3260	2850		ug/Kg	✱	87	50 - 120
4-Nitroaniline	ND		3260	2580		ug/Kg	✱	79	47 - 120
4-Nitrophenol	ND		6530	5580		ug/Kg	✱	86	31 - 147
Acenaphthene	ND		3260	2950		ug/Kg	✱	90	60 - 120
Acenaphthylene	ND		3260	2920		ug/Kg	✱	89	58 - 121
Acetophenone	ND		3260	2830		ug/Kg	✱	87	47 - 120
Anthracene	ND		3260	2910		ug/Kg	✱	89	62 - 120
Atrazine	ND		3260	2200		ug/Kg	✱	67	60 - 150

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-229710-3 MS

Matrix: Solid

Analysis Batch: 747476

Client Sample ID: RI-BH-8 Native

Prep Type: Total/NA

Prep Batch: 747406

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzaldehyde	ND		3260	2190		ug/Kg	✱	67	10 - 150
Benzo[a]anthracene	ND		3260	2890		ug/Kg	✱	88	65 - 120
Benzo[a]pyrene	ND		3260	3180		ug/Kg	✱	97	64 - 120
Benzo[b]fluoranthene	ND		3260	2920		ug/Kg	✱	89	10 - 150
Benzo[g,h,i]perylene	ND		3260	3400		ug/Kg	✱	104	45 - 145
Benzo[k]fluoranthene	ND		3260	3320		ug/Kg	✱	102	23 - 150
Biphenyl	ND		3260	2940		ug/Kg	✱	90	58 - 120
bis (2-chloroisopropyl) ether	ND		3260	2900		ug/Kg	✱	89	31 - 120
Bis(2-chloroethoxy)methane	ND		3260	2710		ug/Kg	✱	83	52 - 120
Bis(2-chloroethyl)ether	ND		3260	2880		ug/Kg	✱	88	45 - 120
Bis(2-ethylhexyl) phthalate	ND		3260	3230		ug/Kg	✱	99	61 - 133
Butyl benzyl phthalate	ND		3260	3050		ug/Kg	✱	94	61 - 120
Caprolactam	ND		3260	1890		ug/Kg	✱	58	37 - 133
Carbazole	ND		3260	3210		ug/Kg	✱	98	59 - 120
Chrysene	ND		3260	2900		ug/Kg	✱	89	64 - 120
Dibenz(a,h)anthracene	ND		3260	3210		ug/Kg	✱	98	54 - 132
Dibenzofuran	ND		3260	2850		ug/Kg	✱	87	62 - 120
Diethyl phthalate	ND		3260	2880		ug/Kg	✱	88	66 - 120
Dimethyl phthalate	ND		3260	2930		ug/Kg	✱	90	65 - 124
Di-n-butyl phthalate	ND		3260	2950		ug/Kg	✱	90	58 - 130
Di-n-octyl phthalate	ND		3260	3190		ug/Kg	✱	98	57 - 133
Fluoranthene	ND		3260	2950		ug/Kg	✱	90	62 - 120
Fluorene	ND		3260	3080		ug/Kg	✱	94	63 - 120
Hexachlorobenzene	ND		3260	2870		ug/Kg	✱	88	60 - 120
Hexachlorobutadiene	ND		3260	2520		ug/Kg	✱	77	45 - 120
Hexachlorocyclopentadiene	ND		3260	2040		ug/Kg	✱	63	31 - 120
Hexachloroethane	ND		3260	2670		ug/Kg	✱	82	21 - 120
Indeno[1,2,3-cd]pyrene	ND		3260	3180		ug/Kg	✱	97	56 - 134
Isophorone	ND		3260	2860		ug/Kg	✱	87	56 - 120
Naphthalene	ND		3260	2850		ug/Kg	✱	87	46 - 120
Nitrobenzene	ND		3260	2700		ug/Kg	✱	83	49 - 120
N-Nitrosodi-n-propylamine	ND		3260	3020		ug/Kg	✱	92	46 - 120
N-Nitrosodiphenylamine	ND		3260	2970		ug/Kg	✱	91	20 - 128
Pentachlorophenol	ND		6530	5740		ug/Kg	✱	88	10 - 136
Phenanthrene	ND		3260	2970		ug/Kg	✱	91	60 - 122
Phenol	ND		3260	2800		ug/Kg	✱	86	50 - 120
Pyrene	ND		3260	3030		ug/Kg	✱	93	61 - 133

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	94		10 - 140
2-Fluorobiphenyl (Surr)	89		29 - 120
2-Fluorophenol (Surr)	88		18 - 120
Nitrobenzene-d5 (Surr)	85		22 - 120
Phenol-d5 (Surr)	91		23 - 120
p-Terphenyl-d14 (Surr)	95		28 - 124

QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-229710-3 MSD

Matrix: Solid

Analysis Batch: 747476

Client Sample ID: RI-BH-8 Native

Prep Type: Total/NA

Prep Batch: 747406

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	ND		3270	1450		ug/Kg	✱	44	13 - 120	11	50
2,4,5-Trichlorophenol	ND		3270	2860		ug/Kg	✱	87	46 - 120	4	18
2,4,6-Trichlorophenol	ND		3270	2720		ug/Kg	✱	83	41 - 123	4	19
2,4-Dichlorophenol	ND		3270	2630		ug/Kg	✱	81	45 - 120	10	19
2,4-Dimethylphenol	ND		3270	2680		ug/Kg	✱	82	52 - 120	5	42
2,4-Dinitrophenol	ND		6530	2730		ug/Kg	✱	42	41 - 146	9	22
2,4-Dinitrotoluene	ND		3270	2690		ug/Kg	✱	82	63 - 125	15	20
2,6-Dinitrotoluene	ND		3270	2870		ug/Kg	✱	88	66 - 120	3	15
2-Chloronaphthalene	ND		3270	2850		ug/Kg	✱	87	57 - 120	1	21
2-Chlorophenol	ND		3270	2630		ug/Kg	✱	81	43 - 120	8	25
2-Methylnaphthalene	ND		3270	2710		ug/Kg	✱	83	55 - 120	1	21
2-Methylphenol	ND		3270	2700		ug/Kg	✱	83	48 - 120	10	27
2-Nitroaniline	ND		3270	2930		ug/Kg	✱	90	61 - 120	1	15
2-Nitrophenol	ND		3270	2780		ug/Kg	✱	85	37 - 120	1	18
3,3'-Dichlorobenzidine	ND		3270	2730		ug/Kg	✱	84	37 - 126	10	25
3-Nitroaniline	ND		3270	1820		ug/Kg	✱	56	48 - 120	10	19
4,6-Dinitro-2-methylphenol	ND		6530	4590		ug/Kg	✱	70	23 - 149	10	15
4-Bromophenyl phenyl ether	ND		3270	2900		ug/Kg	✱	89	58 - 120	6	15
4-Chloro-3-methylphenol	ND		3270	2810		ug/Kg	✱	86	49 - 125	1	27
4-Chloroaniline	ND	F2	3270	1800	F2	ug/Kg	✱	55	38 - 120	31	22
4-Chlorophenyl phenyl ether	ND		3270	2800		ug/Kg	✱	86	63 - 124	5	16
4-Methylphenol	ND		3270	2720		ug/Kg	✱	83	50 - 120	5	24
4-Nitroaniline	ND		3270	2560		ug/Kg	✱	78	47 - 120	1	24
4-Nitrophenol	ND		6530	5390		ug/Kg	✱	83	31 - 147	4	25
Acenaphthene	ND		3270	2890		ug/Kg	✱	89	60 - 120	2	35
Acenaphthylene	ND		3270	2800		ug/Kg	✱	86	58 - 121	4	18
Acetophenone	ND		3270	2490		ug/Kg	✱	76	47 - 120	13	20
Anthracene	ND		3270	2810		ug/Kg	✱	86	62 - 120	3	15
Atrazine	ND		3270	2270		ug/Kg	✱	69	60 - 150	3	20
Benzaldehyde	ND		3270	1900		ug/Kg	✱	58	10 - 150	14	20
Benzo[a]anthracene	ND		3270	2740		ug/Kg	✱	84	65 - 120	5	15
Benzo[a]pyrene	ND		3270	2890		ug/Kg	✱	88	64 - 120	9	15
Benzo[b]fluoranthene	ND		3270	2780		ug/Kg	✱	85	10 - 150	5	15
Benzo[g,h,i]perylene	ND		3270	3050		ug/Kg	✱	94	45 - 145	11	15
Benzo[k]fluoranthene	ND		3270	2980		ug/Kg	✱	91	23 - 150	11	22
Biphenyl	ND		3270	2860		ug/Kg	✱	88	58 - 120	3	20
bis (2-chloroisopropyl) ether	ND		3270	2740		ug/Kg	✱	84	31 - 120	6	24
Bis(2-chloroethoxy)methane	ND		3270	2660		ug/Kg	✱	82	52 - 120	2	17
Bis(2-chloroethyl)ether	ND		3270	2600		ug/Kg	✱	80	45 - 120	10	21
Bis(2-ethylhexyl) phthalate	ND		3270	2970		ug/Kg	✱	91	61 - 133	8	15
Butyl benzyl phthalate	ND		3270	2830		ug/Kg	✱	87	61 - 120	8	16
Caprolactam	ND		3270	1870		ug/Kg	✱	57	37 - 133	1	20
Carbazole	ND		3270	3130		ug/Kg	✱	96	59 - 120	2	20
Chrysene	ND		3270	2740		ug/Kg	✱	84	64 - 120	5	15
Dibenz(a,h)anthracene	ND		3270	2910		ug/Kg	✱	89	54 - 132	10	15
Dibenzofuran	ND		3270	2780		ug/Kg	✱	85	62 - 120	2	15
Diethyl phthalate	ND		3270	2920		ug/Kg	✱	89	66 - 120	1	15
Dimethyl phthalate	ND		3270	2770		ug/Kg	✱	85	65 - 124	5	15

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-229710-3 MSD

Matrix: Solid

Analysis Batch: 747476

Client Sample ID: RI-BH-8 Native

Prep Type: Total/NA

Prep Batch: 747406

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Di-n-butyl phthalate	ND		3270	2930		ug/Kg	☼	90	58 - 130	1	15
Di-n-octyl phthalate	ND		3270	2990		ug/Kg	☼	92	57 - 133	6	16
Fluoranthene	ND		3270	2900		ug/Kg	☼	89	62 - 120	2	15
Fluorene	ND		3270	2930		ug/Kg	☼	90	63 - 120	5	15
Hexachlorobenzene	ND		3270	2850		ug/Kg	☼	87	60 - 120	1	15
Hexachlorobutadiene	ND		3270	2450		ug/Kg	☼	75	45 - 120	3	44
Hexachlorocyclopentadiene	ND		3270	2040		ug/Kg	☼	63	31 - 120	0	49
Hexachloroethane	ND		3270	2390		ug/Kg	☼	73	21 - 120	11	46
Indeno[1,2,3-cd]pyrene	ND		3270	2980		ug/Kg	☼	91	56 - 134	6	15
Isophorone	ND		3270	2790		ug/Kg	☼	86	56 - 120	2	17
Naphthalene	ND		3270	2740		ug/Kg	☼	84	46 - 120	4	29
Nitrobenzene	ND		3270	2670		ug/Kg	☼	82	49 - 120	1	24
N-Nitrosodi-n-propylamine	ND		3270	2590		ug/Kg	☼	79	46 - 120	15	31
N-Nitrosodiphenylamine	ND		3270	2910		ug/Kg	☼	89	20 - 128	2	15
Pentachlorophenol	ND		6530	5450		ug/Kg	☼	83	10 - 136	5	35
Phenanthrene	ND		3270	2900		ug/Kg	☼	89	60 - 122	2	15
Phenol	ND		3270	2560		ug/Kg	☼	78	50 - 120	9	35
Pyrene	ND		3270	2880		ug/Kg	☼	88	61 - 133	5	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	88		10 - 140
2-Fluorobiphenyl (Surr)	87		29 - 120
2-Fluorophenol (Surr)	81		18 - 120
Nitrobenzene-d5 (Surr)	87		22 - 120
Phenol-d5 (Surr)	82		23 - 120
p-Terphenyl-d14 (Surr)	85		28 - 124

Lab Sample ID: MB 480-747407/1-A

Matrix: Solid

Analysis Batch: 747473

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747407

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		100	37	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
2,4,5-Trichlorophenol	ND		170	34	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
2,4,6-Trichlorophenol	ND		170	26	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
2,4-Dichlorophenol	ND		170	33	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
2,4-Dimethylphenol	ND		170	36	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
2,4-Dinitrophenol	ND		1700	32	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
2,4-Dinitrotoluene	ND		170	23	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
2,6-Dinitrotoluene	ND		170	24	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
2-Chloronaphthalene	ND		170	32	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
2-Chlorophenol	ND		170	27	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
2-Methylnaphthalene	ND		170	27	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
2-Methylphenol	ND		170	27	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
2-Nitroaniline	ND		330	29	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
2-Nitrophenol	ND		170	19	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
3,3'-Dichlorobenzidine	ND		330	50	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
3-Nitroaniline	ND		330	24	ug/Kg		05/29/25 13:56	05/30/25 12:40	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-747407/1-A

Matrix: Solid

Analysis Batch: 747473

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747407

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		330	37	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
4-Bromophenyl phenyl ether	ND		170	29	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
4-Chloro-3-methylphenol	ND		170	35	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
4-Chloroaniline	ND		170	24	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
4-Chlorophenyl phenyl ether	ND		170	36	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
4-Methylphenol	ND		330	30	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
4-Nitroaniline	ND		330	25	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
4-Nitrophenol	ND		330	46	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Acenaphthene	ND		170	31	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Acenaphthylene	ND		170	33	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Acetophenone	ND		170	30	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Anthracene	ND		170	31	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Atrazine	ND		170	57	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Benzaldehyde	ND		170	130	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Benzo[a]anthracene	ND		170	23	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Benzo[a]pyrene	ND		170	29	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Benzo[b]fluoranthene	ND		170	23	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Benzo[g,h,i]perylene	ND		170	30	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Benzo[k]fluoranthene	ND		170	38	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Biphenyl	ND		170	32	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
bis (2-chloroisopropyl) ether	ND		170	35	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Bis(2-chloroethoxy)methane	ND		170	32	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Bis(2-chloroethyl)ether	ND		170	32	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Bis(2-ethylhexyl) phthalate	ND		170	37	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Butyl benzyl phthalate	ND		170	31	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Caprolactam	ND		170	39	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Carbazole	ND		170	33	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Chrysene	ND		170	41	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Dibenz(a,h)anthracene	ND		170	34	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Dibenzofuran	ND		170	30	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Diethyl phthalate	ND		170	30	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Dimethyl phthalate	ND		170	33	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Di-n-butyl phthalate	ND		170	38	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Di-n-octyl phthalate	ND		170	32	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Fluoranthene	ND		170	31	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Fluorene	ND		170	31	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Hexachlorobenzene	ND		170	33	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Hexachlorobutadiene	ND		170	25	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Hexachlorocyclopentadiene	ND		330	74	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Hexachloroethane	ND		170	31	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Indeno[1,2,3-cd]pyrene	ND		170	25	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Isophorone	ND		170	35	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Naphthalene	ND		170	28	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Nitrobenzene	ND		170	28	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
N-Nitrosodi-n-propylamine	ND		170	38	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
N-Nitrosodiphenylamine	ND		170	28	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Pentachlorophenol	ND		330	54	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Phenanthrene	ND		170	32	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Phenol	ND		170	31	ug/Kg		05/29/25 13:56	05/30/25 12:40	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-747407/1-A

Matrix: Solid

Analysis Batch: 747473

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747407

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		170	32	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	4300	T J	ug/Kg		1.93	N/A	05/29/25 13:56	05/30/25 12:40	1
3-Penten-2-one, 4-methyl-	1500	T J N	ug/Kg		2.64	141-79-7	05/29/25 13:56	05/30/25 12:40	1
Unknown	27900	T J	ug/Kg		3.37	N/A	05/29/25 13:56	05/30/25 12:40	1
Unknown	280	T J	ug/Kg		6.78	N/A	05/29/25 13:56	05/30/25 12:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	70		10 - 140				05/29/25 13:56	05/30/25 12:40	1
2-Fluorobiphenyl (Surr)	76		29 - 120				05/29/25 13:56	05/30/25 12:40	1
2-Fluorophenol (Surr)	65		18 - 120				05/29/25 13:56	05/30/25 12:40	1
Nitrobenzene-d5 (Surr)	68		22 - 120				05/29/25 13:56	05/30/25 12:40	1
Phenol-d5 (Surr)	70		23 - 120				05/29/25 13:56	05/30/25 12:40	1
p-Terphenyl-d14 (Surr)	91		28 - 124				05/29/25 13:56	05/30/25 12:40	1

Lab Sample ID: LCS 480-747407/2-A

Matrix: Solid

Analysis Batch: 747473

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747407

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	2670	868		ug/Kg		33	13 - 120
2,4,5-Trichlorophenol	2670	2040		ug/Kg		77	58 - 120
2,4,6-Trichlorophenol	2670	2060		ug/Kg		77	60 - 120
2,4-Dichlorophenol	2670	1810		ug/Kg		68	53 - 120
2,4-Dimethylphenol	2670	1880		ug/Kg		71	55 - 120
2,4-Dinitrophenol	5330	4240		ug/Kg		80	15 - 120
2,4-Dinitrotoluene	2670	2300		ug/Kg		86	64 - 127
2,6-Dinitrotoluene	2670	2150		ug/Kg		81	65 - 123
2-Chloronaphthalene	2670	1900		ug/Kg		71	57 - 120
2-Chlorophenol	2670	1590		ug/Kg		60	46 - 120
2-Methylnaphthalene	2670	1810		ug/Kg		68	55 - 120
2-Methylphenol	2670	1660		ug/Kg		62	51 - 120
2-Nitroaniline	2670	2110		ug/Kg		79	58 - 129
2-Nitrophenol	2670	1630		ug/Kg		61	46 - 120
3,3'-Dichlorobenzidine	2670	1700		ug/Kg		64	10 - 120
3-Nitroaniline	2670	1800		ug/Kg		67	51 - 120
4,6-Dinitro-2-methylphenol	5330	4660		ug/Kg		87	40 - 123
4-Bromophenyl phenyl ether	2670	2280		ug/Kg		85	69 - 126
4-Chloro-3-methylphenol	2670	2180		ug/Kg		82	55 - 120
4-Chloroaniline	2670	1370		ug/Kg		51	48 - 120
4-Chlorophenyl phenyl ether	2670	2150		ug/Kg		81	66 - 120
4-Methylphenol	2670	1770		ug/Kg		66	51 - 120
4-Nitroaniline	2670	2300		ug/Kg		86	54 - 126
4-Nitrophenol	5330	4300		ug/Kg		81	41 - 145
Acenaphthene	2670	2040		ug/Kg		77	63 - 120
Acenaphthylene	2670	2000		ug/Kg		75	59 - 123
Acetophenone	2670	1640		ug/Kg		61	49 - 120

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-747407/2-A

Matrix: Solid

Analysis Batch: 747473

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747407

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Anthracene	2670	2420		ug/Kg		91	70 - 125
Atrazine	2670	1870		ug/Kg		70	48 - 136
Benzaldehyde	2670	991		ug/Kg		37	10 - 131
Benzo[a]anthracene	2670	2370		ug/Kg		89	73 - 128
Benzo[a]pyrene	2670	2490		ug/Kg		93	63 - 129
Benzo[b]fluoranthene	2670	2460		ug/Kg		92	68 - 133
Benzo[g,h,i]perylene	2670	2550		ug/Kg		96	66 - 135
Benzo[k]fluoranthene	2670	2420		ug/Kg		91	70 - 133
Biphenyl	2670	1950		ug/Kg		73	59 - 120
bis (2-chloroisopropyl) ether	2670	1470		ug/Kg		55	34 - 120
Bis(2-chloroethoxy)methane	2670	1720		ug/Kg		65	49 - 120
Bis(2-chloroethyl)ether	2670	1500		ug/Kg		56	40 - 120
Bis(2-ethylhexyl) phthalate	2670	2240		ug/Kg		84	65 - 140
Butyl benzyl phthalate	2670	2170		ug/Kg		81	66 - 140
Caprolactam	2670	1580		ug/Kg		59	47 - 120
Carbazole	2670	2430		ug/Kg		91	67 - 127
Chrysene	2670	2320		ug/Kg		87	73 - 127
Dibenz(a,h)anthracene	2670	2380		ug/Kg		89	68 - 133
Dibenzofuran	2670	2150		ug/Kg		80	64 - 120
Diethyl phthalate	2670	2270		ug/Kg		85	62 - 133
Dimethyl phthalate	2670	2180		ug/Kg		82	66 - 125
Di-n-butyl phthalate	2670	2130		ug/Kg		80	65 - 138
Di-n-octyl phthalate	2670	2030		ug/Kg		76	65 - 140
Fluoranthene	2670	2400		ug/Kg		90	66 - 129
Fluorene	2670	2200		ug/Kg		83	66 - 120
Hexachlorobenzene	2670	2350		ug/Kg		88	68 - 129
Hexachlorobutadiene	2670	1640		ug/Kg		61	43 - 122
Hexachlorocyclopentadiene	2670	1430		ug/Kg		54	30 - 125
Hexachloroethane	2670	1410		ug/Kg		53	36 - 120
Indeno[1,2,3-cd]pyrene	2670	2430		ug/Kg		91	68 - 133
Isophorone	2670	1840		ug/Kg		69	54 - 120
Naphthalene	2670	1730		ug/Kg		65	49 - 120
Nitrobenzene	2670	1680		ug/Kg		63	46 - 120
N-Nitrosodi-n-propylamine	2670	1690		ug/Kg		63	48 - 120
N-Nitrosodiphenylamine	2670	2350		ug/Kg		88	69 - 126
Pentachlorophenol	5330	4290		ug/Kg		80	10 - 124
Phenanthrene	2670	2330		ug/Kg		88	69 - 124
Phenol	2670	1630		ug/Kg		61	46 - 120
Pyrene	2670	2420		ug/Kg		91	70 - 141

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	87		10 - 140
2-Fluorobiphenyl (Surr)	73		29 - 120
2-Fluorophenol (Surr)	57		18 - 120
Nitrobenzene-d5 (Surr)	64		22 - 120
Phenol-d5 (Surr)	63		23 - 120
p-Terphenyl-d14 (Surr)	88		28 - 124

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-747333/1-A

Matrix: Solid

Analysis Batch: 747470

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747333

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		3.3	0.65	ug/Kg		05/29/25 06:48	05/30/25 09:31	1
4,4'-DDE	ND		3.3	0.70	ug/Kg		05/29/25 06:48	05/30/25 09:31	1
4,4'-DDT	ND		3.3	0.78	ug/Kg		05/29/25 06:48	05/30/25 09:31	1
beta-BHC	ND		3.3	0.60	ug/Kg		05/29/25 06:48	05/30/25 09:31	1
cis-Chlordane	ND		3.3	1.7	ug/Kg		05/29/25 06:48	05/30/25 09:31	1
alpha-BHC	ND		3.3	0.60	ug/Kg		05/29/25 06:48	05/30/25 09:31	1
Aldrin	ND		3.3	0.82	ug/Kg		05/29/25 06:48	05/30/25 09:31	1
delta-BHC	ND		3.3	0.62	ug/Kg		05/29/25 06:48	05/30/25 09:31	1
Dieldrin	ND		3.3	0.80	ug/Kg		05/29/25 06:48	05/30/25 09:31	1
Endosulfan I	ND		3.3	0.64	ug/Kg		05/29/25 06:48	05/30/25 09:31	1
Endosulfan II	ND		3.3	0.60	ug/Kg		05/29/25 06:48	05/30/25 09:31	1
Endosulfan sulfate	ND		3.3	0.62	ug/Kg		05/29/25 06:48	05/30/25 09:31	1
Endrin	ND		3.3	0.66	ug/Kg		05/29/25 06:48	05/30/25 09:31	1
Endrin aldehyde	ND		3.3	0.85	ug/Kg		05/29/25 06:48	05/30/25 09:31	1
Endrin ketone	ND		3.3	0.82	ug/Kg		05/29/25 06:48	05/30/25 09:31	1
gamma-BHC (Lindane)	ND		3.3	0.61	ug/Kg		05/29/25 06:48	05/30/25 09:31	1
trans-Chlordane	ND		3.3	1.1	ug/Kg		05/29/25 06:48	05/30/25 09:31	1
Heptachlor	ND		3.3	0.72	ug/Kg		05/29/25 06:48	05/30/25 09:31	1
Heptachlor epoxide	ND		3.3	0.86	ug/Kg		05/29/25 06:48	05/30/25 09:31	1
Methoxychlor	2.91	J	3.3	0.68	ug/Kg		05/29/25 06:48	05/30/25 09:31	1
Toxaphene	ND		33	19	ug/Kg		05/29/25 06:48	05/30/25 09:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	80		45 - 120	05/29/25 06:48	05/30/25 09:31	1
DCB Decachlorobiphenyl	82		45 - 120	05/29/25 06:48	05/30/25 09:31	1
Tetrachloro-m-xylene	65		30 - 124	05/29/25 06:48	05/30/25 09:31	1
Tetrachloro-m-xylene	68		30 - 124	05/29/25 06:48	05/30/25 09:31	1

Lab Sample ID: LCS 480-747333/2-A

Matrix: Solid

Analysis Batch: 747470

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747333

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	33.3	29.3		ug/Kg		88	56 - 120
4,4'-DDE	33.3	28.3		ug/Kg		85	44 - 120
4,4'-DDT	33.3	34.5		ug/Kg		104	38 - 120
beta-BHC	33.3	27.1		ug/Kg		81	40 - 120
cis-Chlordane	33.3	27.8		ug/Kg		83	47 - 120
alpha-BHC	33.3	25.4		ug/Kg		76	39 - 120
Aldrin	33.3	27.3		ug/Kg		82	38 - 120
delta-BHC	33.3	25.9		ug/Kg		78	45 - 120
Dieldrin	33.3	29.3		ug/Kg		88	58 - 120
Endosulfan I	33.3	28.2		ug/Kg		85	49 - 120
Endosulfan II	33.3	29.6		ug/Kg		89	55 - 120
Endosulfan sulfate	33.3	28.1		ug/Kg		84	49 - 124
Endrin	33.3	29.1		ug/Kg		87	58 - 120
Endrin aldehyde	33.3	25.3		ug/Kg		76	37 - 121
Endrin ketone	33.3	31.1		ug/Kg		93	46 - 123

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 480-747333/2-A

Matrix: Solid

Analysis Batch: 747470

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747333

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
gamma-BHC (Lindane)	33.3	27.0		ug/Kg		81	50 - 120
trans-Chlordane	33.3	28.3		ug/Kg		85	48 - 120
Heptachlor	33.3	29.9		ug/Kg		90	50 - 120
Heptachlor epoxide	33.3	29.5		ug/Kg		88	50 - 120
Methoxychlor	33.3	38.5		ug/Kg		115	58 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	93		45 - 120
DCB Decachlorobiphenyl	94		45 - 120
Tetrachloro-m-xylene	76		30 - 124
Tetrachloro-m-xylene	74		30 - 124

Lab Sample ID: 480-229710-1 MS

Matrix: Solid

Analysis Batch: 747470

Client Sample ID: RI-BH-7 Native

Prep Type: Total/NA

Prep Batch: 747333

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	ND		35.3	21.4		ug/Kg	✱	61	37 - 126
4,4'-DDE	ND		35.3	21.3		ug/Kg	✱	60	34 - 120
4,4'-DDT	ND		35.3	25.6		ug/Kg	✱	73	43 - 123
beta-BHC	ND		35.3	18.1		ug/Kg	✱	51	36 - 120
cis-Chlordane	ND		35.3	21.3		ug/Kg	✱	60	35 - 120
alpha-BHC	ND		35.3	18.3		ug/Kg	✱	52	39 - 120
Aldrin	ND		35.3	22.4		ug/Kg	✱	63	37 - 125
delta-BHC	ND		35.3	18.4		ug/Kg	✱	52	34 - 120
Dieldrin	ND	F2	35.3	21.7		ug/Kg	✱	61	45 - 120
Endosulfan I	ND		35.3	21.5		ug/Kg	✱	61	39 - 120
Endosulfan II	ND		35.3	21.3		ug/Kg	✱	60	34 - 126
Endosulfan sulfate	ND		35.3	17.6		ug/Kg	✱	50	27 - 130
Endrin	ND		35.3	22.0		ug/Kg	✱	62	47 - 121
Endrin aldehyde	ND		35.3	15.0		ug/Kg	✱	42	33 - 123
Endrin ketone	ND		35.3	22.4		ug/Kg	✱	63	43 - 126
gamma-BHC (Lindane)	ND	F1 F2	35.3	18.0		ug/Kg	✱	51	50 - 120
trans-Chlordane	ND		35.3	24.2		ug/Kg	✱	68	31 - 120
Heptachlor	ND		35.3	22.2		ug/Kg	✱	63	42 - 120
Heptachlor epoxide	ND		35.3	21.9		ug/Kg	✱	62	40 - 120
Methoxychlor	ND		35.3	28.1		ug/Kg	✱	80	44 - 150

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	68		45 - 120
DCB Decachlorobiphenyl	77		45 - 120
Tetrachloro-m-xylene	59		30 - 124
Tetrachloro-m-xylene	55		30 - 124

QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-229710-1 MSD

Matrix: Solid

Analysis Batch: 747470

Client Sample ID: RI-BH-7 Native

Prep Type: Total/NA

Prep Batch: 747333

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	ND		34.6	18.9		ug/Kg	✖	55	37 - 126	13	21
4,4'-DDE	ND		34.6	19.0		ug/Kg	✖	55	34 - 120	12	18
4,4'-DDT	ND		34.6	21.7		ug/Kg	✖	63	43 - 123	16	25
beta-BHC	ND		34.6	15.4		ug/Kg	✖	45	36 - 120	16	19
cis-Chlordane	ND		34.6	19.0		ug/Kg	✖	55	35 - 120	11	23
alpha-BHC	ND		34.6	15.9		ug/Kg	✖	46	39 - 120	14	15
Aldrin	ND		34.6	20.5		ug/Kg	✖	59	37 - 125	9	12
delta-BHC	ND		34.6	16.0		ug/Kg	✖	46	34 - 120	14	14
Dieldrin	ND	F2	34.6	19.0	F2	ug/Kg	✖	55	45 - 120	13	12
Endosulfan I	ND		34.6	18.9		ug/Kg	✖	55	39 - 120	13	18
Endosulfan II	ND		34.6	18.1		ug/Kg	✖	52	34 - 126	16	26
Endosulfan sulfate	ND		34.6	14.7		ug/Kg	✖	43	27 - 130	18	35
Endrin	ND		34.6	19.3		ug/Kg	✖	56	47 - 121	13	20
Endrin aldehyde	ND		34.6	11.8		ug/Kg	✖	34	33 - 123	24	47
Endrin ketone	ND		34.6	19.0		ug/Kg	✖	55	43 - 126	17	37
gamma-BHC (Lindane)	ND	F1 F2	34.6	15.4	F1 F2	ug/Kg	✖	45	50 - 120	15	12
trans-Chlordane	ND		34.6	22.7		ug/Kg	✖	66	31 - 120	6	15
Heptachlor	ND		34.6	19.7		ug/Kg	✖	57	42 - 120	12	22
Heptachlor epoxide	ND		34.6	19.3		ug/Kg	✖	56	40 - 120	13	15
Methoxychlor	ND		34.6	23.5		ug/Kg	✖	68	44 - 150	18	24
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
DCB Decachlorobiphenyl	64		45 - 120								
DCB Decachlorobiphenyl	74		45 - 120								
Tetrachloro-m-xylene	55		30 - 124								
Tetrachloro-m-xylene	52		30 - 124								

Lab Sample ID: MB 480-747334/1-A

Matrix: Solid

Analysis Batch: 747468

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747334

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		3.3	0.65	ug/Kg		05/29/25 06:53	05/30/25 13:19	1
4,4'-DDE	ND		3.3	0.70	ug/Kg		05/29/25 06:53	05/30/25 13:19	1
4,4'-DDT	ND		3.3	0.78	ug/Kg		05/29/25 06:53	05/30/25 13:19	1
beta-BHC	ND		3.3	0.60	ug/Kg		05/29/25 06:53	05/30/25 13:19	1
cis-Chlordane	ND		3.3	1.7	ug/Kg		05/29/25 06:53	05/30/25 13:19	1
alpha-BHC	ND		3.3	0.60	ug/Kg		05/29/25 06:53	05/30/25 13:19	1
Aldrin	ND		3.3	0.82	ug/Kg		05/29/25 06:53	05/30/25 13:19	1
delta-BHC	ND		3.3	0.62	ug/Kg		05/29/25 06:53	05/30/25 13:19	1
Dieldrin	ND		3.3	0.80	ug/Kg		05/29/25 06:53	05/30/25 13:19	1
Endosulfan I	ND		3.3	0.64	ug/Kg		05/29/25 06:53	05/30/25 13:19	1
Endosulfan II	ND		3.3	0.60	ug/Kg		05/29/25 06:53	05/30/25 13:19	1
Endosulfan sulfate	ND		3.3	0.62	ug/Kg		05/29/25 06:53	05/30/25 13:19	1
Endrin	ND		3.3	0.66	ug/Kg		05/29/25 06:53	05/30/25 13:19	1
Endrin aldehyde	ND		3.3	0.85	ug/Kg		05/29/25 06:53	05/30/25 13:19	1
Endrin ketone	ND		3.3	0.82	ug/Kg		05/29/25 06:53	05/30/25 13:19	1
gamma-BHC (Lindane)	ND		3.3	0.61	ug/Kg		05/29/25 06:53	05/30/25 13:19	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 480-747334/1-A

Matrix: Solid

Analysis Batch: 747468

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747334

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-Chlordane	ND		3.3	1.1	ug/Kg		05/29/25 06:53	05/30/25 13:19	1
Heptachlor	ND		3.3	0.72	ug/Kg		05/29/25 06:53	05/30/25 13:19	1
Heptachlor epoxide	ND		3.3	0.86	ug/Kg		05/29/25 06:53	05/30/25 13:19	1
Methoxychlor	ND		3.3	0.68	ug/Kg		05/29/25 06:53	05/30/25 13:19	1
Toxaphene	ND		33	19	ug/Kg		05/29/25 06:53	05/30/25 13:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	100		45 - 120	05/29/25 06:53	05/30/25 13:19	1
DCB Decachlorobiphenyl	100		45 - 120	05/29/25 06:53	05/30/25 13:19	1
Tetrachloro-m-xylene	74		30 - 124	05/29/25 06:53	05/30/25 13:19	1
Tetrachloro-m-xylene	74		30 - 124	05/29/25 06:53	05/30/25 13:19	1

Lab Sample ID: LCS 480-747334/2-A

Matrix: Solid

Analysis Batch: 747468

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747334

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	33.3	28.0		ug/Kg		84	56 - 120
4,4'-DDE	33.3	23.7		ug/Kg		71	44 - 120
4,4'-DDT	33.3	27.2		ug/Kg		82	38 - 120
beta-BHC	33.3	25.3		ug/Kg		76	40 - 120
cis-Chlordane	33.3	22.9		ug/Kg		69	47 - 120
alpha-BHC	33.3	21.6		ug/Kg		65	39 - 120
Aldrin	33.3	22.7		ug/Kg		68	38 - 120
delta-BHC	33.3	24.8		ug/Kg		74	45 - 120
Dieldrin	33.3	25.8		ug/Kg		77	58 - 120
Endosulfan I	33.3	24.8		ug/Kg		74	49 - 120
Endosulfan II	33.3	28.5		ug/Kg		85	55 - 120
Endosulfan sulfate	33.3	24.5		ug/Kg		74	49 - 124
Endrin	33.3	26.6		ug/Kg		80	58 - 120
Endrin aldehyde	33.3	19.3		ug/Kg		58	37 - 121
Endrin ketone	33.3	26.4		ug/Kg		79	46 - 123
gamma-BHC (Lindane)	33.3	23.3		ug/Kg		70	50 - 120
trans-Chlordane	33.3	24.5		ug/Kg		73	48 - 120
Heptachlor	33.3	24.5		ug/Kg		73	50 - 120
Heptachlor epoxide	33.3	24.9		ug/Kg		75	50 - 120
Methoxychlor	33.3	27.1		ug/Kg		81	58 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	81		45 - 120
DCB Decachlorobiphenyl	91		45 - 120
Tetrachloro-m-xylene	67		30 - 124
Tetrachloro-m-xylene	71		30 - 124

QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-229710-25 MS

Matrix: Solid

Analysis Batch: 747468

Client Sample ID: RI-BH-5 Fill

Prep Type: Total/NA

Prep Batch: 747334

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	ND	F2	36.6	23.9		ug/Kg	✖	65	37 - 126
4,4'-DDE	ND	F2	36.6	22.7		ug/Kg	✖	62	34 - 120
4,4'-DDT	1.8	J F2	36.6	27.1		ug/Kg	✖	69	43 - 123
beta-BHC	ND	F2	36.6	21.2		ug/Kg	✖	58	36 - 120
cis-Chlordane	ND	F2	36.6	23.3		ug/Kg	✖	64	35 - 120
alpha-BHC	0.75	J F1 F2	36.6	20.5		ug/Kg	✖	54	39 - 120
Aldrin	ND	F2	36.6	24.3		ug/Kg	✖	66	37 - 125
delta-BHC	0.77	J F2	36.6	22.9		ug/Kg	✖	61	34 - 120
Dieldrin	ND	F2	36.6	24.8		ug/Kg	✖	68	45 - 120
Endosulfan I	ND	F2	36.6	23.4		ug/Kg	✖	64	39 - 120
Endosulfan II	ND		36.6	25.0		ug/Kg	✖	68	34 - 126
Endosulfan sulfate	ND		36.6	21.6		ug/Kg	✖	59	27 - 130
Endrin	1.1	J F2	36.6	25.2		ug/Kg	✖	66	47 - 121
Endrin aldehyde	ND	F1	36.6	13.3		ug/Kg	✖	36	33 - 123
Endrin ketone	ND		36.6	25.1		ug/Kg	✖	68	43 - 126
gamma-BHC (Lindane)	ND	F1 F2	36.6	21.7		ug/Kg	✖	59	50 - 120
trans-Chlordane	ND	F2	36.6	22.4		ug/Kg	✖	61	31 - 120
Heptachlor	ND	F2	36.6	23.2		ug/Kg	✖	63	42 - 120
Heptachlor epoxide	ND	F2	36.6	23.8		ug/Kg	✖	65	40 - 120
Methoxychlor	ND	F2	36.6	24.6		ug/Kg	✖	67	44 - 150
MS MS									
Surrogate	%Recovery	Qualifier	Limits						
DCB Decachlorobiphenyl	99		45 - 120						
DCB Decachlorobiphenyl	172	S1+	45 - 120						
Tetrachloro-m-xylene	61		30 - 124						
Tetrachloro-m-xylene	63		30 - 124						

Lab Sample ID: 480-229710-25 MSD

Matrix: Solid

Analysis Batch: 747468

Client Sample ID: RI-BH-5 Fill

Prep Type: Total/NA

Prep Batch: 747334

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
4,4'-DDD	ND	F2	37.3	19.2	F2	ug/Kg	✖	52	37 - 126	22	21
4,4'-DDE	ND	F2	37.3	16.8	F2	ug/Kg	✖	45	34 - 120	30	18
4,4'-DDT	1.8	J F2	37.3	19.0	F2	ug/Kg	✖	46	43 - 123	35	25
beta-BHC	ND	F2	37.3	16.9	F2	ug/Kg	✖	45	36 - 120	23	19
cis-Chlordane	ND	F2	37.3	17.0	F2	ug/Kg	✖	46	35 - 120	32	23
alpha-BHC	0.75	J F1 F2	37.3	15.0	F1 F2	ug/Kg	✖	38	39 - 120	31	15
Aldrin	ND	F2	37.3	16.7	F2	ug/Kg	✖	45	37 - 125	37	12
delta-BHC	0.77	J F2	37.3	18.2	F2	ug/Kg	✖	47	34 - 120	23	14
Dieldrin	ND	F2	37.3	19.1	F2	ug/Kg	✖	51	45 - 120	26	12
Endosulfan I	ND	F2	37.3	18.2	F2	ug/Kg	✖	49	39 - 120	25	18
Endosulfan II	ND		37.3	20.5		ug/Kg	✖	55	34 - 126	20	26
Endosulfan sulfate	ND		37.3	15.6		ug/Kg	✖	42	27 - 130	32	35
Endrin	1.1	J F2	37.3	19.2	F2	ug/Kg	✖	49	47 - 121	27	20
Endrin aldehyde	ND	F1	37.3	9.71	F1	ug/Kg	✖	26	33 - 123	31	47
Endrin ketone	ND		37.3	17.9		ug/Kg	✖	48	43 - 126	33	37
gamma-BHC (Lindane)	ND	F1 F2	37.3	16.1	F1 F2	ug/Kg	✖	43	50 - 120	30	12

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-229710-25 MSD

Matrix: Solid

Analysis Batch: 747468

Client Sample ID: RI-BH-5 Fill

Prep Type: Total/NA

Prep Batch: 747334

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-Chlordane	ND	F2	37.3	17.1	F2	ug/Kg	⚡	46	31 - 120	27	15
Heptachlor	ND	F2	37.3	16.2	F2	ug/Kg	⚡	43	42 - 120	36	22
Heptachlor epoxide	ND	F2	37.3	18.1	F2	ug/Kg	⚡	49	40 - 120	27	15
Methoxychlor	ND	F2	37.3	18.9	F2	ug/Kg	⚡	51	44 - 150	26	24

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	65		45 - 120
DCB Decachlorobiphenyl	92		45 - 120
Tetrachloro-m-xylene	38		30 - 124
Tetrachloro-m-xylene	38		30 - 124

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-747458/1-A

Matrix: Solid

Analysis Batch: 747511

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747458

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25	0.049	mg/Kg		05/30/25 06:41	05/30/25 13:53	1
PCB-1221	ND		0.25	0.049	mg/Kg		05/30/25 06:41	05/30/25 13:53	1
PCB-1232	ND		0.25	0.049	mg/Kg		05/30/25 06:41	05/30/25 13:53	1
PCB-1242	ND		0.25	0.049	mg/Kg		05/30/25 06:41	05/30/25 13:53	1
PCB-1248	ND		0.25	0.049	mg/Kg		05/30/25 06:41	05/30/25 13:53	1
PCB-1254	ND		0.25	0.12	mg/Kg		05/30/25 06:41	05/30/25 13:53	1
PCB-1260	ND		0.25	0.12	mg/Kg		05/30/25 06:41	05/30/25 13:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	123		60 - 154	05/30/25 06:41	05/30/25 13:53	1
Tetrachloro-m-xylene	125		60 - 154	05/30/25 06:41	05/30/25 13:53	1
DCB Decachlorobiphenyl	126		65 - 174	05/30/25 06:41	05/30/25 13:53	1
DCB Decachlorobiphenyl	125		65 - 174	05/30/25 06:41	05/30/25 13:53	1

Lab Sample ID: LCS 480-747458/2-A

Matrix: Solid

Analysis Batch: 747511

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747458

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	2.50	3.50		mg/Kg		140	51 - 185
PCB-1260	2.50	3.40		mg/Kg		136	61 - 184

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	148		60 - 154
Tetrachloro-m-xylene	156	S1+	60 - 154
DCB Decachlorobiphenyl	154		65 - 174
DCB Decachlorobiphenyl	154		65 - 174

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 480-229710-1 MS

Matrix: Solid

Analysis Batch: 747511

Client Sample ID: RI-BH-7 Native

Prep Type: Total/NA

Prep Batch: 747458

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	ND		2.16	2.57		mg/Kg	☼	119	50 - 177
PCB-1260	ND		2.16	2.56		mg/Kg	☼	118	33 - 200
Surrogate	MS %Recovery	MS Qualifier	Limits						
Tetrachloro-m-xylene	123		60 - 154						
Tetrachloro-m-xylene	133		60 - 154						
DCB Decachlorobiphenyl	137		65 - 174						
DCB Decachlorobiphenyl	139		65 - 174						

Lab Sample ID: 480-229710-1 MSD

Matrix: Solid

Analysis Batch: 747511

Client Sample ID: RI-BH-7 Native

Prep Type: Total/NA

Prep Batch: 747458

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	ND		2.36	3.05		mg/Kg	☼	130	50 - 177	17	50
PCB-1260	ND		2.36	3.00		mg/Kg	☼	127	33 - 200	16	50
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Tetrachloro-m-xylene	127		60 - 154								
Tetrachloro-m-xylene	135		60 - 154								
DCB Decachlorobiphenyl	137		65 - 174								
DCB Decachlorobiphenyl	143		65 - 174								

Lab Sample ID: MB 480-747543/1-A

Matrix: Solid

Analysis Batch: 747619

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747543

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25	0.049	mg/Kg		05/30/25 13:30	06/02/25 09:23	1
PCB-1221	ND		0.25	0.049	mg/Kg		05/30/25 13:30	06/02/25 09:23	1
PCB-1232	ND		0.25	0.049	mg/Kg		05/30/25 13:30	06/02/25 09:23	1
PCB-1242	ND		0.25	0.049	mg/Kg		05/30/25 13:30	06/02/25 09:23	1
PCB-1248	ND		0.25	0.049	mg/Kg		05/30/25 13:30	06/02/25 09:23	1
PCB-1254	ND		0.25	0.12	mg/Kg		05/30/25 13:30	06/02/25 09:23	1
PCB-1260	ND		0.25	0.12	mg/Kg		05/30/25 13:30	06/02/25 09:23	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	156	S1+	60 - 154				05/30/25 13:30	06/02/25 09:23	1
Tetrachloro-m-xylene	139		60 - 154				05/30/25 13:30	06/02/25 09:23	1
DCB Decachlorobiphenyl	165		65 - 174				05/30/25 13:30	06/02/25 09:23	1
DCB Decachlorobiphenyl	162		65 - 174				05/30/25 13:30	06/02/25 09:23	1

Lab Sample ID: LCS 480-747543/2-A

Matrix: Solid

Analysis Batch: 747619

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747543

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	2.50	3.46		mg/Kg		138	51 - 185

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 480-747543/2-A

Matrix: Solid

Analysis Batch: 747619

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747543

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1260	2.50	3.61		mg/Kg		145	61 - 184

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	167	S1+	60 - 154
Tetrachloro-m-xylene	150		60 - 154
DCB Decachlorobiphenyl	170		65 - 174
DCB Decachlorobiphenyl	169		65 - 174

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 410-651279/1-A

Matrix: Solid

Analysis Batch: 651610

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 651279

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.40	0.13	ng/g		06/01/25 11:59	06/02/25 11:10	1
Perfluoropentanoic acid (PFPeA)	ND		0.20	0.050	ng/g		06/01/25 11:59	06/02/25 11:10	1
Perfluorohexanoic acid (PFHxA)	ND		0.20	0.060	ng/g		06/01/25 11:59	06/02/25 11:10	1
Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.070	ng/g		06/01/25 11:59	06/02/25 11:10	1
Perfluorooctanoic acid (PFOA)	ND		0.20	0.060	ng/g		06/01/25 11:59	06/02/25 11:10	1
Perfluorononanoic acid (PFNA)	ND		0.20	0.060	ng/g		06/01/25 11:59	06/02/25 11:10	1
Perfluorodecanoic acid (PFDA)	ND		0.20	0.050	ng/g		06/01/25 11:59	06/02/25 11:10	1
Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.050	ng/g		06/01/25 11:59	06/02/25 11:10	1
Perfluorododecanoic acid (PFDoA)	ND		0.20	0.050	ng/g		06/01/25 11:59	06/02/25 11:10	1
Perfluorotridecanoic acid (PFTriDA)	ND		0.20	0.070	ng/g		06/01/25 11:59	06/02/25 11:10	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.20	0.070	ng/g		06/01/25 11:59	06/02/25 11:10	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.070	ng/g		06/01/25 11:59	06/02/25 11:10	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.20	0.060	ng/g		06/01/25 11:59	06/02/25 11:10	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.050	ng/g		06/01/25 11:59	06/02/25 11:10	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.070	ng/g		06/01/25 11:59	06/02/25 11:10	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.20	0.11	ng/g		06/01/25 11:59	06/02/25 11:10	1
Perfluorononanesulfonic acid (PFNS)	ND		0.20	0.070	ng/g		06/01/25 11:59	06/02/25 11:10	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.050	ng/g		06/01/25 11:59	06/02/25 11:10	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.060	ng/g		06/01/25 11:59	06/02/25 11:10	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.40	0.10	ng/g		06/01/25 11:59	06/02/25 11:10	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.40	0.13	ng/g		06/01/25 11:59	06/02/25 11:10	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.40	0.13	ng/g		06/01/25 11:59	06/02/25 11:10	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.090	ng/g		06/01/25 11:59	06/02/25 11:10	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.20	0.090	ng/g		06/01/25 11:59	06/02/25 11:10	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.20	0.10	ng/g		06/01/25 11:59	06/02/25 11:10	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.20	0.080	ng/g		06/01/25 11:59	06/02/25 11:10	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 410-651279/1-A

Matrix: Solid

Analysis Batch: 651610

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 651279

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.20	0.11	ng/g		06/01/25 11:59	06/02/25 11:10	1
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND		1.0	0.30	ng/g		06/01/25 11:59	06/02/25 11:10	1
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND		1.0	0.30	ng/g		06/01/25 11:59	06/02/25 11:10	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.20	0.11	ng/g		06/01/25 11:59	06/02/25 11:10	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.20	0.060	ng/g		06/01/25 11:59	06/02/25 11:10	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.20	0.070	ng/g		06/01/25 11:59	06/02/25 11:10	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.20	0.050	ng/g		06/01/25 11:59	06/02/25 11:10	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.20	0.070	ng/g		06/01/25 11:59	06/02/25 11:10	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.20	0.090	ng/g		06/01/25 11:59	06/02/25 11:10	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.20	0.080	ng/g		06/01/25 11:59	06/02/25 11:10	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.20	0.050	ng/g		06/01/25 11:59	06/02/25 11:10	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.40	0.20	ng/g		06/01/25 11:59	06/02/25 11:10	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		1.0	0.50	ng/g		06/01/25 11:59	06/02/25 11:10	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		1.0	0.40	ng/g		06/01/25 11:59	06/02/25 11:10	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	98.5		8 - 130	06/01/25 11:59	06/02/25 11:10	1
13C5-PFPeA	94.5		35 - 130	06/01/25 11:59	06/02/25 11:10	1
13C5-PFHxA	97.6		40 - 130	06/01/25 11:59	06/02/25 11:10	1
13C4-PFHpA	96.6		40 - 130	06/01/25 11:59	06/02/25 11:10	1
13C8-PFOA	95.8		40 - 130	06/01/25 11:59	06/02/25 11:10	1
13C9-PFNA	88.5		40 - 130	06/01/25 11:59	06/02/25 11:10	1
13C6-PFDA	88.7		40 - 130	06/01/25 11:59	06/02/25 11:10	1
13C7-PFUnA	93.6		40 - 130	06/01/25 11:59	06/02/25 11:10	1
13C2-PFTeDA	85.4		20 - 130	06/01/25 11:59	06/02/25 11:10	1
13C3-PFBS	98.6		40 - 135	06/01/25 11:59	06/02/25 11:10	1
13C3-PFHxS	90.9		40 - 130	06/01/25 11:59	06/02/25 11:10	1
13C8-PFOS	85.5		40 - 130	06/01/25 11:59	06/02/25 11:10	1
13C8-PFOSA	89.3		40 - 130	06/01/25 11:59	06/02/25 11:10	1
d3-NMeFOSAA	89.6		40 - 135	06/01/25 11:59	06/02/25 11:10	1
d5-NEtFOSAA	149		40 - 150	06/01/25 11:59	06/02/25 11:10	1
13C2 4:2 FTS	105		40 - 165	06/01/25 11:59	06/02/25 11:10	1
13C2 6:2 FTS	120		40 - 215	06/01/25 11:59	06/02/25 11:10	1
13C2 8:2 FTS	97.6		40 - 275	06/01/25 11:59	06/02/25 11:10	1
13C3-HFPO-DA	92.7		40 - 130	06/01/25 11:59	06/02/25 11:10	1
D7-NMeFOSE	58.7		20 - 130	06/01/25 11:59	06/02/25 11:10	1
D9-NEtFOSE	48.3		15 - 130	06/01/25 11:59	06/02/25 11:10	1
d5-NEtPFOSA	65.1		10 - 130	06/01/25 11:59	06/02/25 11:10	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 410-651279/1-A

Matrix: Solid

Analysis Batch: 651610

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 651279

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
d3-NMePFOSA	72.0		10 - 130	06/01/25 11:59	06/02/25 11:10	1
13C2 PFDoA	88.0		40 - 130	06/01/25 11:59	06/02/25 11:10	1

Lab Sample ID: LCS 410-651279/2-A

Matrix: Solid

Analysis Batch: 651610

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 651279

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	5.00	4.80		ng/g		96	70 - 140
Perfluoropentanoic acid (PFPeA)	2.50	2.54		ng/g		102	60 - 150
Perfluorohexanoic acid (PFHxA)	2.50	2.38		ng/g		95	65 - 140
Perfluoroheptanoic acid (PFHpA)	2.50	2.47		ng/g		99	65 - 145
Perfluorooctanoic acid (PFOA)	2.50	2.39		ng/g		96	70 - 150
Perfluorononanoic acid (PFNA)	2.50	2.34		ng/g		93	70 - 155
Perfluorodecanoic acid (PFDA)	2.50	2.22		ng/g		89	70 - 155
Perfluoroundecanoic acid (PFUnA)	2.50	2.29		ng/g		91	70 - 155
Perfluorododecanoic acid (PFDoA)	2.50	2.31		ng/g		92	70 - 150
Perfluorotridecanoic acid (PFTTrDA)	2.50	2.06		ng/g		82	65 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.50	2.31		ng/g		92	65 - 150
Perfluorobutanesulfonic acid (PFBS)	2.22	2.14		ng/g		97	65 - 145
Perfluoropentanesulfonic acid (PFPeS)	2.35	2.28		ng/g		97	55 - 160
Perfluorohexanesulfonic acid (PFHxS)	2.28	2.08		ng/g		91	60 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.39	2.38		ng/g		100	65 - 155
Perfluorooctanesulfonic acid (PFOS)	2.33	2.14		ng/g		92	65 - 160
Perfluorononanesulfonic acid (PFNS)	2.41	2.01		ng/g		83	55 - 140
Perfluorodecanesulfonic acid (PFDS)	2.41	1.59		ng/g		66	40 - 155
Perfluorododecanesulfonic acid (PFDoS)	2.43	1.23		ng/g		51	25 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	4.69	4.32		ng/g		92	60 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	4.76	4.31		ng/g		91	55 - 200
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	4.80	4.30		ng/g		90	70 - 150
Perfluorooctanesulfonamide (PFOSA)	2.50	2.32		ng/g		93	70 - 140
N-methylperfluorooctane sulfonamide (NMeFOSA)	2.50	2.63		ng/g		105	70 - 155
N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.50	2.46		ng/g		98	70 - 140
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.50	2.26		ng/g		90	65 - 155

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-651279/2-A

Matrix: Solid

Analysis Batch: 651610

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 651279

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.50	1.97		ng/g		79	65 - 165
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	12.5	12.0		ng/g		96	70 - 140
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	12.5	12.5		ng/g		100	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.88	2.00		ng/g		107	70 - 145
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.37	2.29		ng/g		97	70 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.50	2.40		ng/g		96	30 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.50	2.38		ng/g		95	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.50	2.46		ng/g		98	60 - 155
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.34	1.90		ng/g		81	70 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.36	1.39		ng/g		59	45 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	2.23	2.33		ng/g		104	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	5.00	4.53		ng/g		91	45 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	12.5	11.0		ng/g		88	60 - 130
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	12.5	9.97		ng/g		80	60 - 150

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4-PFBA	117		8 - 130
13C5-PFPeA	114		35 - 130
13C5-PFHxA	112		40 - 130
13C4-PFHpA	109		40 - 130
13C8-PFOA	108		40 - 130
13C9-PFNA	105		40 - 130
13C6-PFDA	99.2		40 - 130
13C7-PFUnA	91.9		40 - 130
13C2-PFTeDA	60.6		20 - 130
13C3-PFBS	111		40 - 135
13C3-PFHxS	110		40 - 130
13C8-PFOS	96.2		40 - 130
13C8-PFOSA	101		40 - 130
d3-NMeFOSAA	96.7		40 - 135
d5-NEtFOSAA	156	*5+	40 - 150
13C2 4:2 FTS	119		40 - 165
13C2 6:2 FTS	130		40 - 215
13C2 8:2 FTS	113		40 - 275
13C3-HFPO-DA	109		40 - 130
D7-NMeFOSE	28.5		20 - 130

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-651279/2-A

Matrix: Solid

Analysis Batch: 651610

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 651279

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
D9-NEtFOSE	18.9		15 - 130
d5-NEtPFOSA	67.5		10 - 130
d3-NMePFOSA	76.5		10 - 130
13C2 PFDoA	78.4		40 - 130

Lab Sample ID: LCSD 410-651279/3-A

Matrix: Solid

Analysis Batch: 651610

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 651279

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Perfluorobutanoic acid (PFBA)	5.00	4.95		ng/g		99	70 - 140		3	30
Perfluoropentanoic acid (PFPeA)	2.50	2.71		ng/g		108	60 - 150		6	30
Perfluorohexanoic acid (PFHxA)	2.50	2.39		ng/g		96	65 - 140		1	30
Perfluoroheptanoic acid (PFHpA)	2.50	2.45		ng/g		98	65 - 145		1	30
Perfluorooctanoic acid (PFOA)	2.50	2.52		ng/g		101	70 - 150		5	30
Perfluorononanoic acid (PFNA)	2.50	2.44		ng/g		97	70 - 155		4	30
Perfluorodecanoic acid (PFDA)	2.50	2.36		ng/g		94	70 - 155		6	30
Perfluoroundecanoic acid (PFUnA)	2.50	2.28		ng/g		91	70 - 155		0	30
Perfluorododecanoic acid (PFDoA)	2.50	2.42		ng/g		97	70 - 150		5	30
Perfluorotridecanoic acid (PFTrDA)	2.50	2.29		ng/g		92	65 - 150		11	30
Perfluorotetradecanoic acid (PFTeDA)	2.50	2.42		ng/g		97	65 - 150		5	30
Perfluorobutanesulfonic acid (PFBS)	2.22	2.24		ng/g		101	65 - 145		5	30
Perfluoropentanesulfonic acid (PFPeS)	2.35	2.37		ng/g		101	55 - 160		4	30
Perfluorohexanesulfonic acid (PFHxS)	2.28	2.11		ng/g		92	60 - 150		1	30
Perfluoroheptanesulfonic acid (PFHpS)	2.39	2.63		ng/g		110	65 - 155		10	30
Perfluorooctanesulfonic acid (PFOS)	2.33	2.31		ng/g		99	65 - 160		8	30
Perfluorononanesulfonic acid (PFNS)	2.41	2.18		ng/g		91	55 - 140		8	30
Perfluorodecanesulfonic acid (PFDS)	2.41	1.76		ng/g		73	40 - 155		10	30
Perfluorododecanesulfonic acid (PFDoS)	2.43	1.33		ng/g		55	25 - 160		8	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	4.69	4.26		ng/g		91	60 - 150		1	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	4.76	4.32		ng/g		91	55 - 200		0	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	4.80	4.04		ng/g		84	70 - 150		6	30
Perfluorooctanesulfonamide (PFOSA)	2.50	2.51		ng/g		101	70 - 140		8	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	2.50	2.64		ng/g		105	70 - 155		0	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.50	2.59		ng/g		104	70 - 140		5	30

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCSD 410-651279/3-A

Matrix: Solid

Analysis Batch: 651610

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 651279

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.50	2.27		ng/g		91	65 - 155	1	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.50	2.07		ng/g		83	65 - 165	5	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	12.5	12.3		ng/g		99	70 - 140	3	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	12.5	12.8		ng/g		102	70 - 135	2	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.88	1.98		ng/g		106	70 - 145	1	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.37	2.38		ng/g		101	70 - 160	4	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.50	2.47		ng/g		99	30 - 140	3	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.50	2.36		ng/g		95	60 - 150	0	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.50	2.39		ng/g		96	60 - 155	3	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.34	1.69		ng/g		72	70 - 150	11	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.36	1.21		ng/g		51	45 - 160	14	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	2.23	2.24		ng/g		100	70 - 140	4	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)	5.00	4.82		ng/g		96	45 - 130	6	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	12.5	11.3		ng/g		90	60 - 130	2	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	12.5	9.73		ng/g		78	60 - 150	2	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
13C4-PFBA	103		8 - 130
13C5-PFPeA	98.8		35 - 130
13C5-PFHxA	101		40 - 130
13C4-PFHpA	97.9		40 - 130
13C8-PFOA	94.6		40 - 130
13C9-PFNA	89.6		40 - 130
13C6-PFDA	81.8		40 - 130
13C7-PFUnA	75.3		40 - 130
13C2-PFTeDA	49.5		20 - 130
13C3-PFBS	93.6		40 - 135
13C3-PFHxS	87.0		40 - 130
13C8-PFOS	69.3		40 - 130
13C8-PFOSA	81.8		40 - 130
d3-NMeFOSAA	79.8		40 - 135
d5-NEtFOSAA	116		40 - 150
13C2 4:2 FTS	106		40 - 165
13C2 6:2 FTS	106		40 - 215
13C2 8:2 FTS	95.2		40 - 275
13C3-HFPO-DA	96.0		40 - 130

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCSD 410-651279/3-A

Matrix: Solid

Analysis Batch: 651610

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 651279

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
D7-NMeFOSE	31.3		20 - 130
D9-NEtFOSE	23.3		15 - 130
d5-NEtPFOSA	53.9		10 - 130
d3-NMePFOSA	65.6		10 - 130
13C2 PFDoA	62.3		40 - 130

Lab Sample ID: LLCS 410-651279/4-A

Matrix: Solid

Analysis Batch: 651610

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 651279

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.500	0.532		ng/g		106	70 - 140
Perfluoropentanoic acid (PFPeA)	0.250	0.283		ng/g		113	60 - 150
Perfluorohexanoic acid (PFHxA)	0.250	0.268		ng/g		107	65 - 140
Perfluoroheptanoic acid (PFHpA)	0.250	0.277		ng/g		111	65 - 145
Perfluorooctanoic acid (PFOA)	0.250	0.291		ng/g		116	70 - 150
Perfluorononanoic acid (PFNA)	0.250	0.267		ng/g		107	70 - 155
Perfluorodecanoic acid (PFDA)	0.250	0.299		ng/g		120	70 - 155
Perfluoroundecanoic acid (PFUnA)	0.250	0.248		ng/g		99	70 - 155
Perfluorododecanoic acid (PFDoA)	0.250	0.259		ng/g		104	70 - 150
Perfluorotridecanoic acid (PFTrDA)	0.250	0.260		ng/g		104	65 - 150
Perfluorotetradecanoic acid (PFTeDA)	0.250	0.249		ng/g		100	65 - 150
Perfluorobutanesulfonic acid (PFBS)	0.222	0.233		ng/g		105	65 - 145
Perfluoropentanesulfonic acid (PFPeS)	0.235	0.270		ng/g		115	55 - 160
Perfluorohexanesulfonic acid (PFHxS)	0.228	0.233		ng/g		102	60 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.239	0.268		ng/g		113	65 - 155
Perfluorooctanesulfonic acid (PFOS)	0.233	0.290		ng/g		125	65 - 160
Perfluorononanesulfonic acid (PFNS)	0.241	0.201		ng/g		84	55 - 140
Perfluorodecanesulfonic acid (PFDS)	0.241	0.196	J	ng/g		81	40 - 155
Perfluorododecanesulfonic acid (PFDoS)	0.243	0.172	J	ng/g		71	25 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.469	0.427		ng/g		91	60 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.476	0.455		ng/g		96	55 - 200
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.480	0.517		ng/g		108	70 - 150
Perfluorooctanesulfonamide (PFOSA)	0.250	0.238	I	ng/g		95	70 - 140
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.250	0.286		ng/g		115	70 - 155

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 410-651279/4-A

Matrix: Solid

Analysis Batch: 651610

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 651279

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.250	0.276		ng/g		110	70 - 140
N-methylperfluorooctanesulfonamide (NMeFOSAA)	0.250	0.262		ng/g		105	65 - 155
N-ethylperfluorooctanesulfonamide (NEtFOSA)	0.250	0.219		ng/g		88	65 - 165
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.25	1.20		ng/g		96	70 - 140
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.25	1.33		ng/g		106	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.188	0.204		ng/g		109	70 - 145
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.237	0.237		ng/g		100	70 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.250	0.278		ng/g		111	30 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.250	0.272		ng/g		109	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.250	0.263		ng/g		105	60 - 155
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.234	0.167	J	ng/g		72	70 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.236	0.136	J	ng/g		57	45 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.223	0.229		ng/g		103	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.500	0.522		ng/g		104	45 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	1.25	1.09		ng/g		87	60 - 130
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1.25	0.931	J	ng/g		74	60 - 150

Isotope Dilution	LLCS		Limits
	%Recovery	Qualifier	
13C4-PFBA	113		8 - 130
13C5-PFPeA	109		35 - 130
13C5-PFHxA	113		40 - 130
13C4-PFHpA	105		40 - 130
13C8-PFOA	102		40 - 130
13C9-PFNA	95.5		40 - 130
13C6-PFDA	88.0		40 - 130
13C7-PFUnA	83.0		40 - 130
13C2-PFTeDA	62.0		20 - 130
13C3-PFBS	102		40 - 135
13C3-PFHxS	94.7		40 - 130
13C8-PFOS	78.1		40 - 130
13C8-PFOSA	89.6		40 - 130
d3-NMeFOSAA	85.6		40 - 135
d5-NEtFOSAA	145		40 - 150
13C2 4:2 FTS	116		40 - 165
13C2 6:2 FTS	119		40 - 215

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 410-651279/4-A

Matrix: Solid

Analysis Batch: 651610

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 651279

Isotope Dilution	LLCS LLCS		Limits
	%Recovery	Qualifier	
13C2 8:2 FTS	92.1		40 - 275
13C3-HFPO-DA	110		40 - 130
D7-NMeFOSE	39.4		20 - 130
D9-NEtFOSE	28.5		15 - 130
d5-NEtPFOSA	58.2		10 - 130
d3-NMePFOSA	69.1		10 - 130
13C2 PFDoA	70.1		40 - 130

Lab Sample ID: MB 410-651429/1-A

Matrix: Solid

Analysis Batch: 652026

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 651429

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	ND		0.39	0.13	ng/g		06/02/25 07:37	06/03/25 20:31	1
Perfluoropentanoic acid (PFPeA)	ND		0.20	0.049	ng/g		06/02/25 07:37	06/03/25 20:31	1
Perfluorohexanoic acid (PFHxA)	ND		0.20	0.059	ng/g		06/02/25 07:37	06/03/25 20:31	1
Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.069	ng/g		06/02/25 07:37	06/03/25 20:31	1
Perfluorooctanoic acid (PFOA)	ND		0.20	0.059	ng/g		06/02/25 07:37	06/03/25 20:31	1
Perfluorononanoic acid (PFNA)	ND		0.20	0.059	ng/g		06/02/25 07:37	06/03/25 20:31	1
Perfluorodecanoic acid (PFDA)	ND		0.20	0.049	ng/g		06/02/25 07:37	06/03/25 20:31	1
Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.049	ng/g		06/02/25 07:37	06/03/25 20:31	1
Perfluorododecanoic acid (PFDoA)	ND		0.20	0.049	ng/g		06/02/25 07:37	06/03/25 20:31	1
Perfluorotridecanoic acid (PFTTrDA)	ND		0.20	0.069	ng/g		06/02/25 07:37	06/03/25 20:31	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.20	0.069	ng/g		06/02/25 07:37	06/03/25 20:31	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.069	ng/g		06/02/25 07:37	06/03/25 20:31	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.20	0.059	ng/g		06/02/25 07:37	06/03/25 20:31	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.049	ng/g		06/02/25 07:37	06/03/25 20:31	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.069	ng/g		06/02/25 07:37	06/03/25 20:31	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.20	0.11	ng/g		06/02/25 07:37	06/03/25 20:31	1
Perfluorononanesulfonic acid (PFNS)	ND		0.20	0.069	ng/g		06/02/25 07:37	06/03/25 20:31	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.049	ng/g		06/02/25 07:37	06/03/25 20:31	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.059	ng/g		06/02/25 07:37	06/03/25 20:31	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.39	0.098	ng/g		06/02/25 07:37	06/03/25 20:31	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.39	0.13	ng/g		06/02/25 07:37	06/03/25 20:31	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.39	0.13	ng/g		06/02/25 07:37	06/03/25 20:31	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.088	ng/g		06/02/25 07:37	06/03/25 20:31	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.20	0.088	ng/g		06/02/25 07:37	06/03/25 20:31	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.20	0.098	ng/g		06/02/25 07:37	06/03/25 20:31	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.20	0.078	ng/g		06/02/25 07:37	06/03/25 20:31	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.20	0.11	ng/g		06/02/25 07:37	06/03/25 20:31	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		0.98	0.29	ng/g		06/02/25 07:37	06/03/25 20:31	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 410-651429/1-A

Matrix: Solid

Analysis Batch: 652026

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 651429

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctane	ND		0.98	0.29	ng/g		06/02/25 07:37	06/03/25 20:31	1
sulfonamidoethanol (NEtFOSE)									
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.20	0.11	ng/g		06/02/25 07:37	06/03/25 20:31	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.20	0.059	ng/g		06/02/25 07:37	06/03/25 20:31	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.20	0.069	ng/g		06/02/25 07:37	06/03/25 20:31	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.20	0.049	ng/g		06/02/25 07:37	06/03/25 20:31	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.20	0.069	ng/g		06/02/25 07:37	06/03/25 20:31	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid (9Cl-PF3ONS)	ND		0.20	0.088	ng/g		06/02/25 07:37	06/03/25 20:31	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.20	0.078	ng/g		06/02/25 07:37	06/03/25 20:31	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.20	0.049	ng/g		06/02/25 07:37	06/03/25 20:31	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.39	0.20	ng/g		06/02/25 07:37	06/03/25 20:31	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		0.98	0.49	ng/g		06/02/25 07:37	06/03/25 20:31	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		0.98	0.39	ng/g		06/02/25 07:37	06/03/25 20:31	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	90.9		8 - 130	06/02/25 07:37	06/03/25 20:31	1
13C5-PFPeA	100		35 - 130	06/02/25 07:37	06/03/25 20:31	1
13C5-PFHxA	94.0		40 - 130	06/02/25 07:37	06/03/25 20:31	1
13C4-PFHpA	101		40 - 130	06/02/25 07:37	06/03/25 20:31	1
13C8-PFOA	93.9		40 - 130	06/02/25 07:37	06/03/25 20:31	1
13C9-PFNA	90.8		40 - 130	06/02/25 07:37	06/03/25 20:31	1
13C6-PFDA	79.2		40 - 130	06/02/25 07:37	06/03/25 20:31	1
13C7-PFUnA	75.5		40 - 130	06/02/25 07:37	06/03/25 20:31	1
13C2-PFTeDA	57.9		20 - 130	06/02/25 07:37	06/03/25 20:31	1
13C3-PFBS	93.8		40 - 135	06/02/25 07:37	06/03/25 20:31	1
13C3-PFHxS	83.2		40 - 130	06/02/25 07:37	06/03/25 20:31	1
13C8-PFOS	66.9		40 - 130	06/02/25 07:37	06/03/25 20:31	1
13C8-PFOSA	78.8		40 - 130	06/02/25 07:37	06/03/25 20:31	1
d3-NMeFOSAA	78.9		40 - 135	06/02/25 07:37	06/03/25 20:31	1
d5-NEtFOSAA	66.9		40 - 150	06/02/25 07:37	06/03/25 20:31	1
13C2 4:2 FTS	91.6		40 - 165	06/02/25 07:37	06/03/25 20:31	1
13C2 6:2 FTS	117		40 - 215	06/02/25 07:37	06/03/25 20:31	1
13C2 8:2 FTS	78.1		40 - 275	06/02/25 07:37	06/03/25 20:31	1
13C3-HFPO-DA	94.3		40 - 130	06/02/25 07:37	06/03/25 20:31	1
D7-NMeFOSE	42.9		20 - 130	06/02/25 07:37	06/03/25 20:31	1
D9-NEtFOSE	35.6		15 - 130	06/02/25 07:37	06/03/25 20:31	1
d5-NEtPFOSA	40.9		10 - 130	06/02/25 07:37	06/03/25 20:31	1
d3-NMePFOSA	50.4		10 - 130	06/02/25 07:37	06/03/25 20:31	1
13C2 PFDoA	58.3		40 - 130	06/02/25 07:37	06/03/25 20:31	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-651429/2-A

Matrix: Solid

Analysis Batch: 652026

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 651429

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	4.78	4.59		ng/g		96	70 - 140
Perfluoropentanoic acid (PFPeA)	2.39	2.45		ng/g		102	60 - 150
Perfluorohexanoic acid (PFHxA)	2.39	2.28		ng/g		95	65 - 140
Perfluoroheptanoic acid (PFHpA)	2.39	2.36		ng/g		99	65 - 145
Perfluorooctanoic acid (PFOA)	2.39	2.19		ng/g		91	70 - 150
Perfluorononanoic acid (PFNA)	2.39	2.22		ng/g		93	70 - 155
Perfluorodecanoic acid (PFDA)	2.39	2.16		ng/g		90	70 - 155
Perfluoroundecanoic acid (PFUnA)	2.39	2.21		ng/g		92	70 - 155
Perfluorododecanoic acid (PFDoA)	2.39	2.21		ng/g		92	70 - 150
Perfluorotridecanoic acid (PFTrDA)	2.39	1.94		ng/g		81	65 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.39	2.33		ng/g		97	65 - 150
Perfluorobutanesulfonic acid (PFBS)	2.12	1.96		ng/g		92	65 - 145
Perfluoropentanesulfonic acid (PFPeS)	2.25	2.16		ng/g		96	55 - 160
Perfluorohexanesulfonic acid (PFHxS)	2.18	1.99		ng/g		91	60 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.28	2.60		ng/g		114	65 - 155
Perfluorooctanesulfonic acid (PFOS)	2.22	2.04		ng/g		92	65 - 160
Perfluorononanesulfonic acid (PFNS)	2.30	1.68		ng/g		73	55 - 140
Perfluorodecanesulfonic acid (PFDS)	2.31	1.58		ng/g		69	40 - 155
Perfluorododecanesulfonic acid (PFDoS)	2.32	1.39		ng/g		60	25 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	4.49	3.94		ng/g		88	60 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	4.56	3.99		ng/g		88	55 - 200
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	4.59	4.15		ng/g		90	70 - 150
Perfluorooctanesulfonamide (PFOSA)	2.39	2.29		ng/g		96	70 - 140
N-methylperfluorooctane sulfonamide (NMeFOSA)	2.39	2.41		ng/g		101	70 - 155
N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.39	2.39		ng/g		100	70 - 140
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.39	2.10		ng/g		88	65 - 155
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.39	2.17		ng/g		91	65 - 165
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	12.0	10.6		ng/g		89	70 - 140
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	12.0	10.8		ng/g		90	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.79	1.75		ng/g		97	70 - 145

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-651429/2-A

Matrix: Solid

Analysis Batch: 652026

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 651429

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.26	2.23		ng/g		99	70 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.39	2.28		ng/g		96	30 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.39	2.22		ng/g		93	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.39	2.28		ng/g		95	60 - 155
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.23	1.35	*	ng/g		61	70 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.26	1.17		ng/g		52	45 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	2.13	2.28		ng/g		107	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	4.78	4.17		ng/g		87	45 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	12.0	10.7		ng/g		89	60 - 130
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	12.0	11.1		ng/g		93	60 - 150

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4-PFBA	88.1		8 - 130
13C5-PFPeA	88.5		35 - 130
13C5-PFHxA	87.1		40 - 130
13C4-PFHpA	91.7		40 - 130
13C8-PFOA	87.9		40 - 130
13C9-PFNA	84.4		40 - 130
13C6-PFDA	80.9		40 - 130
13C7-PFUnA	74.6		40 - 130
13C2-PFTeDA	56.1		20 - 130
13C3-PFBS	88.1		40 - 135
13C3-PFHxS	82.9		40 - 130
13C8-PFOS	61.1		40 - 130
13C8-PFOSA	76.5		40 - 130
d3-NMeFOSAA	80.0		40 - 135
d5-NEtFOSAA	65.5		40 - 150
13C2 4:2 FTS	91.7		40 - 165
13C2 6:2 FTS	109		40 - 215
13C2 8:2 FTS	80.7		40 - 275
13C3-HFPO-DA	87.9		40 - 130
D7-NMeFOSE	46.9		20 - 130
D9-NEtFOSE	38.3		15 - 130
d5-NEtPFOSA	46.9		10 - 130
d3-NMePFOSA	54.2		10 - 130
13C2 PFDaA	59.1		40 - 130

QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 410-651429/3-A

Matrix: Solid

Analysis Batch: 652026

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 651429

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.500	0.517		ng/g		103	70 - 140
Perfluoropentanoic acid (PFPeA)	0.250	0.256		ng/g		103	60 - 150
Perfluorohexanoic acid (PFHxA)	0.250	0.260		ng/g		104	65 - 140
Perfluoroheptanoic acid (PFHpA)	0.250	0.264		ng/g		105	65 - 145
Perfluorooctanoic acid (PFOA)	0.250	0.268		ng/g		107	70 - 150
Perfluorononanoic acid (PFNA)	0.250	0.262		ng/g		105	70 - 155
Perfluorodecanoic acid (PFDA)	0.250	0.267		ng/g		107	70 - 155
Perfluoroundecanoic acid (PFUnA)	0.250	0.250		ng/g		100	70 - 155
Perfluorododecanoic acid (PFDoA)	0.250	0.230		ng/g		92	70 - 150
Perfluorotridecanoic acid (PFTrDA)	0.250	0.208		ng/g		83	65 - 150
Perfluorotetradecanoic acid (PFTeDA)	0.250	0.275		ng/g		110	65 - 150
Perfluorobutanesulfonic acid (PFBS)	0.222	0.221		ng/g		100	65 - 145
Perfluoropentanesulfonic acid (PFPeS)	0.235	0.271		ng/g		115	55 - 160
Perfluorohexanesulfonic acid (PFHxS)	0.228	0.247		ng/g		108	60 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.239	0.290		ng/g		122	65 - 155
Perfluorooctanesulfonic acid (PFOS)	0.233	0.247		ng/g		106	65 - 160
Perfluorononanesulfonic acid (PFNS)	0.241	0.149	J	ng/g		62	55 - 140
Perfluorodecanesulfonic acid (PFDS)	0.241	0.141	J	ng/g		58	40 - 155
Perfluorododecanesulfonic acid (PFDoS)	0.243	0.123	J	ng/g		51	25 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.469	0.440		ng/g		94	60 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.476	0.404		ng/g		85	55 - 200
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.480	0.449		ng/g		94	70 - 150
Perfluorooctanesulfonamide (PFOSA)	0.250	0.231		ng/g		92	70 - 140
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.250	0.270		ng/g		108	70 - 155
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.250	0.309		ng/g		124	70 - 140
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.250	0.237		ng/g		95	65 - 155
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.250	0.240		ng/g		96	65 - 165
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.25	1.14		ng/g		91	70 - 140
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.25	1.21		ng/g		96	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.188	0.196	J	ng/g		105	70 - 145

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 410-651429/3-A

Matrix: Solid

Analysis Batch: 652026

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 651429

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.237	0.250		ng/g		106	70 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.250	0.244		ng/g		98	30 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.250	0.238		ng/g		95	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.250	0.263		ng/g		105	60 - 155
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.234	0.111	J *	ng/g		48	70 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.236	0.0846	J *	ng/g		36	45 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	0.223	0.236		ng/g		106	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.500	0.434		ng/g		87	45 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	1.25	1.12		ng/g		89	60 - 130
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1.25	1.06		ng/g		85	60 - 150

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	Limits
13C4-PFBA	90.1		8 - 130
13C5-PFPeA	95.9		35 - 130
13C5-PFHxA	94.0		40 - 130
13C4-PFHpA	98.1		40 - 130
13C8-PFOA	89.7		40 - 130
13C9-PFNA	87.8		40 - 130
13C6-PFDA	78.3		40 - 130
13C7-PFUnA	66.7		40 - 130
13C2-PFTeDA	38.8		20 - 130
13C3-PFBS	90.2		40 - 135
13C3-PFHxS	84.5		40 - 130
13C8-PFOS	52.7		40 - 130
13C8-PFOSA	75.6		40 - 130
d3-NMeFOSAA	81.3		40 - 135
d5-NEtFOSAA	68.0		40 - 150
13C2 4:2 FTS	99.0		40 - 165
13C2 6:2 FTS	117		40 - 215
13C2 8:2 FTS	82.4		40 - 275
13C3-HFPO-DA	90.7		40 - 130
D7-NMeFOSE	40.0		20 - 130
D9-NEtFOSE	31.0		15 - 130
d5-NEtPFOSA	41.4		10 - 130
d3-NMePFOSA	49.7		10 - 130
13C2 PFDaA	44.2		40 - 130

QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 410-652946/1-A

Matrix: Solid

Analysis Batch: 653393

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 652946

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.40	0.13	ng/g		06/04/25 14:32	06/05/25 11:09	1
Perfluoropentanoic acid (PFPeA)	ND		0.20	0.050	ng/g		06/04/25 14:32	06/05/25 11:09	1
Perfluorohexanoic acid (PFHxA)	ND		0.20	0.060	ng/g		06/04/25 14:32	06/05/25 11:09	1
Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.070	ng/g		06/04/25 14:32	06/05/25 11:09	1
Perfluorooctanoic acid (PFOA)	ND		0.20	0.060	ng/g		06/04/25 14:32	06/05/25 11:09	1
Perfluorononanoic acid (PFNA)	ND		0.20	0.060	ng/g		06/04/25 14:32	06/05/25 11:09	1
Perfluorodecanoic acid (PFDA)	ND		0.20	0.050	ng/g		06/04/25 14:32	06/05/25 11:09	1
Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.050	ng/g		06/04/25 14:32	06/05/25 11:09	1
Perfluorododecanoic acid (PFDoA)	ND		0.20	0.050	ng/g		06/04/25 14:32	06/05/25 11:09	1
Perfluorotridecanoic acid (PFTriDA)	ND		0.20	0.070	ng/g		06/04/25 14:32	06/05/25 11:09	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.20	0.070	ng/g		06/04/25 14:32	06/05/25 11:09	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.070	ng/g		06/04/25 14:32	06/05/25 11:09	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.20	0.060	ng/g		06/04/25 14:32	06/05/25 11:09	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.050	ng/g		06/04/25 14:32	06/05/25 11:09	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.070	ng/g		06/04/25 14:32	06/05/25 11:09	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.20	0.11	ng/g		06/04/25 14:32	06/05/25 11:09	1
Perfluorononanesulfonic acid (PFNS)	ND		0.20	0.070	ng/g		06/04/25 14:32	06/05/25 11:09	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.050	ng/g		06/04/25 14:32	06/05/25 11:09	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.060	ng/g		06/04/25 14:32	06/05/25 11:09	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.40	0.10	ng/g		06/04/25 14:32	06/05/25 11:09	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.40	0.13	ng/g		06/04/25 14:32	06/05/25 11:09	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.40	0.13	ng/g		06/04/25 14:32	06/05/25 11:09	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.090	ng/g		06/04/25 14:32	06/05/25 11:09	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.20	0.090	ng/g		06/04/25 14:32	06/05/25 11:09	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.20	0.10	ng/g		06/04/25 14:32	06/05/25 11:09	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.20	0.080	ng/g		06/04/25 14:32	06/05/25 11:09	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.20	0.11	ng/g		06/04/25 14:32	06/05/25 11:09	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.0	0.30	ng/g		06/04/25 14:32	06/05/25 11:09	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.0	0.30	ng/g		06/04/25 14:32	06/05/25 11:09	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.20	0.11	ng/g		06/04/25 14:32	06/05/25 11:09	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.20	0.060	ng/g		06/04/25 14:32	06/05/25 11:09	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.20	0.070	ng/g		06/04/25 14:32	06/05/25 11:09	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.20	0.050	ng/g		06/04/25 14:32	06/05/25 11:09	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.20	0.070	ng/g		06/04/25 14:32	06/05/25 11:09	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	ND		0.20	0.090	ng/g		06/04/25 14:32	06/05/25 11:09	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 410-652946/1-A

Matrix: Solid

Analysis Batch: 653393

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 652946

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11CI-PF3OUdS)	ND		0.20	0.080	ng/g		06/04/25 14:32	06/05/25 11:09	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.20	0.050	ng/g		06/04/25 14:32	06/05/25 11:09	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.40	0.20	ng/g		06/04/25 14:32	06/05/25 11:09	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		1.0	0.50	ng/g		06/04/25 14:32	06/05/25 11:09	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		1.0	0.40	ng/g		06/04/25 14:32	06/05/25 11:09	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	44.2		8 - 130	06/04/25 14:32	06/05/25 11:09	1
13C5-PFPeA	60.7		35 - 130	06/04/25 14:32	06/05/25 11:09	1
13C5-PFHxA	81.7		40 - 130	06/04/25 14:32	06/05/25 11:09	1
13C4-PFHpA	79.8		40 - 130	06/04/25 14:32	06/05/25 11:09	1
13C8-PFOA	74.3		40 - 130	06/04/25 14:32	06/05/25 11:09	1
13C9-PFNA	81.8		40 - 130	06/04/25 14:32	06/05/25 11:09	1
13C6-PFDA	80.1		40 - 130	06/04/25 14:32	06/05/25 11:09	1
13C7-PFUnA	84.5		40 - 130	06/04/25 14:32	06/05/25 11:09	1
13C2-PFTeDA	64.7		20 - 130	06/04/25 14:32	06/05/25 11:09	1
13C3-PFBS	73.9		40 - 135	06/04/25 14:32	06/05/25 11:09	1
13C3-PFHxS	82.6		40 - 130	06/04/25 14:32	06/05/25 11:09	1
13C8-PFOS	85.1		40 - 130	06/04/25 14:32	06/05/25 11:09	1
13C8-PFOSA	73.1		40 - 130	06/04/25 14:32	06/05/25 11:09	1
d3-NMeFOSAA	84.7		40 - 135	06/04/25 14:32	06/05/25 11:09	1
d5-NEtFOSAA	94.9		40 - 150	06/04/25 14:32	06/05/25 11:09	1
13C2 4:2 FTS	80.3		40 - 165	06/04/25 14:32	06/05/25 11:09	1
13C2 6:2 FTS	88.7		40 - 215	06/04/25 14:32	06/05/25 11:09	1
13C2 8:2 FTS	83.9		40 - 275	06/04/25 14:32	06/05/25 11:09	1
13C3-HFPO-DA	80.6		40 - 130	06/04/25 14:32	06/05/25 11:09	1
D7-NMeFOSE	52.4		20 - 130	06/04/25 14:32	06/05/25 11:09	1
D9-NEtFOSE	49.0		15 - 130	06/04/25 14:32	06/05/25 11:09	1
d5-NEtPFOSA	68.3		10 - 130	06/04/25 14:32	06/05/25 11:09	1
d3-NMePFOSA	72.0		10 - 130	06/04/25 14:32	06/05/25 11:09	1
13C2 PFDoA	80.0		40 - 130	06/04/25 14:32	06/05/25 11:09	1

Lab Sample ID: LCS 410-652946/2-A

Matrix: Solid

Analysis Batch: 653393

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 652946

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	5.00	4.31		ng/g		86	70 - 140
Perfluoropentanoic acid (PFPeA)	2.50	2.16		ng/g		86	60 - 150
Perfluorohexanoic acid (PFHxA)	2.50	2.15		ng/g		86	65 - 140
Perfluoroheptanoic acid (PFHpA)	2.50	2.39		ng/g		96	65 - 145
Perfluorooctanoic acid (PFOA)	2.50	2.26		ng/g		91	70 - 150
Perfluorononanoic acid (PFNA)	2.50	2.18		ng/g		87	70 - 155
Perfluorodecanoic acid (PFDA)	2.50	2.04		ng/g		82	70 - 155

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-652946/2-A

Matrix: Solid

Analysis Batch: 653393

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 652946

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA)	2.50	2.22		ng/g		89	70 - 155
Perfluorododecanoic acid (PFDoA)	2.50	2.25		ng/g		90	70 - 150
Perfluorotridecanoic acid (PFTrDA)	2.50	2.22		ng/g		89	65 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.50	2.16		ng/g		86	65 - 150
Perfluorobutanesulfonic acid (PFBS)	2.22	1.90		ng/g		86	65 - 145
Perfluoropentanesulfonic acid (PFPeS)	2.35	2.22		ng/g		95	55 - 160
Perfluorohexanesulfonic acid (PFHxS)	2.28	1.96		ng/g		86	60 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.39	2.05		ng/g		86	65 - 155
Perfluorooctanesulfonic acid (PFOS)	2.33	2.03		ng/g		88	65 - 160
Perfluorononanesulfonic acid (PFNS)	2.41	1.94		ng/g		81	55 - 140
Perfluorodecanesulfonic acid (PFDS)	2.41	1.97		ng/g		82	40 - 155
Perfluorododecanesulfonic acid (PFDoS)	2.43	1.52		ng/g		63	25 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	4.69	4.14		ng/g		88	60 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	4.76	4.10		ng/g		86	55 - 200
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	4.80	4.34		ng/g		90	70 - 150
Perfluorooctanesulfonamide (PFOSA)	2.50	2.41		ng/g		96	70 - 140
N-methylperfluorooctane sulfonamide (NMeFOSA)	2.50	2.41		ng/g		96	70 - 155
N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.50	2.42		ng/g		97	70 - 140
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.50	1.96		ng/g		78	65 - 155
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.50	2.23		ng/g		89	65 - 165
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	12.5	10.4		ng/g		83	70 - 140
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	12.5	11.1		ng/g		88	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.88	1.73		ng/g		92	70 - 145
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.37	2.14		ng/g		90	70 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.50	2.13		ng/g		85	30 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.50	2.19		ng/g		88	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.50	2.05		ng/g		82	60 - 155

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-652946/2-A

Matrix: Solid

Analysis Batch: 653393

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 652946

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.34	1.91		ng/g		82	70 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.36	1.71		ng/g		73	45 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	2.23	1.81		ng/g		81	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	5.00	3.93		ng/g		79	45 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	12.5	8.98		ng/g		72	60 - 130
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	12.5	9.28		ng/g		74	60 - 150

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4-PFBA	120		8 - 130
13C5-PFPeA	117		35 - 130
13C5-PFHxA	121		40 - 130
13C4-PFHpA	112		40 - 130
13C8-PFOA	107		40 - 130
13C9-PFNA	102		40 - 130
13C6-PFDA	120		40 - 130
13C7-PFUnA	105		40 - 130
13C2-PFTeDA	83.8		20 - 130
13C3-PFBS	110		40 - 135
13C3-PFHxS	102		40 - 130
13C8-PFOS	101		40 - 130
13C8-PFOSA	85.0		40 - 130
d3-NMeFOSAA	104		40 - 135
d5-NEtFOSAA	101		40 - 150
13C2 4:2 FTS	112		40 - 165
13C2 6:2 FTS	110		40 - 215
13C2 8:2 FTS	104		40 - 275
13C3-HFPO-DA	111		40 - 130
D7-NMeFOSE	54.0		20 - 130
D9-NEtFOSE	44.8		15 - 130
d5-NEtPFOSA	62.2		10 - 130
d3-NMePFOSA	71.6		10 - 130
13C2 PFDoA	92.9		40 - 130

Lab Sample ID: LLCS 410-652946/3-A

Matrix: Solid

Analysis Batch: 653393

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 652946

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.500	0.501		ng/g		100	70 - 140
Perfluoropentanoic acid (PFPeA)	0.250	0.243		ng/g		97	60 - 150
Perfluorohexanoic acid (PFHxA)	0.250	0.285		ng/g		114	65 - 140
Perfluoroheptanoic acid (PFHpA)	0.250	0.279		ng/g		112	65 - 145
Perfluorooctanoic acid (PFOA)	0.250	0.296		ng/g		118	70 - 150

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 410-652946/3-A

Matrix: Solid

Analysis Batch: 653393

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 652946

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorononanoic acid (PFNA)	0.250	0.260		ng/g		104	70 - 155
Perfluorodecanoic acid (PFDA)	0.250	0.292		ng/g		117	70 - 155
Perfluoroundecanoic acid (PFUnA)	0.250	0.257		ng/g		103	70 - 155
Perfluorododecanoic acid (PFDoA)	0.250	0.273		ng/g		109	70 - 150
Perfluorotridecanoic acid (PFTrDA)	0.250	0.263		ng/g		105	65 - 150
Perfluorotetradecanoic acid (PFTeDA)	0.250	0.258		ng/g		103	65 - 150
Perfluorobutanesulfonic acid (PFBS)	0.222	0.191	J	ng/g		86	65 - 145
Perfluoropentanesulfonic acid (PFPeS)	0.235	0.260		ng/g		111	55 - 160
Perfluorohexanesulfonic acid (PFHxS)	0.228	0.221		ng/g		97	60 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.239	0.254		ng/g		106	65 - 155
Perfluorooctanesulfonic acid (PFOS)	0.233	0.238		ng/g		102	65 - 160
Perfluorononanesulfonic acid (PFNS)	0.241	0.235		ng/g		98	55 - 140
Perfluorodecanesulfonic acid (PFDS)	0.241	0.232		ng/g		96	40 - 155
Perfluorododecanesulfonic acid (PFDoS)	0.243	0.185	J	ng/g		76	25 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.469	0.463		ng/g		99	60 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.476	0.426		ng/g		89	55 - 200
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.479	0.440		ng/g		92	70 - 150
Perfluorooctanesulfonamide (PFOSA)	0.250	0.249		ng/g		100	70 - 140
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.250	0.290		ng/g		116	70 - 155
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.250	0.277		ng/g		111	70 - 140
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.250	0.219		ng/g		88	65 - 155
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.250	0.279		ng/g		112	65 - 165
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.25	1.28		ng/g		103	70 - 140
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.25	1.26		ng/g		101	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.188	0.210		ng/g		112	70 - 145
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.237	0.254		ng/g		107	70 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.250	0.239		ng/g		96	30 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.250	0.243		ng/g		97	60 - 150

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 410-652946/3-A

Matrix: Solid

Analysis Batch: 653393

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 652946

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.250	0.253		ng/g		101	60 - 155
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.234	0.230		ng/g		99	70 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.236	0.209		ng/g		89	45 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	0.223	0.207		ng/g		93	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.500	0.430		ng/g		86	45 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	1.25	0.972	J	ng/g		78	60 - 130
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1.25	1.06		ng/g		85	60 - 150

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	Limits
13C4-PFBA	107		8 - 130
13C5-PFPeA	109		35 - 130
13C5-PFHxA	105		40 - 130
13C4-PFHpA	105		40 - 130
13C8-PFOA	102		40 - 130
13C9-PFNA	100		40 - 130
13C6-PFDA	99.3		40 - 130
13C7-PFUnA	94.7		40 - 130
13C2-PFTeDA	73.4		20 - 130
13C3-PFBS	103		40 - 135
13C3-PFHxS	99.2		40 - 130
13C8-PFOS	100		40 - 130
13C8-PFOSA	82.2		40 - 130
d3-NMeFOSAA	96.0		40 - 135
d5-NEtFOSAA	98.1		40 - 150
13C2 4:2 FTS	110		40 - 165
13C2 6:2 FTS	103		40 - 215
13C2 8:2 FTS	100		40 - 275
13C3-HFPO-DA	101		40 - 130
D7-NMeFOSE	53.8		20 - 130
D9-NEtFOSE	46.9		15 - 130
d5-NEtPFOSA	61.4		10 - 130
d3-NMePFOSA	70.6		10 - 130
13C2 PFDoA	83.8		40 - 130

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 480-747264/1-A

Matrix: Solid

Analysis Batch: 747391

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747264

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		9.9	8.6	mg/Kg		05/28/25 15:39	05/29/25 11:53	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 480-747264/1-A

Matrix: Solid

Analysis Batch: 747391

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747264

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		14.9	0.53	mg/Kg		05/28/25 15:39	05/29/25 11:53	1
Arsenic	ND		2.0	0.87	mg/Kg		05/28/25 15:39	05/29/25 11:53	1
Barium	ND		0.50	0.14	mg/Kg		05/28/25 15:39	05/29/25 11:53	1
Beryllium	ND	^5-	0.20	0.040	mg/Kg		05/28/25 15:39	05/29/25 11:53	1
Cadmium	ND		0.20	0.069	mg/Kg		05/28/25 15:39	05/29/25 11:53	1
Calcium	ND		49.6	26.8	mg/Kg		05/28/25 15:39	05/29/25 11:53	1
Chromium	ND		0.50	0.36	mg/Kg		05/28/25 15:39	05/29/25 11:53	1
Cobalt	ND		0.50	0.099	mg/Kg		05/28/25 15:39	05/29/25 11:53	1
Copper	ND		0.99	0.57	mg/Kg		05/28/25 15:39	05/29/25 11:53	1
Iron	ND		9.9	8.4	mg/Kg		05/28/25 15:39	05/29/25 11:53	1
Lead	ND		0.99	0.46	mg/Kg		05/28/25 15:39	05/29/25 11:53	1
Magnesium	ND		19.8	8.4	mg/Kg		05/28/25 15:39	05/29/25 11:53	1
Manganese	ND		0.99	0.28	mg/Kg		05/28/25 15:39	05/29/25 11:53	1
Nickel	ND	^5-	5.0	0.25	mg/Kg		05/28/25 15:39	05/29/25 11:53	1
Potassium	ND		29.8	24.1	mg/Kg		05/28/25 15:39	05/29/25 11:53	1
Selenium	ND		4.0	0.79	mg/Kg		05/28/25 15:39	05/29/25 11:53	1
Silver	ND	^5-	0.60	0.20	mg/Kg		05/28/25 15:39	05/29/25 11:53	1
Sodium	ND		139	60.8	mg/Kg		05/28/25 15:39	05/29/25 11:53	1
Thallium	ND		6.0	0.75	mg/Kg		05/28/25 15:39	05/29/25 11:53	1
Vanadium	ND		0.50	0.13	mg/Kg		05/28/25 15:39	05/29/25 11:53	1
Zinc	ND	^5-	2.0	1.0	mg/Kg		05/28/25 15:39	05/29/25 11:53	1

Lab Sample ID: LCSSRM 480-747264/2-A

Matrix: Solid

Analysis Batch: 747391

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747264

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	7680	8333		mg/Kg		108.5	47.4 - 130.2
Antimony	201	70.30		mg/Kg		35.0	0.06 - 100.0
Arsenic	181	137.5		mg/Kg		76.0	66.3 - 97.8
Barium	211	180.4		mg/Kg		85.5	73.9 - 107.1
Beryllium	270	234.9		mg/Kg		87.0	73.0 - 104.4
Cadmium	221	177.4		mg/Kg		80.3	70.6 - 101.8
Calcium	4280	3916		mg/Kg		91.5	77.3 - 111.0
Chromium	149	129.1		mg/Kg		86.6	71.8 - 105.4
Cobalt	142	136.1		mg/Kg		95.8	73.2 - 104.2
Copper	264	217.2		mg/Kg		82.3	73.5 - 104.2
Iron	7360	7037		mg/Kg		95.6	55.4 - 130.3
Lead	106	101.1		mg/Kg		95.3	76.1 - 109.4
Magnesium	2170	1976		mg/Kg		91.1	68.7 - 112.0

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-747264/2-A

Matrix: Solid

Analysis Batch: 747391

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747264

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	270	241.4		mg/Kg		89.4	73.0 - 107.8
Nickel	177	155.7		mg/Kg		88.0	71.8 - 103.4
Potassium	2340	2212		mg/Kg		94.5	62.8 - 113.7
Selenium	139	112.3		mg/Kg		80.8	70.0 - 107.9
Silver	59.9	49.51		mg/Kg		82.7	72.8 - 110.7
Sodium	306	284.5		mg/Kg		93.0	66.0 - 113.4
Thallium	205	197.7		mg/Kg		96.4	71.7 - 106.8
Vanadium	155	134.9		mg/Kg		87.0	69.0 - 107.7
Zinc	398	336.2		mg/Kg		84.5	68.8 - 104.5

Lab Sample ID: MB 480-747266/1-A

Matrix: Solid

Analysis Batch: 747461

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747266

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10.4	8.9	mg/Kg		05/28/25 15:39	05/29/25 18:47	1
Antimony	ND		15.5	0.55	mg/Kg		05/28/25 15:39	05/29/25 18:47	1
Arsenic	ND		2.1	0.91	mg/Kg		05/28/25 15:39	05/29/25 18:47	1
Barium	ND		0.52	0.14	mg/Kg		05/28/25 15:39	05/29/25 18:47	1
Beryllium	ND	^5-	0.21	0.041	mg/Kg		05/28/25 15:39	05/29/25 18:47	1
Cadmium	ND		0.21	0.072	mg/Kg		05/28/25 15:39	05/29/25 18:47	1
Calcium	ND	^5-	51.8	27.9	mg/Kg		05/28/25 15:39	05/29/25 18:47	1
Chromium	ND	^5-	0.52	0.37	mg/Kg		05/28/25 15:39	05/29/25 18:47	1
Cobalt	ND		0.52	0.10	mg/Kg		05/28/25 15:39	05/29/25 18:47	1
Copper	ND		1.0	0.59	mg/Kg		05/28/25 15:39	05/29/25 18:47	1
Iron	ND	^5-	10.4	8.8	mg/Kg		05/28/25 15:39	05/29/25 18:47	1
Lead	ND		1.0	0.48	mg/Kg		05/28/25 15:39	05/29/25 18:47	1
Magnesium	ND		20.7	8.8	mg/Kg		05/28/25 15:39	05/29/25 18:47	1
Manganese	ND	^5-	1.0	0.29	mg/Kg		05/28/25 15:39	05/29/25 18:47	1
Nickel	ND	^5-	5.2	0.26	mg/Kg		05/28/25 15:39	05/29/25 18:47	1
Potassium	ND		31.1	25.1	mg/Kg		05/28/25 15:39	05/29/25 18:47	1
Selenium	ND		4.1	0.83	mg/Kg		05/28/25 15:39	05/29/25 18:47	1
Silver	ND	^5-	0.62	0.21	mg/Kg		05/28/25 15:39	05/29/25 18:47	1
Sodium	ND		145	63.5	mg/Kg		05/28/25 15:39	05/29/25 18:47	1
Thallium	ND		6.2	0.79	mg/Kg		05/28/25 15:39	05/29/25 18:47	1
Vanadium	ND	^5-	0.52	0.13	mg/Kg		05/28/25 15:39	05/29/25 18:47	1
Zinc	ND	^5-	2.1	1.1	mg/Kg		05/28/25 15:39	05/29/25 18:47	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-747266/2-A

Matrix: Solid

Analysis Batch: 747461

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747266

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	7680	7947		mg/Kg		103.5	47.4 - 130.2
Antimony	201	70.85		mg/Kg		35.2	0.06 - 100.0
Arsenic	181	132.0		mg/Kg		72.9	66.3 - 97.8
Barium	211	176.9		mg/Kg		83.8	73.9 - 107.1
Beryllium	270	228.1		mg/Kg		84.5	73.0 - 104.4
Cadmium	221	169.9		mg/Kg		76.9	70.6 - 101.8
Calcium	4280	3778		mg/Kg		88.3	77.3 - 111.0
Chromium	149	126.9		mg/Kg		85.2	71.8 - 105.4
Cobalt	142	128.0		mg/Kg		90.1	73.2 - 104.2
Copper	264	215.2		mg/Kg		81.5	73.5 - 104.2
Iron	7360	6236		mg/Kg		84.7	55.4 - 130.3
Lead	106	91.20		mg/Kg		86.0	76.1 - 109.4
Magnesium	2170	1819		mg/Kg		83.8	68.7 - 112.0
Manganese	270	206.6		mg/Kg		76.5	73.0 - 107.8
Nickel	177	150.7		mg/Kg		85.1	71.8 - 103.4
Potassium	2340	2131		mg/Kg		91.1	62.8 - 113.7
Selenium	139	103.5		mg/Kg		74.5	70.0 - 107.9
Silver	59.9	48.70		mg/Kg		81.3	72.8 - 110.7
Sodium	306	270.5		mg/Kg		88.4	66.0 - 113.4
Thallium	205	175.0		mg/Kg		85.4	71.7 - 106.8
Vanadium	155	130.2		mg/Kg		84.0	69.0 - 107.7
Zinc	398	325.6		mg/Kg		81.8	68.8 - 104.5

Lab Sample ID: MB 480-747297/1-A

Matrix: Solid

Analysis Batch: 747639

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747297

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		9.9	8.5	mg/Kg		05/29/25 15:23	05/30/25 22:12	1
Antimony	ND		14.8	0.52	mg/Kg		05/29/25 15:23	05/30/25 22:12	1
Arsenic	ND		2.0	0.87	mg/Kg		05/29/25 15:23	05/30/25 22:12	1
Barium	ND		0.49	0.14	mg/Kg		05/29/25 15:23	05/30/25 22:12	1
Beryllium	ND	^5-	0.20	0.039	mg/Kg		05/29/25 15:23	05/30/25 22:12	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 480-747297/1-A
Matrix: Solid
Analysis Batch: 747639

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 747297

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.20	0.069	mg/Kg		05/29/25 15:23	05/30/25 22:12	1
Calcium	ND	^5-	49.4	26.6	mg/Kg		05/29/25 15:23	05/30/25 22:12	1
Chromium	ND		0.49	0.36	mg/Kg		05/29/25 15:23	05/30/25 22:12	1
Cobalt	ND		0.49	0.099	mg/Kg		05/29/25 15:23	05/30/25 22:12	1
Copper	ND		0.99	0.56	mg/Kg		05/29/25 15:23	05/30/25 22:12	1
Iron	ND	^+	9.9	8.4	mg/Kg		05/29/25 15:23	05/30/25 22:12	1
Lead	ND		0.99	0.45	mg/Kg		05/29/25 15:23	05/30/25 22:12	1
Magnesium	ND		19.7	8.4	mg/Kg		05/29/25 15:23	05/30/25 22:12	1
Manganese	ND	^5-	0.99	0.28	mg/Kg		05/29/25 15:23	05/30/25 22:12	1
Nickel	ND	^5-	4.9	0.25	mg/Kg		05/29/25 15:23	05/30/25 22:12	1
Potassium	ND		29.6	23.9	mg/Kg		05/29/25 15:23	05/30/25 22:12	1
Selenium	ND		3.9	0.79	mg/Kg		05/29/25 15:23	05/30/25 22:12	1
Thallium	ND		5.9	0.75	mg/Kg		05/29/25 15:23	05/30/25 22:12	1
Vanadium	ND		0.49	0.13	mg/Kg		05/29/25 15:23	05/30/25 22:12	1
Zinc	ND	^5-	2.0	1.0	mg/Kg		05/29/25 15:23	05/30/25 22:12	1

Lab Sample ID: MB 480-747297/1-A
Matrix: Solid
Analysis Batch: 747956

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 747297

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND	^5-	0.59	0.20	mg/Kg		05/29/25 15:23	06/04/25 19:18	1
Sodium	ND		138	60.5	mg/Kg		05/29/25 15:23	06/04/25 19:18	1

Lab Sample ID: LCSSRM 480-747297/2-A
Matrix: Solid
Analysis Batch: 747639

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 747297

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	7680	8484		mg/Kg		110.5	47.4 - 130.2
Antimony	201	71.50		mg/Kg		35.6	0.06 - 100.0
Arsenic	181	132.5		mg/Kg		73.2	66.3 - 97.8
Barium	211	187.4		mg/Kg		88.8	73.9 - 107.1
Beryllium	270	236.2		mg/Kg		87.5	73.0 - 104.4
Cadmium	221	169.9		mg/Kg		76.9	70.6 - 101.8
Calcium	4280	3991		mg/Kg		93.2	77.3 - 111.0
Chromium	149	130.5		mg/Kg		87.6	71.8 - 105.4
Cobalt	142	134.3		mg/Kg		94.6	73.2 - 104.2
Copper	264	217.1		mg/Kg		82.2	73.5 - 104.2
Iron	7360	7394	^+	mg/Kg		100.5	55.4 - 130.3
Lead	106	101.4		mg/Kg		95.7	76.1 - 109.4

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-747297/2-A

Matrix: Solid

Analysis Batch: 747639

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747297

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Magnesium	2170	2049		mg/Kg		94.4	68.7 - 112.0
Manganese	270	224.9		mg/Kg		83.3	73.0 - 107.8
Nickel	177	156.2		mg/Kg		88.2	71.8 - 103.4
Potassium	2340	2276		mg/Kg		97.3	62.8 - 113.7
Selenium	139	106.1		mg/Kg		76.4	70.0 - 107.9
Thallium	205	178.1		mg/Kg		86.9	71.7 - 106.8
Vanadium	155	137.1		mg/Kg		88.4	69.0 - 107.7
Zinc	398	342.4		mg/Kg		86.0	68.8 - 104.5

Lab Sample ID: LCSSRM 480-747297/2-A

Matrix: Solid

Analysis Batch: 747956

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747297

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Silver	59.9	55.38		mg/Kg		92.5	72.8 - 110.7
Sodium	306	297.6		mg/Kg		97.2	66.0 - 113.4

Lab Sample ID: 480-229710-28 MS

Matrix: Solid

Analysis Batch: 747639

Client Sample ID: RI-BH-6 Native

Prep Type: Total/NA

Prep Batch: 747297

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	13900		1100	20750	4	mg/Kg	✱	628	75 - 125
Antimony	1.5	J F1	108	47.74	F1	mg/Kg	✱	43	75 - 125
Arsenic	10.7		215	181.0		mg/Kg	✱	79	75 - 125
Barium	117	F1	215	271.7	F1	mg/Kg	✱	72	75 - 125
Beryllium	1.0	^5-	107	95.52	^5-	mg/Kg	✱	89	75 - 125
Cadmium	0.17	J	108	88.58		mg/Kg	✱	82	75 - 125
Calcium	270	^5-	5380	4787	^5-	mg/Kg	✱	84	75 - 125
Chromium	20.3		108	117.3		mg/Kg	✱	90	75 - 125
Cobalt	12.9		108	111.6		mg/Kg	✱	92	75 - 125
Copper	42.0		108	138.4		mg/Kg	✱	90	75 - 125
Iron	40300	^2 ^+	1100	40870	^+ 4	mg/Kg	✱	49	75 - 125
Lead	18.3		108	122.6		mg/Kg	✱	97	75 - 125
Magnesium	3750		5380	8611		mg/Kg	✱	90	75 - 125
Manganese	125	^5-	108	216.6	^5-	mg/Kg	✱	85	75 - 125
Nickel	33.6	^5-	108	121.9	^5-	mg/Kg	✱	82	75 - 125
Potassium	2910		5380	9069		mg/Kg	✱	115	75 - 125
Selenium	1.6	J	215	163.7		mg/Kg	✱	75	75 - 125
Thallium	ND		215	166.1		mg/Kg	✱	77	75 - 125
Vanadium	27.2		108	132.1		mg/Kg	✱	98	75 - 125
Zinc	44.2	^5-	108	129.4	^5-	mg/Kg	✱	79	75 - 125

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 6010D - Metals (ICP)

Lab Sample ID: 480-229710-28 MS

Matrix: Solid

Analysis Batch: 747956

Client Sample ID: RI-BH-6 Native

Prep Type: Total/NA

Prep Batch: 747297

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	45.2		108	150.4		mg/Kg	✱	98	75 - 125
Silver	ND	^5-	10.8	9.60	^5-	mg/Kg	✱	89	75 - 125
Sodium	133	J	5380	5060		mg/Kg	✱	92	75 - 125

Lab Sample ID: 480-229710-28 MSD

Matrix: Solid

Analysis Batch: 747639

Client Sample ID: RI-BH-6 Native

Prep Type: Total/NA

Prep Batch: 747297

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	13900		1070	21620	4	mg/Kg	✱	725	75 - 125	4	20
Antimony	1.5	J F1	105	42.85	F1	mg/Kg	✱	39	75 - 125	11	20
Arsenic	10.7		210	174.1		mg/Kg	✱	78	75 - 125	4	20
Barium	117	F1	210	236.1	F1	mg/Kg	✱	57	75 - 125	14	20
Beryllium	1.0	^5-	104	92.09	^5-	mg/Kg	✱	88	75 - 125	4	20
Cadmium	0.17	J	105	84.92		mg/Kg	✱	81	75 - 125	4	20
Calcium	270	^5-	5240	4647	^5-	mg/Kg	✱	84	75 - 125	3	20
Chromium	20.3		105	113.7		mg/Kg	✱	89	75 - 125	3	20
Cobalt	12.9		105	108.7		mg/Kg	✱	91	75 - 125	3	20
Copper	42.0		105	131.4		mg/Kg	✱	85	75 - 125	5	20
Iron	40300	^2 ^+	1070	36310	^+ 4	mg/Kg	✱	-376	75 - 125	12	20
Lead	18.3		105	116.7		mg/Kg	✱	94	75 - 125	5	20
Magnesium	3750		5240	8563		mg/Kg	✱	92	75 - 125	1	20
Manganese	125	^5-	105	212.4	^5-	mg/Kg	✱	84	75 - 125	2	20
Nickel	33.6	^5-	105	118.7	^5-	mg/Kg	✱	81	75 - 125	3	20
Potassium	2910		5240	9404		mg/Kg	✱	124	75 - 125	4	20
Selenium	1.6	J	210	158.5		mg/Kg	✱	75	75 - 125	3	20
Thallium	ND		210	163.4		mg/Kg	✱	78	75 - 125	2	20
Vanadium	27.2		105	130.1		mg/Kg	✱	98	75 - 125	1	20
Zinc	44.2	^5-	105	127.2	^5-	mg/Kg	✱	79	75 - 125	2	20

Lab Sample ID: 480-229710-28 MSD

Matrix: Solid

Analysis Batch: 747956

Client Sample ID: RI-BH-6 Native

Prep Type: Total/NA

Prep Batch: 747297

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Copper	45.2		105	145.2		mg/Kg	✱	95	75 - 125	4	20
Silver	ND	^5-	10.5	9.73	^5-	mg/Kg	✱	93	75 - 125	1	20
Sodium	133	J	5240	4979		mg/Kg	✱	92	75 - 125	2	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-747515/1-A

Matrix: Solid

Analysis Batch: 747573

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747515

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.0047	mg/Kg		05/30/25 13:38	05/30/25 15:12	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: LCSSRM 480-747515/2-A ^10

Matrix: Solid

Analysis Batch: 747573

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747515

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	24.0	19.20		mg/Kg		80.0	55.8 - 109.6

Lab Sample ID: MB 480-747527/1-A

Matrix: Solid

Analysis Batch: 747573

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747527

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.021	0.0048	mg/Kg		05/30/25 13:38	05/30/25 15:49	1

Lab Sample ID: LCSSRM 480-747527/2-A ^10

Matrix: Solid

Analysis Batch: 747573

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747527

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	24.0	17.58		mg/Kg		73.3	55.8 - 109.6

Lab Sample ID: MB 480-747528/1-A

Matrix: Solid

Analysis Batch: 747573

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747528

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.021	0.0047	mg/Kg		05/30/25 13:38	05/30/25 16:26	1

Lab Sample ID: LCSSRM 480-747528/2-A ^10

Matrix: Solid

Analysis Batch: 747573

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747528

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	24.0	17.14		mg/Kg		71.4	55.8 - 109.6

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 480-747417/1-A

Matrix: Solid

Analysis Batch: 747507

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747417

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.93	0.45	mg/Kg		05/29/25 12:55	05/29/25 20:15	1

Lab Sample ID: LCS 480-747417/4-A

Matrix: Solid

Analysis Batch: 747507

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747417

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.384		mg/Kg		96	29 - 122

Eurofins Buffalo

QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 9012B - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LCS 480-747417/5-A

Matrix: Solid

Analysis Batch: 747507

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747417

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.245		mg/Kg		98	29 - 122

Lab Sample ID: LCSSRM 480-747417/3-A

Matrix: Solid

Analysis Batch: 747507

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747417

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	150	104.3		mg/Kg		69.6	38.9 - 138.7

Lab Sample ID: MB 480-747600/1-A

Matrix: Solid

Analysis Batch: 747605

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747600

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.98	0.47	mg/Kg		05/31/25 12:17	05/31/25 17:19	1

Lab Sample ID: LCS 480-747600/3-A

Matrix: Solid

Analysis Batch: 747605

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747600

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.382		mg/Kg		96	29 - 122

Lab Sample ID: LCS 480-747600/4-A

Matrix: Solid

Analysis Batch: 747605

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747600

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.239		mg/Kg		96	29 - 122

Lab Sample ID: LCSSRM 480-747600/2-A

Matrix: Solid

Analysis Batch: 747605

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747600

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	150	108.6		mg/Kg		72.4	38.9 - 138.7

Lab Sample ID: 480-229710-11 MS

Matrix: Solid

Analysis Batch: 747605

Client Sample ID: RI-BH-14 Fill

Prep Type: Total/NA

Prep Batch: 747600

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	ND	F1	1.32	1.93	F1	mg/Kg	✱	146	85 - 115

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method: 9012B - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: 480-229710-24 MS

Matrix: Solid

Analysis Batch: 747605

Client Sample ID: RI-BH-4 Fill

Prep Type: Total/NA

Prep Batch: 747600

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	ND	F1	1.37	1.89	F1	mg/Kg	✱	138	85 - 115

Lab Sample ID: 480-229710-11 DU

Matrix: Solid

Analysis Batch: 747605

Client Sample ID: RI-BH-14 Fill

Prep Type: Total/NA

Prep Batch: 747600

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Cyanide, Total	ND	F1	ND		mg/Kg	✱	NC	15

Lab Sample ID: MB 480-747601/1-A

Matrix: Solid

Analysis Batch: 747605

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747601

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.99	0.48	mg/Kg		05/31/25 13:30	05/31/25 17:40	1

Lab Sample ID: LCSSRM 480-747601/2-A

Matrix: Solid

Analysis Batch: 747605

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747601

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	150	79.27		mg/Kg		52.8	38.9 - 138.7

Lab Sample ID: 480-229710-25 MS

Matrix: Solid

Analysis Batch: 747605

Client Sample ID: RI-BH-5 Fill

Prep Type: Total/NA

Prep Batch: 747601

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	1.0		1.22	2.33		mg/Kg	✱	105	85 - 115

Lab Sample ID: 480-229710-25 DU

Matrix: Solid

Analysis Batch: 747605

Client Sample ID: RI-BH-5 Fill

Prep Type: Total/NA

Prep Batch: 747601

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Cyanide, Total	1.0		ND		mg/Kg	✱	NC	15

QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

GC/MS VOA

Prep Batch: 747319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-1	RI-BH-7 Native	Total/NA	Solid	5035A_L	
480-229710-2	RI-BH-8 Fill	Total/NA	Solid	5035A_L	
480-229710-3	RI-BH-8 Native	Total/NA	Solid	5035A_L	
480-229710-7	RI-BH-11 Fill	Total/NA	Solid	5035A_L	
480-229710-8	RI-BH-11 Native	Total/NA	Solid	5035A_L	
480-229710-9	RI-BH-12 Fill	Total/NA	Solid	5035A_L	
480-229710-10	RI-BH-13 Fill	Total/NA	Solid	5035A_L	
480-229710-11	RI-BH-14 Fill	Total/NA	Solid	5035A_L	
480-229710-12	RI-BH-15 Fill	Total/NA	Solid	5035A_L	
480-229710-13	RI-BH-15 Native	Total/NA	Solid	5035A_L	
480-229710-14	RI-BH-16 Fill	Total/NA	Solid	5035A_L	
480-229710-15	RI-BH-17 Fill	Total/NA	Solid	5035A_L	
480-229710-16	RI-BH-17 Native	Total/NA	Solid	5035A_L	
480-229710-17	RI-BH-18 Fill	Total/NA	Solid	5035A_L	
480-229710-18	RI-BH-18 Native	Total/NA	Solid	5035A_L	
MB 480-747319/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-747319/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	
480-229710-1 MS	RI-BH-7 Native	Total/NA	Solid	5035A_L	
480-229710-1 MSD	RI-BH-7 Native	Total/NA	Solid	5035A_L	

Analysis Batch: 747320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-1	RI-BH-7 Native	Total/NA	Solid	8260C	747319
480-229710-2	RI-BH-8 Fill	Total/NA	Solid	8260C	747319
480-229710-3	RI-BH-8 Native	Total/NA	Solid	8260C	747319
480-229710-7	RI-BH-11 Fill	Total/NA	Solid	8260C	747319
480-229710-8	RI-BH-11 Native	Total/NA	Solid	8260C	747319
480-229710-9	RI-BH-12 Fill	Total/NA	Solid	8260C	747319
480-229710-10	RI-BH-13 Fill	Total/NA	Solid	8260C	747319
480-229710-11	RI-BH-14 Fill	Total/NA	Solid	8260C	747319
480-229710-12	RI-BH-15 Fill	Total/NA	Solid	8260C	747319
480-229710-13	RI-BH-15 Native	Total/NA	Solid	8260C	747319
480-229710-14	RI-BH-16 Fill	Total/NA	Solid	8260C	747319
480-229710-15	RI-BH-17 Fill	Total/NA	Solid	8260C	747319
480-229710-16	RI-BH-17 Native	Total/NA	Solid	8260C	747319
480-229710-17	RI-BH-18 Fill	Total/NA	Solid	8260C	747319
480-229710-18	RI-BH-18 Native	Total/NA	Solid	8260C	747319
MB 480-747319/2-A	Method Blank	Total/NA	Solid	8260C	747319
LCS 480-747319/1-A	Lab Control Sample	Total/NA	Solid	8260C	747319
480-229710-1 MS	RI-BH-7 Native	Total/NA	Solid	8260C	747319
480-229710-1 MSD	RI-BH-7 Native	Total/NA	Solid	8260C	747319

Prep Batch: 747322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-20	RI-BH-1 Native	Total/NA	Solid	5035A_L	
480-229710-22	RI-BH-2 Native	Total/NA	Solid	5035A_L	
480-229710-26	RI-BH-5 Native	Total/NA	Solid	5035A_L	
480-229710-27	RI-BH-6 Fill	Total/NA	Solid	5035A_L	
MB 480-747322/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-747322/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

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QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

GC/MS VOA

Analysis Batch: 747323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-20	RI-BH-1 Native	Total/NA	Solid	8260C	747322
480-229710-22	RI-BH-2 Native	Total/NA	Solid	8260C	747322
480-229710-26	RI-BH-5 Native	Total/NA	Solid	8260C	747322
480-229710-27	RI-BH-6 Fill	Total/NA	Solid	8260C	747322
MB 480-747322/2-A	Method Blank	Total/NA	Solid	8260C	747322
LCS 480-747322/1-A	Lab Control Sample	Total/NA	Solid	8260C	747322

Prep Batch: 747438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-19	RI-BH-1 Fill	Total/NA	Solid	5035A_L	
480-229710-21	RI-BH-2 Fill	Total/NA	Solid	5035A_L	
480-229710-23	RI-BH-3 Fill	Total/NA	Solid	5035A_L	
480-229710-24	RI-BH-4 Fill	Total/NA	Solid	5035A_L	
480-229710-25	RI-BH-5 Fill	Total/NA	Solid	5035A_L	
480-229710-28	RI-BH-6 Native	Total/NA	Solid	5035A_L	
480-229710-29	RI-BH-7 Fill	Total/NA	Solid	5035A_L	
MB 480-747438/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-747438/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

Analysis Batch: 747441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-19	RI-BH-1 Fill	Total/NA	Solid	8260C	747438
480-229710-21	RI-BH-2 Fill	Total/NA	Solid	8260C	747438
480-229710-23	RI-BH-3 Fill	Total/NA	Solid	8260C	747438
480-229710-24	RI-BH-4 Fill	Total/NA	Solid	8260C	747438
480-229710-25	RI-BH-5 Fill	Total/NA	Solid	8260C	747438
480-229710-28	RI-BH-6 Native	Total/NA	Solid	8260C	747438
480-229710-29	RI-BH-7 Fill	Total/NA	Solid	8260C	747438
MB 480-747438/2-A	Method Blank	Total/NA	Solid	8260C	747438
LCS 480-747438/1-A	Lab Control Sample	Total/NA	Solid	8260C	747438

GC/MS Semi VOA

Prep Batch: 747406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-1	RI-BH-7 Native	Total/NA	Solid	3546	
480-229710-2	RI-BH-8 Fill	Total/NA	Solid	3546	
480-229710-2 - DL	RI-BH-8 Fill	Total/NA	Solid	3546	
480-229710-3	RI-BH-8 Native	Total/NA	Solid	3546	
480-229710-7	RI-BH-11 Fill	Total/NA	Solid	3546	
480-229710-8	RI-BH-11 Native	Total/NA	Solid	3546	
480-229710-9	RI-BH-12 Fill	Total/NA	Solid	3546	
480-229710-10	RI-BH-13 Fill	Total/NA	Solid	3546	
480-229710-11	RI-BH-14 Fill	Total/NA	Solid	3546	
480-229710-12	RI-BH-15 Fill	Total/NA	Solid	3546	
480-229710-13	RI-BH-15 Native	Total/NA	Solid	3546	
480-229710-14	RI-BH-16 Fill	Total/NA	Solid	3546	
480-229710-15	RI-BH-17 Fill	Total/NA	Solid	3546	
480-229710-16	RI-BH-17 Native	Total/NA	Solid	3546	
480-229710-17	RI-BH-18 Fill	Total/NA	Solid	3546	
480-229710-18	RI-BH-18 Native	Total/NA	Solid	3546	

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QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

GC/MS Semi VOA (Continued)

Prep Batch: 747406 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-19	RI-BH-1 Fill	Total/NA	Solid	3546	
480-229710-20	RI-BH-1 Native	Total/NA	Solid	3546	
480-229710-21	RI-BH-2 Fill	Total/NA	Solid	3546	
480-229710-22	RI-BH-2 Native	Total/NA	Solid	3546	
480-229710-23	RI-BH-3 Fill	Total/NA	Solid	3546	
MB 480-747406/1-A	Method Blank	Total/NA	Solid	3546	
LCS 480-747406/2-A	Lab Control Sample	Total/NA	Solid	3546	
480-229710-3 MS	RI-BH-8 Native	Total/NA	Solid	3546	
480-229710-3 MSD	RI-BH-8 Native	Total/NA	Solid	3546	

Prep Batch: 747407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-24	RI-BH-4 Fill	Total/NA	Solid	3546	
480-229710-25	RI-BH-5 Fill	Total/NA	Solid	3546	
480-229710-26	RI-BH-5 Native	Total/NA	Solid	3546	
480-229710-27	RI-BH-6 Fill	Total/NA	Solid	3546	
480-229710-28	RI-BH-6 Native	Total/NA	Solid	3546	
480-229710-29	RI-BH-7 Fill	Total/NA	Solid	3546	
480-229710-29 - DL	RI-BH-7 Fill	Total/NA	Solid	3546	
MB 480-747407/1-A	Method Blank	Total/NA	Solid	3546	
LCS 480-747407/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 747473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-24	RI-BH-4 Fill	Total/NA	Solid	8270D	747407
480-229710-25	RI-BH-5 Fill	Total/NA	Solid	8270D	747407
480-229710-26	RI-BH-5 Native	Total/NA	Solid	8270D	747407
480-229710-27	RI-BH-6 Fill	Total/NA	Solid	8270D	747407
480-229710-28	RI-BH-6 Native	Total/NA	Solid	8270D	747407
480-229710-29	RI-BH-7 Fill	Total/NA	Solid	8270D	747407
MB 480-747407/1-A	Method Blank	Total/NA	Solid	8270D	747407
LCS 480-747407/2-A	Lab Control Sample	Total/NA	Solid	8270D	747407

Analysis Batch: 747476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-1	RI-BH-7 Native	Total/NA	Solid	8270D	747406
480-229710-2	RI-BH-8 Fill	Total/NA	Solid	8270D	747406
480-229710-3	RI-BH-8 Native	Total/NA	Solid	8270D	747406
480-229710-7	RI-BH-11 Fill	Total/NA	Solid	8270D	747406
480-229710-8	RI-BH-11 Native	Total/NA	Solid	8270D	747406
480-229710-9	RI-BH-12 Fill	Total/NA	Solid	8270D	747406
480-229710-10	RI-BH-13 Fill	Total/NA	Solid	8270D	747406
480-229710-11	RI-BH-14 Fill	Total/NA	Solid	8270D	747406
480-229710-12	RI-BH-15 Fill	Total/NA	Solid	8270D	747406
480-229710-13	RI-BH-15 Native	Total/NA	Solid	8270D	747406
480-229710-14	RI-BH-16 Fill	Total/NA	Solid	8270D	747406
480-229710-15	RI-BH-17 Fill	Total/NA	Solid	8270D	747406
480-229710-16	RI-BH-17 Native	Total/NA	Solid	8270D	747406
480-229710-17	RI-BH-18 Fill	Total/NA	Solid	8270D	747406
480-229710-18	RI-BH-18 Native	Total/NA	Solid	8270D	747406
480-229710-19	RI-BH-1 Fill	Total/NA	Solid	8270D	747406

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QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

GC/MS Semi VOA (Continued)

Analysis Batch: 747476 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-20	RI-BH-1 Native	Total/NA	Solid	8270D	747406
480-229710-21	RI-BH-2 Fill	Total/NA	Solid	8270D	747406
480-229710-22	RI-BH-2 Native	Total/NA	Solid	8270D	747406
480-229710-23	RI-BH-3 Fill	Total/NA	Solid	8270D	747406
MB 480-747406/1-A	Method Blank	Total/NA	Solid	8270D	747406
LCS 480-747406/2-A	Lab Control Sample	Total/NA	Solid	8270D	747406
480-229710-3 MS	RI-BH-8 Native	Total/NA	Solid	8270D	747406
480-229710-3 MSD	RI-BH-8 Native	Total/NA	Solid	8270D	747406

Analysis Batch: 747628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-2 - DL	RI-BH-8 Fill	Total/NA	Solid	8270D	747406
480-229710-29 - DL	RI-BH-7 Fill	Total/NA	Solid	8270D	747407

GC Semi VOA

Prep Batch: 747333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-1	RI-BH-7 Native	Total/NA	Solid	3546	
480-229710-2	RI-BH-8 Fill	Total/NA	Solid	3546	
480-229710-3	RI-BH-8 Native	Total/NA	Solid	3546	
480-229710-7	RI-BH-11 Fill	Total/NA	Solid	3546	
480-229710-8	RI-BH-11 Native	Total/NA	Solid	3546	
480-229710-9	RI-BH-12 Fill	Total/NA	Solid	3546	
480-229710-10	RI-BH-13 Fill	Total/NA	Solid	3546	
480-229710-11	RI-BH-14 Fill	Total/NA	Solid	3546	
480-229710-12	RI-BH-15 Fill	Total/NA	Solid	3546	
480-229710-13	RI-BH-15 Native	Total/NA	Solid	3546	
480-229710-14	RI-BH-16 Fill	Total/NA	Solid	3546	
480-229710-15	RI-BH-17 Fill	Total/NA	Solid	3546	
480-229710-16	RI-BH-17 Native	Total/NA	Solid	3546	
480-229710-17	RI-BH-18 Fill	Total/NA	Solid	3546	
480-229710-18	RI-BH-18 Native	Total/NA	Solid	3546	
480-229710-19	RI-BH-1 Fill	Total/NA	Solid	3546	
480-229710-20	RI-BH-1 Native	Total/NA	Solid	3546	
480-229710-21	RI-BH-2 Fill	Total/NA	Solid	3546	
480-229710-22	RI-BH-2 Native	Total/NA	Solid	3546	
480-229710-23	RI-BH-3 Fill	Total/NA	Solid	3546	
MB 480-747333/1-A	Method Blank	Total/NA	Solid	3546	
LCS 480-747333/2-A	Lab Control Sample	Total/NA	Solid	3546	
480-229710-1 MS	RI-BH-7 Native	Total/NA	Solid	3546	
480-229710-1 MSD	RI-BH-7 Native	Total/NA	Solid	3546	

Prep Batch: 747334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-24	RI-BH-4 Fill	Total/NA	Solid	3546	
480-229710-25	RI-BH-5 Fill	Total/NA	Solid	3546	
480-229710-26	RI-BH-5 Native	Total/NA	Solid	3546	
480-229710-27	RI-BH-6 Fill	Total/NA	Solid	3546	
480-229710-28	RI-BH-6 Native	Total/NA	Solid	3546	
480-229710-29	RI-BH-7 Fill	Total/NA	Solid	3546	

Eurofins Buffalo

QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

GC Semi VOA (Continued)

Prep Batch: 747334 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-747334/1-A	Method Blank	Total/NA	Solid	3546	
LCS 480-747334/2-A	Lab Control Sample	Total/NA	Solid	3546	
480-229710-25 MS	RI-BH-5 Fill	Total/NA	Solid	3546	
480-229710-25 MSD	RI-BH-5 Fill	Total/NA	Solid	3546	

Prep Batch: 747458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-1	RI-BH-7 Native	Total/NA	Solid	3550C	
480-229710-2	RI-BH-8 Fill	Total/NA	Solid	3550C	
480-229710-3	RI-BH-8 Native	Total/NA	Solid	3550C	
480-229710-7	RI-BH-11 Fill	Total/NA	Solid	3550C	
480-229710-8	RI-BH-11 Native	Total/NA	Solid	3550C	
480-229710-9	RI-BH-12 Fill	Total/NA	Solid	3550C	
480-229710-10	RI-BH-13 Fill	Total/NA	Solid	3550C	
480-229710-11	RI-BH-14 Fill	Total/NA	Solid	3550C	
480-229710-12	RI-BH-15 Fill	Total/NA	Solid	3550C	
480-229710-13	RI-BH-15 Native	Total/NA	Solid	3550C	
480-229710-14	RI-BH-16 Fill	Total/NA	Solid	3550C	
480-229710-15	RI-BH-17 Fill	Total/NA	Solid	3550C	
480-229710-16	RI-BH-17 Native	Total/NA	Solid	3550C	
480-229710-17	RI-BH-18 Fill	Total/NA	Solid	3550C	
480-229710-18	RI-BH-18 Native	Total/NA	Solid	3550C	
480-229710-19	RI-BH-1 Fill	Total/NA	Solid	3550C	
480-229710-20	RI-BH-1 Native	Total/NA	Solid	3550C	
480-229710-21	RI-BH-2 Fill	Total/NA	Solid	3550C	
480-229710-22	RI-BH-2 Native	Total/NA	Solid	3550C	
480-229710-23	RI-BH-3 Fill	Total/NA	Solid	3550C	
MB 480-747458/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-747458/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-229710-1 MS	RI-BH-7 Native	Total/NA	Solid	3550C	
480-229710-1 MSD	RI-BH-7 Native	Total/NA	Solid	3550C	

Analysis Batch: 747468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-24	RI-BH-4 Fill	Total/NA	Solid	8081B	747334
480-229710-25	RI-BH-5 Fill	Total/NA	Solid	8081B	747334
480-229710-26	RI-BH-5 Native	Total/NA	Solid	8081B	747334
480-229710-27	RI-BH-6 Fill	Total/NA	Solid	8081B	747334
480-229710-28	RI-BH-6 Native	Total/NA	Solid	8081B	747334
480-229710-29	RI-BH-7 Fill	Total/NA	Solid	8081B	747334
MB 480-747334/1-A	Method Blank	Total/NA	Solid	8081B	747334
LCS 480-747334/2-A	Lab Control Sample	Total/NA	Solid	8081B	747334
480-229710-25 MS	RI-BH-5 Fill	Total/NA	Solid	8081B	747334
480-229710-25 MSD	RI-BH-5 Fill	Total/NA	Solid	8081B	747334

Analysis Batch: 747470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-1	RI-BH-7 Native	Total/NA	Solid	8081B	747333
480-229710-2	RI-BH-8 Fill	Total/NA	Solid	8081B	747333
480-229710-3	RI-BH-8 Native	Total/NA	Solid	8081B	747333
480-229710-7	RI-BH-11 Fill	Total/NA	Solid	8081B	747333

Eurofins Buffalo

QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

GC Semi VOA (Continued)

Analysis Batch: 747470 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-8	RI-BH-11 Native	Total/NA	Solid	8081B	747333
480-229710-9	RI-BH-12 Fill	Total/NA	Solid	8081B	747333
480-229710-10	RI-BH-13 Fill	Total/NA	Solid	8081B	747333
480-229710-11	RI-BH-14 Fill	Total/NA	Solid	8081B	747333
480-229710-12	RI-BH-15 Fill	Total/NA	Solid	8081B	747333
480-229710-13	RI-BH-15 Native	Total/NA	Solid	8081B	747333
480-229710-14	RI-BH-16 Fill	Total/NA	Solid	8081B	747333
480-229710-15	RI-BH-17 Fill	Total/NA	Solid	8081B	747333
480-229710-16	RI-BH-17 Native	Total/NA	Solid	8081B	747333
480-229710-17	RI-BH-18 Fill	Total/NA	Solid	8081B	747333
480-229710-18	RI-BH-18 Native	Total/NA	Solid	8081B	747333
480-229710-19	RI-BH-1 Fill	Total/NA	Solid	8081B	747333
MB 480-747333/1-A	Method Blank	Total/NA	Solid	8081B	747333
LCS 480-747333/2-A	Lab Control Sample	Total/NA	Solid	8081B	747333
480-229710-1 MS	RI-BH-7 Native	Total/NA	Solid	8081B	747333
480-229710-1 MSD	RI-BH-7 Native	Total/NA	Solid	8081B	747333

Analysis Batch: 747511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-1	RI-BH-7 Native	Total/NA	Solid	8082A	747458
480-229710-2	RI-BH-8 Fill	Total/NA	Solid	8082A	747458
480-229710-3	RI-BH-8 Native	Total/NA	Solid	8082A	747458
480-229710-7	RI-BH-11 Fill	Total/NA	Solid	8082A	747458
480-229710-8	RI-BH-11 Native	Total/NA	Solid	8082A	747458
480-229710-9	RI-BH-12 Fill	Total/NA	Solid	8082A	747458
480-229710-10	RI-BH-13 Fill	Total/NA	Solid	8082A	747458
480-229710-11	RI-BH-14 Fill	Total/NA	Solid	8082A	747458
480-229710-12	RI-BH-15 Fill	Total/NA	Solid	8082A	747458
480-229710-13	RI-BH-15 Native	Total/NA	Solid	8082A	747458
480-229710-14	RI-BH-16 Fill	Total/NA	Solid	8082A	747458
480-229710-15	RI-BH-17 Fill	Total/NA	Solid	8082A	747458
480-229710-16	RI-BH-17 Native	Total/NA	Solid	8082A	747458
480-229710-17	RI-BH-18 Fill	Total/NA	Solid	8082A	747458
480-229710-18	RI-BH-18 Native	Total/NA	Solid	8082A	747458
480-229710-19	RI-BH-1 Fill	Total/NA	Solid	8082A	747458
480-229710-20	RI-BH-1 Native	Total/NA	Solid	8082A	747458
480-229710-21	RI-BH-2 Fill	Total/NA	Solid	8082A	747458
480-229710-22	RI-BH-2 Native	Total/NA	Solid	8082A	747458
480-229710-23	RI-BH-3 Fill	Total/NA	Solid	8082A	747458
MB 480-747458/1-A	Method Blank	Total/NA	Solid	8082A	747458
LCS 480-747458/2-A	Lab Control Sample	Total/NA	Solid	8082A	747458
480-229710-1 MS	RI-BH-7 Native	Total/NA	Solid	8082A	747458
480-229710-1 MSD	RI-BH-7 Native	Total/NA	Solid	8082A	747458

Prep Batch: 747543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-24	RI-BH-4 Fill	Total/NA	Solid	3550C	
480-229710-25	RI-BH-5 Fill	Total/NA	Solid	3550C	
480-229710-26	RI-BH-5 Native	Total/NA	Solid	3550C	
480-229710-27	RI-BH-6 Fill	Total/NA	Solid	3550C	
480-229710-28	RI-BH-6 Native	Total/NA	Solid	3550C	

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QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

GC Semi VOA (Continued)

Prep Batch: 747543 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-29	RI-BH-7 Fill	Total/NA	Solid	3550C	
MB 480-747543/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-747543/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 747619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-24	RI-BH-4 Fill	Total/NA	Solid	8082A	747543
480-229710-25	RI-BH-5 Fill	Total/NA	Solid	8082A	747543
480-229710-26	RI-BH-5 Native	Total/NA	Solid	8082A	747543
480-229710-27	RI-BH-6 Fill	Total/NA	Solid	8082A	747543
480-229710-28	RI-BH-6 Native	Total/NA	Solid	8082A	747543
480-229710-29	RI-BH-7 Fill	Total/NA	Solid	8082A	747543
MB 480-747543/1-A	Method Blank	Total/NA	Solid	8082A	747543
LCS 480-747543/2-A	Lab Control Sample	Total/NA	Solid	8082A	747543

Analysis Batch: 747625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-20	RI-BH-1 Native	Total/NA	Solid	8081B	747333
480-229710-21	RI-BH-2 Fill	Total/NA	Solid	8081B	747333
480-229710-22	RI-BH-2 Native	Total/NA	Solid	8081B	747333
480-229710-23	RI-BH-3 Fill	Total/NA	Solid	8081B	747333

LCMS

Prep Batch: 651279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-1	RI-BH-7 Native	Total/NA	Solid	1633 Shake	
480-229710-2	RI-BH-8 Fill	Total/NA	Solid	1633 Shake	
480-229710-3	RI-BH-8 Native	Total/NA	Solid	1633 Shake	
480-229710-7	RI-BH-11 Fill	Total/NA	Solid	1633 Shake	
480-229710-8	RI-BH-11 Native	Total/NA	Solid	1633 Shake	
480-229710-9	RI-BH-12 Fill	Total/NA	Solid	1633 Shake	
480-229710-10	RI-BH-13 Fill	Total/NA	Solid	1633 Shake	
480-229710-11	RI-BH-14 Fill	Total/NA	Solid	1633 Shake	
480-229710-12	RI-BH-15 Fill	Total/NA	Solid	1633 Shake	
480-229710-13	RI-BH-15 Native	Total/NA	Solid	1633 Shake	
480-229710-14	RI-BH-16 Fill	Total/NA	Solid	1633 Shake	
480-229710-15	RI-BH-17 Fill	Total/NA	Solid	1633 Shake	
480-229710-16	RI-BH-17 Native	Total/NA	Solid	1633 Shake	
480-229710-17	RI-BH-18 Fill	Total/NA	Solid	1633 Shake	
480-229710-18	RI-BH-18 Native	Total/NA	Solid	1633 Shake	
480-229710-19	RI-BH-1 Fill	Total/NA	Solid	1633 Shake	
480-229710-20	RI-BH-1 Native	Total/NA	Solid	1633 Shake	
480-229710-21	RI-BH-2 Fill	Total/NA	Solid	1633 Shake	
MB 410-651279/1-A	Method Blank	Total/NA	Solid	1633 Shake	
LCS 410-651279/2-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
LCSD 410-651279/3-A	Lab Control Sample Dup	Total/NA	Solid	1633 Shake	
LLCS 410-651279/4-A	Lab Control Sample	Total/NA	Solid	1633 Shake	

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QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

LCMS

Prep Batch: 651429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-22	RI-BH-2 Native	Total/NA	Solid	1633 Shake	
480-229710-24	RI-BH-4 Fill	Total/NA	Solid	1633 Shake	
480-229710-26	RI-BH-5 Native	Total/NA	Solid	1633 Shake	
MB 410-651429/1-A	Method Blank	Total/NA	Solid	1633 Shake	
LCS 410-651429/2-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
LLCS 410-651429/3-A	Lab Control Sample	Total/NA	Solid	1633 Shake	

Analysis Batch: 651610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-1	RI-BH-7 Native	Total/NA	Solid	1633	651279
480-229710-2	RI-BH-8 Fill	Total/NA	Solid	1633	651279
480-229710-3	RI-BH-8 Native	Total/NA	Solid	1633	651279
480-229710-7	RI-BH-11 Fill	Total/NA	Solid	1633	651279
480-229710-8	RI-BH-11 Native	Total/NA	Solid	1633	651279
480-229710-9	RI-BH-12 Fill	Total/NA	Solid	1633	651279
480-229710-10	RI-BH-13 Fill	Total/NA	Solid	1633	651279
480-229710-11	RI-BH-14 Fill	Total/NA	Solid	1633	651279
480-229710-12	RI-BH-15 Fill	Total/NA	Solid	1633	651279
480-229710-13	RI-BH-15 Native	Total/NA	Solid	1633	651279
480-229710-14	RI-BH-16 Fill	Total/NA	Solid	1633	651279
480-229710-15	RI-BH-17 Fill	Total/NA	Solid	1633	651279
480-229710-16	RI-BH-17 Native	Total/NA	Solid	1633	651279
480-229710-17	RI-BH-18 Fill	Total/NA	Solid	1633	651279
480-229710-18	RI-BH-18 Native	Total/NA	Solid	1633	651279
480-229710-19	RI-BH-1 Fill	Total/NA	Solid	1633	651279
480-229710-20	RI-BH-1 Native	Total/NA	Solid	1633	651279
480-229710-21	RI-BH-2 Fill	Total/NA	Solid	1633	651279
MB 410-651279/1-A	Method Blank	Total/NA	Solid	1633	651279
LCS 410-651279/2-A	Lab Control Sample	Total/NA	Solid	1633	651279
LCSD 410-651279/3-A	Lab Control Sample Dup	Total/NA	Solid	1633	651279
LLCS 410-651279/4-A	Lab Control Sample	Total/NA	Solid	1633	651279

Analysis Batch: 652026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-22	RI-BH-2 Native	Total/NA	Solid	1633	651429
480-229710-24	RI-BH-4 Fill	Total/NA	Solid	1633	651429
480-229710-26	RI-BH-5 Native	Total/NA	Solid	1633	651429
MB 410-651429/1-A	Method Blank	Total/NA	Solid	1633	651429
LCS 410-651429/2-A	Lab Control Sample	Total/NA	Solid	1633	651429
LLCS 410-651429/3-A	Lab Control Sample	Total/NA	Solid	1633	651429

Prep Batch: 652946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-22 - RE	RI-BH-2 Native	Total/NA	Solid	1633 Shake	
480-229710-23	RI-BH-3 Fill	Total/NA	Solid	1633 Shake	
480-229710-24 - RE	RI-BH-4 Fill	Total/NA	Solid	1633 Shake	
480-229710-25	RI-BH-5 Fill	Total/NA	Solid	1633 Shake	
480-229710-26 - RE	RI-BH-5 Native	Total/NA	Solid	1633 Shake	
480-229710-27	RI-BH-6 Fill	Total/NA	Solid	1633 Shake	
480-229710-28	RI-BH-6 Native	Total/NA	Solid	1633 Shake	
480-229710-29	RI-BH-7 Fill	Total/NA	Solid	1633 Shake	

Eurofins Buffalo

QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

LCMS (Continued)

Prep Batch: 652946 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-652946/1-A	Method Blank	Total/NA	Solid	1633 Shake	
LCS 410-652946/2-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
LLCS 410-652946/3-A	Lab Control Sample	Total/NA	Solid	1633 Shake	

Analysis Batch: 653393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-22 - RE	RI-BH-2 Native	Total/NA	Solid	1633	652946
480-229710-23	RI-BH-3 Fill	Total/NA	Solid	1633	652946
480-229710-24 - RE	RI-BH-4 Fill	Total/NA	Solid	1633	652946
480-229710-25	RI-BH-5 Fill	Total/NA	Solid	1633	652946
480-229710-26 - RE	RI-BH-5 Native	Total/NA	Solid	1633	652946
480-229710-27	RI-BH-6 Fill	Total/NA	Solid	1633	652946
480-229710-28	RI-BH-6 Native	Total/NA	Solid	1633	652946
480-229710-29	RI-BH-7 Fill	Total/NA	Solid	1633	652946
MB 410-652946/1-A	Method Blank	Total/NA	Solid	1633	652946
LCS 410-652946/2-A	Lab Control Sample	Total/NA	Solid	1633	652946
LLCS 410-652946/3-A	Lab Control Sample	Total/NA	Solid	1633	652946

Metals

Prep Batch: 747264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-1	RI-BH-7 Native	Total/NA	Solid	3050B	
MB 480-747264/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-747264/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 747266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-2	RI-BH-8 Fill	Total/NA	Solid	3050B	
480-229710-3	RI-BH-8 Native	Total/NA	Solid	3050B	
480-229710-7	RI-BH-11 Fill	Total/NA	Solid	3050B	
480-229710-8	RI-BH-11 Native	Total/NA	Solid	3050B	
480-229710-9	RI-BH-12 Fill	Total/NA	Solid	3050B	
480-229710-10	RI-BH-13 Fill	Total/NA	Solid	3050B	
480-229710-11	RI-BH-14 Fill	Total/NA	Solid	3050B	
480-229710-12	RI-BH-15 Fill	Total/NA	Solid	3050B	
480-229710-13	RI-BH-15 Native	Total/NA	Solid	3050B	
480-229710-14	RI-BH-16 Fill	Total/NA	Solid	3050B	
480-229710-15	RI-BH-17 Fill	Total/NA	Solid	3050B	
480-229710-16	RI-BH-17 Native	Total/NA	Solid	3050B	
480-229710-17	RI-BH-18 Fill	Total/NA	Solid	3050B	
MB 480-747266/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-747266/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 747297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-18	RI-BH-18 Native	Total/NA	Solid	3050B	
480-229710-19	RI-BH-1 Fill	Total/NA	Solid	3050B	
480-229710-20	RI-BH-1 Native	Total/NA	Solid	3050B	
480-229710-21	RI-BH-2 Fill	Total/NA	Solid	3050B	
480-229710-22	RI-BH-2 Native	Total/NA	Solid	3050B	

Eurofins Buffalo

QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Metals (Continued)

Prep Batch: 747297 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-23	RI-BH-3 Fill	Total/NA	Solid	3050B	
480-229710-24	RI-BH-4 Fill	Total/NA	Solid	3050B	
480-229710-25	RI-BH-5 Fill	Total/NA	Solid	3050B	
480-229710-26	RI-BH-5 Native	Total/NA	Solid	3050B	
480-229710-27	RI-BH-6 Fill	Total/NA	Solid	3050B	
480-229710-28	RI-BH-6 Native	Total/NA	Solid	3050B	
480-229710-29	RI-BH-7 Fill	Total/NA	Solid	3050B	
MB 480-747297/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-747297/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-229710-28 MS	RI-BH-6 Native	Total/NA	Solid	3050B	
480-229710-28 MSD	RI-BH-6 Native	Total/NA	Solid	3050B	

Analysis Batch: 747391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-1	RI-BH-7 Native	Total/NA	Solid	6010D	747264
MB 480-747264/1-A	Method Blank	Total/NA	Solid	6010D	747264
LCSSRM 480-747264/2-A	Lab Control Sample	Total/NA	Solid	6010D	747264

Analysis Batch: 747461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-2	RI-BH-8 Fill	Total/NA	Solid	6010D	747266
480-229710-3	RI-BH-8 Native	Total/NA	Solid	6010D	747266
480-229710-7	RI-BH-11 Fill	Total/NA	Solid	6010D	747266
480-229710-8	RI-BH-11 Native	Total/NA	Solid	6010D	747266
480-229710-9	RI-BH-12 Fill	Total/NA	Solid	6010D	747266
480-229710-10	RI-BH-13 Fill	Total/NA	Solid	6010D	747266
480-229710-11	RI-BH-14 Fill	Total/NA	Solid	6010D	747266
480-229710-12	RI-BH-15 Fill	Total/NA	Solid	6010D	747266
480-229710-13	RI-BH-15 Native	Total/NA	Solid	6010D	747266
480-229710-14	RI-BH-16 Fill	Total/NA	Solid	6010D	747266
480-229710-15	RI-BH-17 Fill	Total/NA	Solid	6010D	747266
480-229710-16	RI-BH-17 Native	Total/NA	Solid	6010D	747266
480-229710-17	RI-BH-18 Fill	Total/NA	Solid	6010D	747266
MB 480-747266/1-A	Method Blank	Total/NA	Solid	6010D	747266
LCSSRM 480-747266/2-A	Lab Control Sample	Total/NA	Solid	6010D	747266

Prep Batch: 747515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-11	RI-BH-14 Fill	Total/NA	Solid	7471B	
480-229710-12	RI-BH-15 Fill	Total/NA	Solid	7471B	
480-229710-13	RI-BH-15 Native	Total/NA	Solid	7471B	
480-229710-14	RI-BH-16 Fill	Total/NA	Solid	7471B	
480-229710-15	RI-BH-17 Fill	Total/NA	Solid	7471B	
480-229710-16	RI-BH-17 Native	Total/NA	Solid	7471B	
480-229710-17	RI-BH-18 Fill	Total/NA	Solid	7471B	
480-229710-18	RI-BH-18 Native	Total/NA	Solid	7471B	
480-229710-19	RI-BH-1 Fill	Total/NA	Solid	7471B	
480-229710-20	RI-BH-1 Native	Total/NA	Solid	7471B	
480-229710-21	RI-BH-2 Fill	Total/NA	Solid	7471B	
480-229710-22	RI-BH-2 Native	Total/NA	Solid	7471B	
MB 480-747515/1-A	Method Blank	Total/NA	Solid	7471B	

Eurofins Buffalo

QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Metals (Continued)

Prep Batch: 747515 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSSRM 480-747515/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 747527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-23	RI-BH-3 Fill	Total/NA	Solid	7471B	
480-229710-24	RI-BH-4 Fill	Total/NA	Solid	7471B	
480-229710-25	RI-BH-5 Fill	Total/NA	Solid	7471B	
480-229710-26	RI-BH-5 Native	Total/NA	Solid	7471B	
480-229710-27	RI-BH-6 Fill	Total/NA	Solid	7471B	
480-229710-28	RI-BH-6 Native	Total/NA	Solid	7471B	
480-229710-29	RI-BH-7 Fill	Total/NA	Solid	7471B	
MB 480-747527/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-747527/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 747528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-1	RI-BH-7 Native	Total/NA	Solid	7471B	
480-229710-2	RI-BH-8 Fill	Total/NA	Solid	7471B	
480-229710-3	RI-BH-8 Native	Total/NA	Solid	7471B	
480-229710-7	RI-BH-11 Fill	Total/NA	Solid	7471B	
480-229710-8	RI-BH-11 Native	Total/NA	Solid	7471B	
480-229710-9	RI-BH-12 Fill	Total/NA	Solid	7471B	
480-229710-10	RI-BH-13 Fill	Total/NA	Solid	7471B	
MB 480-747528/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-747528/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 747540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-3	RI-BH-8 Native	Total/NA	Solid	6010D	747266
480-229710-7	RI-BH-11 Fill	Total/NA	Solid	6010D	747266
480-229710-8	RI-BH-11 Native	Total/NA	Solid	6010D	747266
480-229710-9	RI-BH-12 Fill	Total/NA	Solid	6010D	747266
480-229710-10	RI-BH-13 Fill	Total/NA	Solid	6010D	747266
480-229710-11	RI-BH-14 Fill	Total/NA	Solid	6010D	747266
480-229710-12	RI-BH-15 Fill	Total/NA	Solid	6010D	747266
480-229710-13	RI-BH-15 Native	Total/NA	Solid	6010D	747266
480-229710-14	RI-BH-16 Fill	Total/NA	Solid	6010D	747266
480-229710-15	RI-BH-17 Fill	Total/NA	Solid	6010D	747266
480-229710-16	RI-BH-17 Native	Total/NA	Solid	6010D	747266
480-229710-17	RI-BH-18 Fill	Total/NA	Solid	6010D	747266

Analysis Batch: 747573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-1	RI-BH-7 Native	Total/NA	Solid	7471B	747528
480-229710-2	RI-BH-8 Fill	Total/NA	Solid	7471B	747528
480-229710-3	RI-BH-8 Native	Total/NA	Solid	7471B	747528
480-229710-7	RI-BH-11 Fill	Total/NA	Solid	7471B	747528
480-229710-8	RI-BH-11 Native	Total/NA	Solid	7471B	747528
480-229710-9	RI-BH-12 Fill	Total/NA	Solid	7471B	747528
480-229710-10	RI-BH-13 Fill	Total/NA	Solid	7471B	747528
480-229710-11	RI-BH-14 Fill	Total/NA	Solid	7471B	747515

Eurofins Buffalo

QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Metals (Continued)

Analysis Batch: 747573 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-12	RI-BH-15 Fill	Total/NA	Solid	7471B	747515
480-229710-13	RI-BH-15 Native	Total/NA	Solid	7471B	747515
480-229710-14	RI-BH-16 Fill	Total/NA	Solid	7471B	747515
480-229710-15	RI-BH-17 Fill	Total/NA	Solid	7471B	747515
480-229710-16	RI-BH-17 Native	Total/NA	Solid	7471B	747515
480-229710-17	RI-BH-18 Fill	Total/NA	Solid	7471B	747515
480-229710-18	RI-BH-18 Native	Total/NA	Solid	7471B	747515
480-229710-19	RI-BH-1 Fill	Total/NA	Solid	7471B	747515
480-229710-20	RI-BH-1 Native	Total/NA	Solid	7471B	747515
480-229710-21	RI-BH-2 Fill	Total/NA	Solid	7471B	747515
480-229710-22	RI-BH-2 Native	Total/NA	Solid	7471B	747515
480-229710-23	RI-BH-3 Fill	Total/NA	Solid	7471B	747527
480-229710-24	RI-BH-4 Fill	Total/NA	Solid	7471B	747527
480-229710-25	RI-BH-5 Fill	Total/NA	Solid	7471B	747527
480-229710-26	RI-BH-5 Native	Total/NA	Solid	7471B	747527
480-229710-27	RI-BH-6 Fill	Total/NA	Solid	7471B	747527
480-229710-28	RI-BH-6 Native	Total/NA	Solid	7471B	747527
480-229710-29	RI-BH-7 Fill	Total/NA	Solid	7471B	747527
MB 480-747515/1-A	Method Blank	Total/NA	Solid	7471B	747515
MB 480-747527/1-A	Method Blank	Total/NA	Solid	7471B	747527
MB 480-747528/1-A	Method Blank	Total/NA	Solid	7471B	747528
LCSSRM 480-747515/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	747515
LCSSRM 480-747527/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	747527
LCSSRM 480-747528/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	747528

Analysis Batch: 747639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-18	RI-BH-18 Native	Total/NA	Solid	6010D	747297
480-229710-19	RI-BH-1 Fill	Total/NA	Solid	6010D	747297
480-229710-20	RI-BH-1 Native	Total/NA	Solid	6010D	747297
480-229710-21	RI-BH-2 Fill	Total/NA	Solid	6010D	747297
480-229710-22	RI-BH-2 Native	Total/NA	Solid	6010D	747297
480-229710-23	RI-BH-3 Fill	Total/NA	Solid	6010D	747297
480-229710-24	RI-BH-4 Fill	Total/NA	Solid	6010D	747297
480-229710-25	RI-BH-5 Fill	Total/NA	Solid	6010D	747297
480-229710-26	RI-BH-5 Native	Total/NA	Solid	6010D	747297
480-229710-27	RI-BH-6 Fill	Total/NA	Solid	6010D	747297
480-229710-28	RI-BH-6 Native	Total/NA	Solid	6010D	747297
480-229710-29	RI-BH-7 Fill	Total/NA	Solid	6010D	747297
MB 480-747297/1-A	Method Blank	Total/NA	Solid	6010D	747297
LCSSRM 480-747297/2-A	Lab Control Sample	Total/NA	Solid	6010D	747297
480-229710-28 MS	RI-BH-6 Native	Total/NA	Solid	6010D	747297
480-229710-28 MSD	RI-BH-6 Native	Total/NA	Solid	6010D	747297

Analysis Batch: 747956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-18	RI-BH-18 Native	Total/NA	Solid	6010D	747297
480-229710-19	RI-BH-1 Fill	Total/NA	Solid	6010D	747297
480-229710-20	RI-BH-1 Native	Total/NA	Solid	6010D	747297
480-229710-21	RI-BH-2 Fill	Total/NA	Solid	6010D	747297
480-229710-22	RI-BH-2 Native	Total/NA	Solid	6010D	747297

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QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Metals (Continued)

Analysis Batch: 747956 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-23	RI-BH-3 Fill	Total/NA	Solid	6010D	747297
480-229710-24	RI-BH-4 Fill	Total/NA	Solid	6010D	747297
480-229710-25	RI-BH-5 Fill	Total/NA	Solid	6010D	747297
480-229710-26	RI-BH-5 Native	Total/NA	Solid	6010D	747297
480-229710-27	RI-BH-6 Fill	Total/NA	Solid	6010D	747297
480-229710-28	RI-BH-6 Native	Total/NA	Solid	6010D	747297
480-229710-29	RI-BH-7 Fill	Total/NA	Solid	6010D	747297
MB 480-747297/1-A	Method Blank	Total/NA	Solid	6010D	747297
LCSSRM 480-747297/2-A	Lab Control Sample	Total/NA	Solid	6010D	747297
480-229710-28 MS	RI-BH-6 Native	Total/NA	Solid	6010D	747297
480-229710-28 MSD	RI-BH-6 Native	Total/NA	Solid	6010D	747297

Analysis Batch: 748004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-15	RI-BH-17 Fill	Total/NA	Solid	6010D	747266

General Chemistry

Analysis Batch: 747287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-1	RI-BH-7 Native	Total/NA	Solid	Moisture	
480-229710-2	RI-BH-8 Fill	Total/NA	Solid	Moisture	
480-229710-3	RI-BH-8 Native	Total/NA	Solid	Moisture	
480-229710-7	RI-BH-11 Fill	Total/NA	Solid	Moisture	
480-229710-8	RI-BH-11 Native	Total/NA	Solid	Moisture	
480-229710-9	RI-BH-12 Fill	Total/NA	Solid	Moisture	
480-229710-10	RI-BH-13 Fill	Total/NA	Solid	Moisture	
480-229710-11	RI-BH-14 Fill	Total/NA	Solid	Moisture	
480-229710-12	RI-BH-15 Fill	Total/NA	Solid	Moisture	
480-229710-13	RI-BH-15 Native	Total/NA	Solid	Moisture	
480-229710-14	RI-BH-16 Fill	Total/NA	Solid	Moisture	
480-229710-15	RI-BH-17 Fill	Total/NA	Solid	Moisture	
480-229710-16	RI-BH-17 Native	Total/NA	Solid	Moisture	
480-229710-17	RI-BH-18 Fill	Total/NA	Solid	Moisture	
480-229710-18	RI-BH-18 Native	Total/NA	Solid	Moisture	
480-229710-19	RI-BH-1 Fill	Total/NA	Solid	Moisture	
480-229710-20	RI-BH-1 Native	Total/NA	Solid	Moisture	
480-229710-21	RI-BH-2 Fill	Total/NA	Solid	Moisture	
480-229710-22	RI-BH-2 Native	Total/NA	Solid	Moisture	
480-229710-23	RI-BH-3 Fill	Total/NA	Solid	Moisture	
480-229710-24	RI-BH-4 Fill	Total/NA	Solid	Moisture	
480-229710-25	RI-BH-5 Fill	Total/NA	Solid	Moisture	
480-229710-26	RI-BH-5 Native	Total/NA	Solid	Moisture	
480-229710-27	RI-BH-6 Fill	Total/NA	Solid	Moisture	
480-229710-28	RI-BH-6 Native	Total/NA	Solid	Moisture	
480-229710-29	RI-BH-7 Fill	Total/NA	Solid	Moisture	

Prep Batch: 747417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-1	RI-BH-7 Native	Total/NA	Solid	9012B	
480-229710-2	RI-BH-8 Fill	Total/NA	Solid	9012B	

Eurofins Buffalo

QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

General Chemistry (Continued)

Prep Batch: 747417 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-3	RI-BH-8 Native	Total/NA	Solid	9012B	
480-229710-7	RI-BH-11 Fill	Total/NA	Solid	9012B	
480-229710-8	RI-BH-11 Native	Total/NA	Solid	9012B	
480-229710-9	RI-BH-12 Fill	Total/NA	Solid	9012B	
480-229710-10	RI-BH-13 Fill	Total/NA	Solid	9012B	
MB 480-747417/1-A	Method Blank	Total/NA	Solid	9012B	
LCS 480-747417/4-A	Lab Control Sample	Total/NA	Solid	9012B	
LCS 480-747417/5-A	Lab Control Sample	Total/NA	Solid	9012B	
LCSSRM 480-747417/3-A	Lab Control Sample	Total/NA	Solid	9012B	

Analysis Batch: 747507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-1	RI-BH-7 Native	Total/NA	Solid	9012B	747417
480-229710-2	RI-BH-8 Fill	Total/NA	Solid	9012B	747417
480-229710-3	RI-BH-8 Native	Total/NA	Solid	9012B	747417
480-229710-7	RI-BH-11 Fill	Total/NA	Solid	9012B	747417
480-229710-8	RI-BH-11 Native	Total/NA	Solid	9012B	747417
480-229710-9	RI-BH-12 Fill	Total/NA	Solid	9012B	747417
480-229710-10	RI-BH-13 Fill	Total/NA	Solid	9012B	747417
MB 480-747417/1-A	Method Blank	Total/NA	Solid	9012B	747417
LCS 480-747417/4-A	Lab Control Sample	Total/NA	Solid	9012B	747417
LCS 480-747417/5-A	Lab Control Sample	Total/NA	Solid	9012B	747417
LCSSRM 480-747417/3-A	Lab Control Sample	Total/NA	Solid	9012B	747417

Prep Batch: 747600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-11	RI-BH-14 Fill	Total/NA	Solid	9012B	
480-229710-12	RI-BH-15 Fill	Total/NA	Solid	9012B	
480-229710-13	RI-BH-15 Native	Total/NA	Solid	9012B	
480-229710-14	RI-BH-16 Fill	Total/NA	Solid	9012B	
480-229710-15	RI-BH-17 Fill	Total/NA	Solid	9012B	
480-229710-16	RI-BH-17 Native	Total/NA	Solid	9012B	
480-229710-17	RI-BH-18 Fill	Total/NA	Solid	9012B	
480-229710-18	RI-BH-18 Native	Total/NA	Solid	9012B	
480-229710-19	RI-BH-1 Fill	Total/NA	Solid	9012B	
480-229710-20	RI-BH-1 Native	Total/NA	Solid	9012B	
480-229710-21	RI-BH-2 Fill	Total/NA	Solid	9012B	
480-229710-22	RI-BH-2 Native	Total/NA	Solid	9012B	
480-229710-23	RI-BH-3 Fill	Total/NA	Solid	9012B	
480-229710-24	RI-BH-4 Fill	Total/NA	Solid	9012B	
MB 480-747600/1-A	Method Blank	Total/NA	Solid	9012B	
LCS 480-747600/3-A	Lab Control Sample	Total/NA	Solid	9012B	
LCS 480-747600/4-A	Lab Control Sample	Total/NA	Solid	9012B	
LCSSRM 480-747600/2-A	Lab Control Sample	Total/NA	Solid	9012B	
480-229710-11 MS	RI-BH-14 Fill	Total/NA	Solid	9012B	
480-229710-24 MS	RI-BH-4 Fill	Total/NA	Solid	9012B	
480-229710-11 DU	RI-BH-14 Fill	Total/NA	Solid	9012B	

Prep Batch: 747601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-25	RI-BH-5 Fill	Total/NA	Solid	9012B	

Eurofins Buffalo

QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

General Chemistry (Continued)

Prep Batch: 747601 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-26	RI-BH-5 Native	Total/NA	Solid	9012B	
480-229710-27	RI-BH-6 Fill	Total/NA	Solid	9012B	
480-229710-28	RI-BH-6 Native	Total/NA	Solid	9012B	
480-229710-29	RI-BH-7 Fill	Total/NA	Solid	9012B	
MB 480-747601/1-A	Method Blank	Total/NA	Solid	9012B	
LCSSRM 480-747601/2-A	Lab Control Sample	Total/NA	Solid	9012B	
480-229710-25 MS	RI-BH-5 Fill	Total/NA	Solid	9012B	
480-229710-25 DU	RI-BH-5 Fill	Total/NA	Solid	9012B	

Analysis Batch: 747605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229710-11	RI-BH-14 Fill	Total/NA	Solid	9012B	747600
480-229710-12	RI-BH-15 Fill	Total/NA	Solid	9012B	747600
480-229710-13	RI-BH-15 Native	Total/NA	Solid	9012B	747600
480-229710-14	RI-BH-16 Fill	Total/NA	Solid	9012B	747600
480-229710-15	RI-BH-17 Fill	Total/NA	Solid	9012B	747600
480-229710-16	RI-BH-17 Native	Total/NA	Solid	9012B	747600
480-229710-17	RI-BH-18 Fill	Total/NA	Solid	9012B	747600
480-229710-18	RI-BH-18 Native	Total/NA	Solid	9012B	747600
480-229710-19	RI-BH-1 Fill	Total/NA	Solid	9012B	747600
480-229710-20	RI-BH-1 Native	Total/NA	Solid	9012B	747600
480-229710-21	RI-BH-2 Fill	Total/NA	Solid	9012B	747600
480-229710-22	RI-BH-2 Native	Total/NA	Solid	9012B	747600
480-229710-23	RI-BH-3 Fill	Total/NA	Solid	9012B	747600
480-229710-24	RI-BH-4 Fill	Total/NA	Solid	9012B	747600
480-229710-25	RI-BH-5 Fill	Total/NA	Solid	9012B	747601
480-229710-26	RI-BH-5 Native	Total/NA	Solid	9012B	747601
480-229710-27	RI-BH-6 Fill	Total/NA	Solid	9012B	747601
480-229710-28	RI-BH-6 Native	Total/NA	Solid	9012B	747601
480-229710-29	RI-BH-7 Fill	Total/NA	Solid	9012B	747601
MB 480-747600/1-A	Method Blank	Total/NA	Solid	9012B	747600
MB 480-747601/1-A	Method Blank	Total/NA	Solid	9012B	747601
LCS 480-747600/3-A	Lab Control Sample	Total/NA	Solid	9012B	747600
LCS 480-747600/4-A	Lab Control Sample	Total/NA	Solid	9012B	747600
LCSSRM 480-747600/2-A	Lab Control Sample	Total/NA	Solid	9012B	747600
LCSSRM 480-747601/2-A	Lab Control Sample	Total/NA	Solid	9012B	747601
480-229710-11 MS	RI-BH-14 Fill	Total/NA	Solid	9012B	747600
480-229710-24 MS	RI-BH-4 Fill	Total/NA	Solid	9012B	747600
480-229710-25 MS	RI-BH-5 Fill	Total/NA	Solid	9012B	747601
480-229710-11 DU	RI-BH-14 Fill	Total/NA	Solid	9012B	747600
480-229710-25 DU	RI-BH-5 Fill	Total/NA	Solid	9012B	747601

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-7 Native

Lab Sample ID: 480-229710-1

Date Collected: 05/27/25 10:40

Matrix: Solid

Date Received: 05/27/25 17:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	747287	VXF	EET BUF	05/28/25 14:42

Client Sample ID: RI-BH-7 Native

Lab Sample ID: 480-229710-1

Date Collected: 05/27/25 10:40

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 92.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			747319	CDC	EET BUF	05/28/25 18:17
Total/NA	Analysis	8260C		1	747320	CDC	EET BUF	05/29/25 00:51
Total/NA	Prep	3546			747406	LSC	EET BUF	05/29/25 13:50
Total/NA	Analysis	8270D		1	747476	JMM	EET BUF	05/30/25 13:39
Total/NA	Prep	3546			747333	SMP	EET BUF	05/29/25 06:48
Total/NA	Analysis	8081B		1	747470	JLS	EET BUF	05/30/25 10:49
Total/NA	Prep	3550C			747458	SMP	EET BUF	05/30/25 06:41
Total/NA	Analysis	8082A		1	747511	C1P	EET BUF	05/30/25 15:07
Total/NA	Prep	1633 Shake			651279	M7AT	ELLE	06/01/25 11:59
Total/NA	Analysis	1633		1	651610	JU9U	ELLE	06/02/25 12:04
Total/NA	Prep	3050B			747264	EMO	EET BUF	05/28/25 15:39
Total/NA	Analysis	6010D		1	747391	BMB	EET BUF	05/29/25 12:53
Total/NA	Prep	7471B			747528	ESB	EET BUF	05/30/25 13:38
Total/NA	Analysis	7471B		1	747573	ESB	EET BUF	05/30/25 16:37
Total/NA	Prep	9012B			747417	AM	EET BUF	05/29/25 12:55
Total/NA	Analysis	9012B		1	747507	AM	EET BUF	05/29/25 20:23

Client Sample ID: RI-BH-8 Fill

Lab Sample ID: 480-229710-2

Date Collected: 05/27/25 10:50

Matrix: Solid

Date Received: 05/27/25 17:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	747287	VXF	EET BUF	05/28/25 14:42

Client Sample ID: RI-BH-8 Fill

Lab Sample ID: 480-229710-2

Date Collected: 05/27/25 10:50

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 75.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			747319	CDC	EET BUF	05/28/25 18:17
Total/NA	Analysis	8260C		1	747320	CDC	EET BUF	05/29/25 01:15
Total/NA	Prep	3546			747406	LSC	EET BUF	05/29/25 13:50
Total/NA	Analysis	8270D		1	747476	JMM	EET BUF	05/30/25 14:03
Total/NA	Prep	3546	DL		747406	LSC	EET BUF	05/29/25 13:50
Total/NA	Analysis	8270D	DL	5	747628	JMM	EET BUF	06/02/25 17:43
Total/NA	Prep	3546			747333	SMP	EET BUF	05/29/25 06:48
Total/NA	Analysis	8081B		1	747470	JLS	EET BUF	05/30/25 11:08

Eurofins Buffalo

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-8 Fill

Lab Sample ID: 480-229710-2

Date Collected: 05/27/25 10:50

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 75.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			747458	SMP	EET BUF	05/30/25 06:41
Total/NA	Analysis	8082A		1	747511	C1P	EET BUF	05/30/25 15:25
Total/NA	Prep	1633 Shake			651279	M7AT	ELLE	06/01/25 11:59
Total/NA	Analysis	1633		1	651610	JU9U	ELLE	06/02/25 12:18
Total/NA	Prep	3050B			747266	EMO	EET BUF	05/28/25 15:39
Total/NA	Analysis	6010D		5	747461	BMB	EET BUF	05/29/25 19:18
Total/NA	Prep	7471B			747528	ESB	EET BUF	05/30/25 13:38
Total/NA	Analysis	7471B		1	747573	ESB	EET BUF	05/30/25 16:38
Total/NA	Prep	9012B			747417	AM	EET BUF	05/29/25 12:55
Total/NA	Analysis	9012B		1	747507	AM	EET BUF	05/29/25 20:24

Client Sample ID: RI-BH-8 Native

Lab Sample ID: 480-229710-3

Date Collected: 05/27/25 10:55

Matrix: Solid

Date Received: 05/27/25 17:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	747287	VXF	EET BUF	05/28/25 14:42

Client Sample ID: RI-BH-8 Native

Lab Sample ID: 480-229710-3

Date Collected: 05/27/25 10:55

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			747319	CDC	EET BUF	05/28/25 18:17
Total/NA	Analysis	8260C		1	747320	CDC	EET BUF	05/29/25 01:38
Total/NA	Prep	3546			747406	LSC	EET BUF	05/29/25 13:50
Total/NA	Analysis	8270D		1	747476	JMM	EET BUF	05/30/25 13:14
Total/NA	Prep	3546			747333	SMP	EET BUF	05/29/25 06:48
Total/NA	Analysis	8081B		1	747470	JLS	EET BUF	05/30/25 11:28
Total/NA	Prep	3550C			747458	SMP	EET BUF	05/30/25 06:41
Total/NA	Analysis	8082A		1	747511	C1P	EET BUF	05/30/25 15:44
Total/NA	Prep	1633 Shake			651279	M7AT	ELLE	06/01/25 11:59
Total/NA	Analysis	1633		1	651610	JU9U	ELLE	06/02/25 12:32
Total/NA	Prep	3050B			747266	EMO	EET BUF	05/28/25 15:39
Total/NA	Analysis	6010D		1	747461	BMB	EET BUF	05/29/25 19:20
Total/NA	Prep	3050B			747266	EMO	EET BUF	05/28/25 15:39
Total/NA	Analysis	6010D		1	747540	BMB	EET BUF	05/30/25 11:45
Total/NA	Prep	7471B			747528	ESB	EET BUF	05/30/25 13:38
Total/NA	Analysis	7471B		1	747573	ESB	EET BUF	05/30/25 16:39
Total/NA	Prep	9012B			747417	AM	EET BUF	05/29/25 12:55
Total/NA	Analysis	9012B		1	747507	AM	EET BUF	05/29/25 20:25

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-11 Fill

Lab Sample ID: 480-229710-7

Date Collected: 05/27/25 11:25

Matrix: Solid

Date Received: 05/27/25 17:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	747287	VXF	EET BUF	05/28/25 14:42

Client Sample ID: RI-BH-11 Fill

Lab Sample ID: 480-229710-7

Date Collected: 05/27/25 11:25

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 91.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			747319	CDC	EET BUF	05/28/25 18:17
Total/NA	Analysis	8260C		1	747320	CDC	EET BUF	05/29/25 02:02
Total/NA	Prep	3546			747406	LSC	EET BUF	05/29/25 13:50
Total/NA	Analysis	8270D		1	747476	JMM	EET BUF	05/30/25 14:28
Total/NA	Prep	3546			747333	SMP	EET BUF	05/29/25 06:48
Total/NA	Analysis	8081B		1	747470	JLS	EET BUF	05/30/25 11:47
Total/NA	Prep	3550C			747458	SMP	EET BUF	05/30/25 06:41
Total/NA	Analysis	8082A		1	747511	C1P	EET BUF	05/30/25 16:02
Total/NA	Prep	1633 Shake			651279	M7AT	ELLE	06/01/25 11:59
Total/NA	Analysis	1633		1	651610	JU9U	ELLE	06/02/25 12:45
Total/NA	Prep	3050B			747266	EMO	EET BUF	05/28/25 15:39
Total/NA	Analysis	6010D		1	747461	BMB	EET BUF	05/29/25 19:22
Total/NA	Prep	3050B			747266	EMO	EET BUF	05/28/25 15:39
Total/NA	Analysis	6010D		1	747540	BMB	EET BUF	05/30/25 11:47
Total/NA	Prep	7471B			747528	ESB	EET BUF	05/30/25 13:38
Total/NA	Analysis	7471B		1	747573	ESB	EET BUF	05/30/25 16:41
Total/NA	Prep	9012B			747417	AM	EET BUF	05/29/25 12:55
Total/NA	Analysis	9012B		1	747507	AM	EET BUF	05/29/25 20:28

Client Sample ID: RI-BH-11 Native

Lab Sample ID: 480-229710-8

Date Collected: 05/27/25 11:30

Matrix: Solid

Date Received: 05/27/25 17:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	747287	VXF	EET BUF	05/28/25 14:42

Client Sample ID: RI-BH-11 Native

Lab Sample ID: 480-229710-8

Date Collected: 05/27/25 11:30

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 78.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			747319	CDC	EET BUF	05/28/25 18:17
Total/NA	Analysis	8260C		1	747320	CDC	EET BUF	05/29/25 02:26
Total/NA	Prep	3546			747406	LSC	EET BUF	05/29/25 13:50
Total/NA	Analysis	8270D		1	747476	JMM	EET BUF	05/30/25 14:53
Total/NA	Prep	3546			747333	SMP	EET BUF	05/29/25 06:48
Total/NA	Analysis	8081B		1	747470	JLS	EET BUF	05/30/25 12:07

Eurofins Buffalo

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-11 Native

Lab Sample ID: 480-229710-8

Date Collected: 05/27/25 11:30

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 78.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			747458	SMP	EET BUF	05/30/25 06:41
Total/NA	Analysis	8082A		1	747511	C1P	EET BUF	05/30/25 16:21
Total/NA	Prep	1633 Shake			651279	M7AT	ELLE	06/01/25 11:59
Total/NA	Analysis	1633		1	651610	JU9U	ELLE	06/02/25 12:59
Total/NA	Prep	3050B			747266	EMO	EET BUF	05/28/25 15:39
Total/NA	Analysis	6010D		1	747461	BMB	EET BUF	05/29/25 19:24
Total/NA	Prep	3050B			747266	EMO	EET BUF	05/28/25 15:39
Total/NA	Analysis	6010D		1	747540	BMB	EET BUF	05/30/25 11:49
Total/NA	Prep	7471B			747528	ESB	EET BUF	05/30/25 13:38
Total/NA	Analysis	7471B		1	747573	ESB	EET BUF	05/30/25 16:42
Total/NA	Prep	9012B			747417	AM	EET BUF	05/29/25 12:55
Total/NA	Analysis	9012B		1	747507	AM	EET BUF	05/29/25 20:28

Client Sample ID: RI-BH-12 Fill

Lab Sample ID: 480-229710-9

Date Collected: 05/27/25 11:40

Matrix: Solid

Date Received: 05/27/25 17:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	747287	VXF	EET BUF	05/28/25 14:42

Client Sample ID: RI-BH-12 Fill

Lab Sample ID: 480-229710-9

Date Collected: 05/27/25 11:40

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			747319	CDC	EET BUF	05/28/25 18:17
Total/NA	Analysis	8260C		1	747320	CDC	EET BUF	05/29/25 02:49
Total/NA	Prep	3546			747406	LSC	EET BUF	05/29/25 13:50
Total/NA	Analysis	8270D		1	747476	JMM	EET BUF	05/30/25 15:17
Total/NA	Prep	3546			747333	SMP	EET BUF	05/29/25 06:48
Total/NA	Analysis	8081B		1	747470	JLS	EET BUF	05/30/25 12:27
Total/NA	Prep	3550C			747458	SMP	EET BUF	05/30/25 06:41
Total/NA	Analysis	8082A		1	747511	C1P	EET BUF	05/30/25 16:39
Total/NA	Prep	1633 Shake			651279	M7AT	ELLE	06/01/25 11:59
Total/NA	Analysis	1633		1	651610	JU9U	ELLE	06/02/25 13:12
Total/NA	Prep	3050B			747266	EMO	EET BUF	05/28/25 15:39
Total/NA	Analysis	6010D		1	747461	BMB	EET BUF	05/29/25 19:26
Total/NA	Prep	3050B			747266	EMO	EET BUF	05/28/25 15:39
Total/NA	Analysis	6010D		1	747540	BMB	EET BUF	05/30/25 11:51
Total/NA	Prep	7471B			747528	ESB	EET BUF	05/30/25 13:38
Total/NA	Analysis	7471B		1	747573	ESB	EET BUF	05/30/25 16:43
Total/NA	Prep	9012B			747417	AM	EET BUF	05/29/25 12:55
Total/NA	Analysis	9012B		1	747507	AM	EET BUF	05/29/25 20:29

Eurofins Buffalo

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-13 Fill

Lab Sample ID: 480-229710-10

Date Collected: 05/27/25 12:00

Matrix: Solid

Date Received: 05/27/25 17:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	747287	VXF	EET BUF	05/28/25 14:42

Client Sample ID: RI-BH-13 Fill

Lab Sample ID: 480-229710-10

Date Collected: 05/27/25 12:00

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 73.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			747319	CDC	EET BUF	05/28/25 18:17
Total/NA	Analysis	8260C		1	747320	CDC	EET BUF	05/29/25 03:13
Total/NA	Prep	3546			747406	LSC	EET BUF	05/29/25 13:50
Total/NA	Analysis	8270D		1	747476	JMM	EET BUF	05/30/25 15:42
Total/NA	Prep	3546			747333	SMP	EET BUF	05/29/25 06:48
Total/NA	Analysis	8081B		20	747470	JLS	EET BUF	05/30/25 12:46
Total/NA	Prep	3550C			747458	SMP	EET BUF	05/30/25 06:41
Total/NA	Analysis	8082A		1	747511	C1P	EET BUF	05/30/25 16:57
Total/NA	Prep	1633 Shake			651279	M7AT	ELLE	06/01/25 11:59
Total/NA	Analysis	1633		1	651610	JU9U	ELLE	06/02/25 13:26
Total/NA	Prep	3050B			747266	EMO	EET BUF	05/28/25 15:39
Total/NA	Analysis	6010D		1	747461	BMB	EET BUF	05/29/25 19:33
Total/NA	Prep	3050B			747266	EMO	EET BUF	05/28/25 15:39
Total/NA	Analysis	6010D		1	747540	BMB	EET BUF	05/30/25 11:52
Total/NA	Prep	7471B			747528	ESB	EET BUF	05/30/25 13:38
Total/NA	Analysis	7471B		1	747573	ESB	EET BUF	05/30/25 16:47
Total/NA	Prep	9012B			747417	AM	EET BUF	05/29/25 12:55
Total/NA	Analysis	9012B		1	747507	AM	EET BUF	05/29/25 20:29

Client Sample ID: RI-BH-14 Fill

Lab Sample ID: 480-229710-11

Date Collected: 05/27/25 12:10

Matrix: Solid

Date Received: 05/27/25 17:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	747287	VXF	EET BUF	05/28/25 14:42

Client Sample ID: RI-BH-14 Fill

Lab Sample ID: 480-229710-11

Date Collected: 05/27/25 12:10

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			747319	CDC	EET BUF	05/28/25 18:17
Total/NA	Analysis	8260C		1	747320	CDC	EET BUF	05/29/25 03:36
Total/NA	Prep	3546			747406	LSC	EET BUF	05/29/25 13:50
Total/NA	Analysis	8270D		1	747476	JMM	EET BUF	05/30/25 16:07
Total/NA	Prep	3546			747333	SMP	EET BUF	05/29/25 06:48
Total/NA	Analysis	8081B		1	747470	JLS	EET BUF	05/30/25 13:06

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-14 Fill

Lab Sample ID: 480-229710-11

Date Collected: 05/27/25 12:10

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			747458	SMP	EET BUF	05/30/25 06:41
Total/NA	Analysis	8082A		1	747511	C1P	EET BUF	05/30/25 17:16
Total/NA	Prep	1633 Shake			651279	M7AT	ELLE	06/01/25 11:59
Total/NA	Analysis	1633		1	651610	JU9U	ELLE	06/02/25 13:40
Total/NA	Prep	3050B			747266	EMO	EET BUF	05/28/25 15:39
Total/NA	Analysis	6010D		1	747461	BMB	EET BUF	05/29/25 19:35
Total/NA	Prep	3050B			747266	EMO	EET BUF	05/28/25 15:39
Total/NA	Analysis	6010D		1	747540	BMB	EET BUF	05/30/25 11:54
Total/NA	Prep	7471B			747515	ESB	EET BUF	05/30/25 13:38
Total/NA	Analysis	7471B		1	747573	ESB	EET BUF	05/30/25 15:20
Total/NA	Prep	9012B			747600	AM	EET BUF	05/31/25 12:17
Total/NA	Analysis	9012B		1	747605	AM	EET BUF	05/31/25 17:23

Client Sample ID: RI-BH-15 Fill

Lab Sample ID: 480-229710-12

Date Collected: 05/27/25 12:20

Matrix: Solid

Date Received: 05/27/25 17:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	747287	VXF	EET BUF	05/28/25 14:42

Client Sample ID: RI-BH-15 Fill

Lab Sample ID: 480-229710-12

Date Collected: 05/27/25 12:20

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 87.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			747319	CDC	EET BUF	05/28/25 18:17
Total/NA	Analysis	8260C		1	747320	CDC	EET BUF	05/29/25 04:00
Total/NA	Prep	3546			747406	LSC	EET BUF	05/29/25 13:50
Total/NA	Analysis	8270D		1	747476	JMM	EET BUF	05/30/25 16:31
Total/NA	Prep	3546			747333	SMP	EET BUF	05/29/25 06:48
Total/NA	Analysis	8081B		1	747470	JLS	EET BUF	05/30/25 13:25
Total/NA	Prep	3550C			747458	SMP	EET BUF	05/30/25 06:41
Total/NA	Analysis	8082A		1	747511	C1P	EET BUF	05/30/25 17:34
Total/NA	Prep	1633 Shake			651279	M7AT	ELLE	06/01/25 11:59
Total/NA	Analysis	1633		1	651610	JU9U	ELLE	06/02/25 13:53
Total/NA	Prep	3050B			747266	EMO	EET BUF	05/28/25 15:39
Total/NA	Analysis	6010D		1	747461	BMB	EET BUF	05/29/25 19:37
Total/NA	Prep	3050B			747266	EMO	EET BUF	05/28/25 15:39
Total/NA	Analysis	6010D		1	747540	BMB	EET BUF	05/30/25 11:56
Total/NA	Prep	7471B			747515	ESB	EET BUF	05/30/25 13:38
Total/NA	Analysis	7471B		1	747573	ESB	EET BUF	05/30/25 15:21
Total/NA	Prep	9012B			747600	AM	EET BUF	05/31/25 12:17
Total/NA	Analysis	9012B		1	747605	AM	EET BUF	05/31/25 17:26

Eurofins Buffalo

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-15 Native

Lab Sample ID: 480-229710-13

Date Collected: 05/27/25 12:40

Matrix: Solid

Date Received: 05/27/25 17:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	747287	VXF	EET BUF	05/28/25 14:42

Client Sample ID: RI-BH-15 Native

Lab Sample ID: 480-229710-13

Date Collected: 05/27/25 12:40

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			747319	CDC	EET BUF	05/28/25 18:17
Total/NA	Analysis	8260C		1	747320	CDC	EET BUF	05/29/25 04:24
Total/NA	Prep	3546			747406	LSC	EET BUF	05/29/25 13:50
Total/NA	Analysis	8270D		1	747476	JMM	EET BUF	05/30/25 16:56
Total/NA	Prep	3546			747333	SMP	EET BUF	05/29/25 06:48
Total/NA	Analysis	8081B		1	747470	JLS	EET BUF	05/30/25 13:45
Total/NA	Prep	3550C			747458	SMP	EET BUF	05/30/25 06:41
Total/NA	Analysis	8082A		1	747511	C1P	EET BUF	05/30/25 17:52
Total/NA	Prep	1633 Shake			651279	M7AT	ELLE	06/01/25 11:59
Total/NA	Analysis	1633		1	651610	JU9U	ELLE	06/02/25 14:07
Total/NA	Prep	3050B			747266	EMO	EET BUF	05/28/25 15:39
Total/NA	Analysis	6010D		1	747461	BMB	EET BUF	05/29/25 19:39
Total/NA	Prep	3050B			747266	EMO	EET BUF	05/28/25 15:39
Total/NA	Analysis	6010D		1	747540	BMB	EET BUF	05/30/25 11:58
Total/NA	Prep	7471B			747515	ESB	EET BUF	05/30/25 13:38
Total/NA	Analysis	7471B		1	747573	ESB	EET BUF	05/30/25 15:23
Total/NA	Prep	9012B			747600	AM	EET BUF	05/31/25 12:17
Total/NA	Analysis	9012B		1	747605	AM	EET BUF	05/31/25 17:27

Client Sample ID: RI-BH-16 Fill

Lab Sample ID: 480-229710-14

Date Collected: 05/27/25 13:00

Matrix: Solid

Date Received: 05/27/25 17:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	747287	VXF	EET BUF	05/28/25 14:42

Client Sample ID: RI-BH-16 Fill

Lab Sample ID: 480-229710-14

Date Collected: 05/27/25 13:00

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			747319	CDC	EET BUF	05/28/25 18:17
Total/NA	Analysis	8260C		1	747320	CDC	EET BUF	05/29/25 04:47
Total/NA	Prep	3546			747406	LSC	EET BUF	05/29/25 13:50
Total/NA	Analysis	8270D		1	747476	JMM	EET BUF	05/30/25 17:36
Total/NA	Prep	3546			747333	SMP	EET BUF	05/29/25 06:48
Total/NA	Analysis	8081B		1	747470	JLS	EET BUF	05/30/25 14:04

Eurofins Buffalo

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-16 Fill

Lab Sample ID: 480-229710-14

Date Collected: 05/27/25 13:00

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			747458	SMP	EET BUF	05/30/25 06:41
Total/NA	Analysis	8082A		1	747511	C1P	EET BUF	05/30/25 18:11
Total/NA	Prep	1633 Shake			651279	M7AT	ELLE	06/01/25 11:59
Total/NA	Analysis	1633		1	651610	JU9U	ELLE	06/02/25 14:47
Total/NA	Prep	3050B			747266	EMO	EET BUF	05/28/25 15:39
Total/NA	Analysis	6010D		1	747461	BMB	EET BUF	05/29/25 19:41
Total/NA	Prep	3050B			747266	EMO	EET BUF	05/28/25 15:39
Total/NA	Analysis	6010D		1	747540	BMB	EET BUF	05/30/25 12:00
Total/NA	Prep	7471B			747515	ESB	EET BUF	05/30/25 13:38
Total/NA	Analysis	7471B		1	747573	ESB	EET BUF	05/30/25 15:24
Total/NA	Prep	9012B			747600	AM	EET BUF	05/31/25 12:17
Total/NA	Analysis	9012B		1	747605	AM	EET BUF	05/31/25 17:28

Client Sample ID: RI-BH-17 Fill

Lab Sample ID: 480-229710-15

Date Collected: 05/27/25 13:20

Matrix: Solid

Date Received: 05/27/25 17:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	747287	VXF	EET BUF	05/28/25 14:42

Client Sample ID: RI-BH-17 Fill

Lab Sample ID: 480-229710-15

Date Collected: 05/27/25 13:20

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 81.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			747319	CDC	EET BUF	05/28/25 18:17
Total/NA	Analysis	8260C		1	747320	CDC	EET BUF	05/29/25 05:11
Total/NA	Prep	3546			747406	LSC	EET BUF	05/29/25 13:50
Total/NA	Analysis	8270D		1	747476	JMM	EET BUF	05/30/25 18:01
Total/NA	Prep	3546			747333	SMP	EET BUF	05/29/25 06:48
Total/NA	Analysis	8081B		1	747470	JLS	EET BUF	05/30/25 14:24
Total/NA	Prep	3550C			747458	SMP	EET BUF	05/30/25 06:41
Total/NA	Analysis	8082A		1	747511	C1P	EET BUF	05/30/25 18:29
Total/NA	Prep	1633 Shake			651279	M7AT	ELLE	06/01/25 11:59
Total/NA	Analysis	1633		1	651610	JU9U	ELLE	06/02/25 15:01
Total/NA	Prep	3050B			747266	EMO	EET BUF	05/28/25 15:39
Total/NA	Analysis	6010D		1	747461	BMB	EET BUF	05/29/25 19:43
Total/NA	Prep	3050B			747266	EMO	EET BUF	05/28/25 15:39
Total/NA	Analysis	6010D		1	747540	BMB	EET BUF	05/30/25 12:12
Total/NA	Prep	3050B			747266	EMO	EET BUF	05/28/25 15:39
Total/NA	Analysis	6010D		5	748004	BMB	EET BUF	06/05/25 11:47
Total/NA	Prep	7471B			747515	ESB	EET BUF	05/30/25 13:38
Total/NA	Analysis	7471B		1	747573	ESB	EET BUF	05/30/25 15:28
Total/NA	Prep	9012B			747600	AM	EET BUF	05/31/25 12:17
Total/NA	Analysis	9012B		1	747605	AM	EET BUF	05/31/25 17:30

Eurofins Buffalo

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-17 Native

Lab Sample ID: 480-229710-16

Date Collected: 05/27/25 13:30

Matrix: Solid

Date Received: 05/27/25 17:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	747287	VXF	EET BUF	05/28/25 14:42

Client Sample ID: RI-BH-17 Native

Lab Sample ID: 480-229710-16

Date Collected: 05/27/25 13:30

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			747319	CDC	EET BUF	05/28/25 18:17
Total/NA	Analysis	8260C		1	747320	CDC	EET BUF	05/29/25 05:34
Total/NA	Prep	3546			747406	LSC	EET BUF	05/29/25 13:50
Total/NA	Analysis	8270D		1	747476	JMM	EET BUF	05/30/25 18:25
Total/NA	Prep	3546			747333	SMP	EET BUF	05/29/25 06:48
Total/NA	Analysis	8081B		1	747470	JLS	EET BUF	05/30/25 14:43
Total/NA	Prep	3550C			747458	SMP	EET BUF	05/30/25 06:41
Total/NA	Analysis	8082A		1	747511	C1P	EET BUF	05/30/25 19:24
Total/NA	Prep	1633 Shake			651279	M7AT	ELLE	06/01/25 11:59
Total/NA	Analysis	1633		1	651610	JU9U	ELLE	06/02/25 15:15
Total/NA	Prep	3050B			747266	EMO	EET BUF	05/28/25 15:39
Total/NA	Analysis	6010D		1	747461	BMB	EET BUF	05/29/25 19:45
Total/NA	Prep	3050B			747266	EMO	EET BUF	05/28/25 15:39
Total/NA	Analysis	6010D		1	747540	BMB	EET BUF	05/30/25 12:14
Total/NA	Prep	7471B			747515	ESB	EET BUF	05/30/25 13:38
Total/NA	Analysis	7471B		1	747573	ESB	EET BUF	05/30/25 15:29
Total/NA	Prep	9012B			747600	AM	EET BUF	05/31/25 12:17
Total/NA	Analysis	9012B		1	747605	AM	EET BUF	05/31/25 17:31

Client Sample ID: RI-BH-18 Fill

Lab Sample ID: 480-229710-17

Date Collected: 05/27/25 13:45

Matrix: Solid

Date Received: 05/27/25 17:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	747287	VXF	EET BUF	05/28/25 14:42

Client Sample ID: RI-BH-18 Fill

Lab Sample ID: 480-229710-17

Date Collected: 05/27/25 13:45

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			747319	CDC	EET BUF	05/28/25 18:17
Total/NA	Analysis	8260C		1	747320	CDC	EET BUF	05/29/25 05:58
Total/NA	Prep	3546			747406	LSC	EET BUF	05/29/25 13:50
Total/NA	Analysis	8270D		1	747476	JMM	EET BUF	05/30/25 18:50
Total/NA	Prep	3546			747333	SMP	EET BUF	05/29/25 06:48
Total/NA	Analysis	8081B		1	747470	JLS	EET BUF	05/30/25 15:03

Eurofins Buffalo

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-18 Fill

Lab Sample ID: 480-229710-17

Date Collected: 05/27/25 13:45

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			747458	SMP	EET BUF	05/30/25 06:41
Total/NA	Analysis	8082A		1	747511	C1P	EET BUF	05/30/25 19:43
Total/NA	Prep	1633 Shake			651279	M7AT	ELLE	06/01/25 11:59
Total/NA	Analysis	1633		1	651610	JU9U	ELLE	06/02/25 15:28
Total/NA	Prep	3050B			747266	EMO	EET BUF	05/28/25 15:39
Total/NA	Analysis	6010D		1	747461	BMB	EET BUF	05/29/25 19:47
Total/NA	Prep	3050B			747266	EMO	EET BUF	05/28/25 15:39
Total/NA	Analysis	6010D		1	747540	BMB	EET BUF	05/30/25 12:16
Total/NA	Prep	7471B			747515	ESB	EET BUF	05/30/25 13:38
Total/NA	Analysis	7471B		1	747573	ESB	EET BUF	05/30/25 15:30
Total/NA	Prep	9012B			747600	AM	EET BUF	05/31/25 12:17
Total/NA	Analysis	9012B		1	747605	AM	EET BUF	05/31/25 17:31

Client Sample ID: RI-BH-18 Native

Lab Sample ID: 480-229710-18

Date Collected: 05/27/25 14:00

Matrix: Solid

Date Received: 05/27/25 17:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	747287	VXF	EET BUF	05/28/25 14:42

Client Sample ID: RI-BH-18 Native

Lab Sample ID: 480-229710-18

Date Collected: 05/27/25 14:00

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 86.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			747319	CDC	EET BUF	05/28/25 18:17
Total/NA	Analysis	8260C		1	747320	CDC	EET BUF	05/29/25 06:22
Total/NA	Prep	3546			747406	LSC	EET BUF	05/29/25 13:50
Total/NA	Analysis	8270D		1	747476	JMM	EET BUF	05/30/25 19:15
Total/NA	Prep	3546			747333	SMP	EET BUF	05/29/25 06:48
Total/NA	Analysis	8081B		1	747470	JLS	EET BUF	05/30/25 15:23
Total/NA	Prep	3550C			747458	SMP	EET BUF	05/30/25 06:41
Total/NA	Analysis	8082A		1	747511	C1P	EET BUF	05/30/25 20:01
Total/NA	Prep	1633 Shake			651279	M7AT	ELLE	06/01/25 11:59
Total/NA	Analysis	1633		1	651610	JU9U	ELLE	06/02/25 15:42
Total/NA	Prep	3050B			747297	EMO	EET BUF	05/29/25 15:23
Total/NA	Analysis	6010D		1	747639	BMB	EET BUF	05/30/25 22:16
Total/NA	Prep	3050B			747297	EMO	EET BUF	05/29/25 15:23
Total/NA	Analysis	6010D		1	747956	BMB	EET BUF	06/04/25 19:22
Total/NA	Prep	7471B			747515	ESB	EET BUF	05/30/25 13:38
Total/NA	Analysis	7471B		1	747573	ESB	EET BUF	05/30/25 15:32
Total/NA	Prep	9012B			747600	AM	EET BUF	05/31/25 12:17
Total/NA	Analysis	9012B		1	747605	AM	EET BUF	05/31/25 17:32

Eurofins Buffalo

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-1 Fill

Lab Sample ID: 480-229710-19

Date Collected: 05/27/25 09:15

Matrix: Solid

Date Received: 05/27/25 17:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	747287	VXF	EET BUF	05/28/25 14:42

Client Sample ID: RI-BH-1 Fill

Lab Sample ID: 480-229710-19

Date Collected: 05/27/25 09:15

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			747438	CDC	EET BUF	05/29/25 18:01
Total/NA	Analysis	8260C		1	747441	LCH	EET BUF	05/29/25 21:59
Total/NA	Prep	3546			747406	LSC	EET BUF	05/29/25 13:50
Total/NA	Analysis	8270D		1	747476	JMM	EET BUF	05/30/25 19:39
Total/NA	Prep	3546			747333	SMP	EET BUF	05/29/25 06:48
Total/NA	Analysis	8081B		1	747470	JLS	EET BUF	05/30/25 15:42
Total/NA	Prep	3550C			747458	SMP	EET BUF	05/30/25 06:41
Total/NA	Analysis	8082A		1	747511	C1P	EET BUF	05/30/25 20:19
Total/NA	Prep	1633 Shake			651279	M7AT	ELLE	06/01/25 11:59
Total/NA	Analysis	1633		1	651610	JU9U	ELLE	06/02/25 15:55
Total/NA	Prep	3050B			747297	EMO	EET BUF	05/29/25 15:23
Total/NA	Analysis	6010D		1	747639	BMB	EET BUF	05/30/25 22:18
Total/NA	Prep	3050B			747297	EMO	EET BUF	05/29/25 15:23
Total/NA	Analysis	6010D		1	747956	BMB	EET BUF	06/04/25 19:24
Total/NA	Prep	7471B			747515	ESB	EET BUF	05/30/25 13:38
Total/NA	Analysis	7471B		1	747573	ESB	EET BUF	05/30/25 15:33
Total/NA	Prep	9012B			747600	AM	EET BUF	05/31/25 12:17
Total/NA	Analysis	9012B		1	747605	AM	EET BUF	05/31/25 17:32

Client Sample ID: RI-BH-1 Native

Lab Sample ID: 480-229710-20

Date Collected: 05/27/25 09:20

Matrix: Solid

Date Received: 05/27/25 17:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	747287	VXF	EET BUF	05/28/25 14:42

Client Sample ID: RI-BH-1 Native

Lab Sample ID: 480-229710-20

Date Collected: 05/27/25 09:20

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 71.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			747322	CDC	EET BUF	05/28/25 19:24
Total/NA	Analysis	8260C		1	747323	CDC	EET BUF	05/28/25 23:36
Total/NA	Prep	3546			747406	LSC	EET BUF	05/29/25 13:50
Total/NA	Analysis	8270D		1	747476	JMM	EET BUF	05/30/25 20:04
Total/NA	Prep	3546			747333	SMP	EET BUF	05/29/25 06:48
Total/NA	Analysis	8081B		1	747625	JLS	EET BUF	06/02/25 09:48

Eurofins Buffalo

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-1 Native

Lab Sample ID: 480-229710-20

Date Collected: 05/27/25 09:20

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 71.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			747458	SMP	EET BUF	05/30/25 06:41
Total/NA	Analysis	8082A		1	747511	C1P	EET BUF	05/30/25 20:37
Total/NA	Prep	1633 Shake			651279	M7AT	ELLE	06/01/25 11:59
Total/NA	Analysis	1633		1	651610	JU9U	ELLE	06/02/25 16:09
Total/NA	Prep	3050B			747297	EMO	EET BUF	05/29/25 15:23
Total/NA	Analysis	6010D		1	747639	BMB	EET BUF	05/30/25 22:20
Total/NA	Prep	3050B			747297	EMO	EET BUF	05/29/25 15:23
Total/NA	Analysis	6010D		1	747956	BMB	EET BUF	06/04/25 19:26
Total/NA	Prep	7471B			747515	ESB	EET BUF	05/30/25 13:38
Total/NA	Analysis	7471B		1	747573	ESB	EET BUF	05/30/25 15:34
Total/NA	Prep	9012B			747600	AM	EET BUF	05/31/25 12:17
Total/NA	Analysis	9012B		1	747605	AM	EET BUF	05/31/25 17:34

Client Sample ID: RI-BH-2 Fill

Lab Sample ID: 480-229710-21

Date Collected: 05/27/25 09:30

Matrix: Solid

Date Received: 05/27/25 17:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	747287	VXF	EET BUF	05/28/25 14:42

Client Sample ID: RI-BH-2 Fill

Lab Sample ID: 480-229710-21

Date Collected: 05/27/25 09:30

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 78.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			747438	CDC	EET BUF	05/29/25 18:01
Total/NA	Analysis	8260C		1	747441	LCH	EET BUF	05/29/25 22:26
Total/NA	Prep	3546			747406	LSC	EET BUF	05/29/25 13:50
Total/NA	Analysis	8270D		5	747476	JMM	EET BUF	05/30/25 20:29
Total/NA	Prep	3546			747333	SMP	EET BUF	05/29/25 06:48
Total/NA	Analysis	8081B		20	747625	JLS	EET BUF	06/02/25 10:08
Total/NA	Prep	3550C			747458	SMP	EET BUF	05/30/25 06:41
Total/NA	Analysis	8082A		1	747511	C1P	EET BUF	05/30/25 20:56
Total/NA	Prep	1633 Shake			651279	M7AT	ELLE	06/01/25 11:59
Total/NA	Analysis	1633		1	651610	JU9U	ELLE	06/02/25 16:23
Total/NA	Prep	3050B			747297	EMO	EET BUF	05/29/25 15:23
Total/NA	Analysis	6010D		1	747639	BMB	EET BUF	05/30/25 22:22
Total/NA	Prep	3050B			747297	EMO	EET BUF	05/29/25 15:23
Total/NA	Analysis	6010D		1	747956	BMB	EET BUF	06/04/25 19:28
Total/NA	Prep	7471B			747515	ESB	EET BUF	05/30/25 13:38
Total/NA	Analysis	7471B		1	747573	ESB	EET BUF	05/30/25 15:36
Total/NA	Prep	9012B			747600	AM	EET BUF	05/31/25 12:17
Total/NA	Analysis	9012B		1	747605	AM	EET BUF	05/31/25 17:35

Eurofins Buffalo

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-2 Native

Lab Sample ID: 480-229710-22

Date Collected: 05/27/25 09:35

Matrix: Solid

Date Received: 05/27/25 17:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	747287	VXF	EET BUF	05/28/25 14:42

Client Sample ID: RI-BH-2 Native

Lab Sample ID: 480-229710-22

Date Collected: 05/27/25 09:35

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 79.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			747322	CDC	EET BUF	05/28/25 19:24
Total/NA	Analysis	8260C		1	747323	CDC	EET BUF	05/29/25 00:30
Total/NA	Prep	3546			747406	LSC	EET BUF	05/29/25 13:50
Total/NA	Analysis	8270D		1	747476	JMM	EET BUF	05/30/25 20:53
Total/NA	Prep	3546			747333	SMP	EET BUF	05/29/25 06:48
Total/NA	Analysis	8081B		1	747625	JLS	EET BUF	06/02/25 10:27
Total/NA	Prep	3550C			747458	SMP	EET BUF	05/30/25 06:41
Total/NA	Analysis	8082A		1	747511	C1P	EET BUF	05/30/25 21:15
Total/NA	Prep	1633 Shake			651429	AM9P	ELLE	06/02/25 07:37
Total/NA	Analysis	1633		1	652026	P7EB	ELLE	06/03/25 21:11
Total/NA	Prep	1633 Shake	RE		652946	M7AT	ELLE	06/04/25 14:32
Total/NA	Analysis	1633	RE	1	653393	RPU6	ELLE	06/05/25 11:50
Total/NA	Prep	3050B			747297	EMO	EET BUF	05/29/25 15:23
Total/NA	Analysis	6010D		1	747639	BMB	EET BUF	05/30/25 22:24
Total/NA	Prep	3050B			747297	EMO	EET BUF	05/29/25 15:23
Total/NA	Analysis	6010D		1	747956	BMB	EET BUF	06/04/25 19:30
Total/NA	Prep	7471B			747515	ESB	EET BUF	05/30/25 13:38
Total/NA	Analysis	7471B		1	747573	ESB	EET BUF	05/30/25 15:37
Total/NA	Prep	9012B			747600	AM	EET BUF	05/31/25 12:17
Total/NA	Analysis	9012B		1	747605	AM	EET BUF	05/31/25 17:35

Client Sample ID: RI-BH-3 Fill

Lab Sample ID: 480-229710-23

Date Collected: 05/27/25 09:40

Matrix: Solid

Date Received: 05/27/25 17:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	747287	VXF	EET BUF	05/28/25 14:42

Client Sample ID: RI-BH-3 Fill

Lab Sample ID: 480-229710-23

Date Collected: 05/27/25 09:40

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			747438	CDC	EET BUF	05/29/25 18:01
Total/NA	Analysis	8260C		1	747441	LCH	EET BUF	05/29/25 22:52
Total/NA	Prep	3546			747406	LSC	EET BUF	05/29/25 13:50
Total/NA	Analysis	8270D		1	747476	JMM	EET BUF	05/30/25 21:18

Eurofins Buffalo

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-3 Fill

Lab Sample ID: 480-229710-23

Date Collected: 05/27/25 09:40

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			747333	SMP	EET BUF	05/29/25 06:48
Total/NA	Analysis	8081B		1	747625	JLS	EET BUF	06/02/25 10:47
Total/NA	Prep	3550C			747458	SMP	EET BUF	05/30/25 06:41
Total/NA	Analysis	8082A		1	747511	C1P	EET BUF	05/30/25 21:33
Total/NA	Prep	1633 Shake			652946	M7AT	ELLE	06/04/25 14:32
Total/NA	Analysis	1633		1	653393	RPU6	ELLE	06/05/25 12:03
Total/NA	Prep	3050B			747297	EMO	EET BUF	05/29/25 15:23
Total/NA	Analysis	6010D		1	747639	BMB	EET BUF	05/30/25 22:26
Total/NA	Prep	3050B			747297	EMO	EET BUF	05/29/25 15:23
Total/NA	Analysis	6010D		1	747956	BMB	EET BUF	06/04/25 19:32
Total/NA	Prep	7471B			747527	ESB	EET BUF	05/30/25 13:38
Total/NA	Analysis	7471B		1	747573	ESB	EET BUF	05/30/25 16:06
Total/NA	Prep	9012B			747600	AM	EET BUF	05/31/25 12:17
Total/NA	Analysis	9012B		1	747605	AM	EET BUF	05/31/25 17:36

Client Sample ID: RI-BH-4 Fill

Lab Sample ID: 480-229710-24

Date Collected: 05/27/25 09:45

Matrix: Solid

Date Received: 05/27/25 17:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	747287	VXF	EET BUF	05/28/25 14:42

Client Sample ID: RI-BH-4 Fill

Lab Sample ID: 480-229710-24

Date Collected: 05/27/25 09:45

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 78.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			747438	CDC	EET BUF	05/29/25 18:01
Total/NA	Analysis	8260C		1	747441	LCH	EET BUF	05/29/25 23:19
Total/NA	Prep	3546			747407	LSC	EET BUF	05/29/25 13:56
Total/NA	Analysis	8270D		1	747473	JMM	EET BUF	05/30/25 16:42
Total/NA	Prep	3546			747334	SMP	EET BUF	05/29/25 06:53
Total/NA	Analysis	8081B		1	747468	JLS	EET BUF	05/30/25 14:57
Total/NA	Prep	3550C			747543	LSC	EET BUF	05/30/25 13:30
Total/NA	Analysis	8082A		1	747619	H9RU	EET BUF	06/02/25 11:51
Total/NA	Prep	1633 Shake			651429	AM9P	ELLE	06/02/25 07:37
Total/NA	Analysis	1633		1	652026	P7EB	ELLE	06/03/25 21:39
Total/NA	Prep	1633 Shake	RE		652946	M7AT	ELLE	06/04/25 14:32
Total/NA	Analysis	1633	RE	1	653393	RPU6	ELLE	06/05/25 12:17
Total/NA	Prep	3050B			747297	EMO	EET BUF	05/29/25 15:23
Total/NA	Analysis	6010D		1	747639	BMB	EET BUF	05/30/25 22:27
Total/NA	Prep	3050B			747297	EMO	EET BUF	05/29/25 15:23
Total/NA	Analysis	6010D		1	747956	BMB	EET BUF	06/04/25 19:34
Total/NA	Prep	7471B			747527	ESB	EET BUF	05/30/25 13:38
Total/NA	Analysis	7471B		1	747573	ESB	EET BUF	05/30/25 16:07

Eurofins Buffalo

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-4 Fill

Lab Sample ID: 480-229710-24

Date Collected: 05/27/25 09:45

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 78.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	9012B			747600	AM	EET BUF	05/31/25 12:17
Total/NA	Analysis	9012B		1	747605	AM	EET BUF	05/31/25 17:39

Client Sample ID: RI-BH-5 Fill

Lab Sample ID: 480-229710-25

Date Collected: 05/27/25 10:00

Matrix: Solid

Date Received: 05/27/25 17:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	747287	VXF	EET BUF	05/28/25 14:42

Client Sample ID: RI-BH-5 Fill

Lab Sample ID: 480-229710-25

Date Collected: 05/27/25 10:00

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			747438	CDC	EET BUF	05/29/25 18:01
Total/NA	Analysis	8260C		1	747441	LCH	EET BUF	05/29/25 23:46
Total/NA	Prep	3546			747407	LSC	EET BUF	05/29/25 13:56
Total/NA	Analysis	8270D		1	747473	JMM	EET BUF	05/30/25 17:07
Total/NA	Prep	3546			747334	SMP	EET BUF	05/29/25 06:53
Total/NA	Analysis	8081B		1	747468	JLS	EET BUF	05/30/25 14:37
Total/NA	Prep	3550C			747543	LSC	EET BUF	05/30/25 13:30
Total/NA	Analysis	8082A		1	747619	H9RU	EET BUF	06/02/25 12:10
Total/NA	Prep	1633 Shake			652946	M7AT	ELLE	06/04/25 14:32
Total/NA	Analysis	1633		1	653393	RPU6	ELLE	06/05/25 12:30
Total/NA	Prep	3050B			747297	EMO	EET BUF	05/29/25 15:23
Total/NA	Analysis	6010D		1	747639	BMB	EET BUF	05/30/25 22:35
Total/NA	Prep	3050B			747297	EMO	EET BUF	05/29/25 15:23
Total/NA	Analysis	6010D		1	747956	BMB	EET BUF	06/04/25 19:43
Total/NA	Prep	7471B			747527	ESB	EET BUF	05/30/25 13:38
Total/NA	Analysis	7471B		1	747573	ESB	EET BUF	05/30/25 16:08
Total/NA	Prep	9012B			747601	AM	EET BUF	05/31/25 13:30
Total/NA	Analysis	9012B		1	747605	AM	EET BUF	05/31/25 17:43

Client Sample ID: RI-BH-5 Native

Lab Sample ID: 480-229710-26

Date Collected: 05/27/25 10:10

Matrix: Solid

Date Received: 05/27/25 17:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	747287	VXF	EET BUF	05/28/25 14:42

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-5 Native

Lab Sample ID: 480-229710-26

Date Collected: 05/27/25 10:10

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			747322	CDC	EET BUF	05/28/25 19:24
Total/NA	Analysis	8260C		1	747323	CDC	EET BUF	05/29/25 02:18
Total/NA	Prep	3546			747407	LSC	EET BUF	05/29/25 13:56
Total/NA	Analysis	8270D		1	747473	JMM	EET BUF	05/30/25 17:31
Total/NA	Prep	3546			747334	SMP	EET BUF	05/29/25 06:53
Total/NA	Analysis	8081B		1	747468	JLS	EET BUF	05/30/25 15:17
Total/NA	Prep	3550C			747543	LSC	EET BUF	05/30/25 13:30
Total/NA	Analysis	8082A		1	747619	H9RU	EET BUF	06/02/25 12:28
Total/NA	Prep	1633 Shake			651429	AM9P	ELLE	06/02/25 07:37
Total/NA	Analysis	1633		1	652026	P7EB	ELLE	06/03/25 22:06
Total/NA	Prep	1633 Shake	RE		652946	M7AT	ELLE	06/04/25 14:32
Total/NA	Analysis	1633	RE	1	653393	RPU6	ELLE	06/05/25 12:44
Total/NA	Prep	3050B			747297	EMO	EET BUF	05/29/25 15:23
Total/NA	Analysis	6010D		1	747639	BMB	EET BUF	05/30/25 22:37
Total/NA	Prep	3050B			747297	EMO	EET BUF	05/29/25 15:23
Total/NA	Analysis	6010D		1	747956	BMB	EET BUF	06/04/25 19:45
Total/NA	Prep	7471B			747527	ESB	EET BUF	05/30/25 13:38
Total/NA	Analysis	7471B		1	747573	ESB	EET BUF	05/30/25 16:09
Total/NA	Prep	9012B			747601	AM	EET BUF	05/31/25 13:30
Total/NA	Analysis	9012B		1	747605	AM	EET BUF	05/31/25 17:44

Client Sample ID: RI-BH-6 Fill

Lab Sample ID: 480-229710-27

Date Collected: 05/27/25 10:20

Matrix: Solid

Date Received: 05/27/25 17:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	747287	VXF	EET BUF	05/28/25 14:42

Client Sample ID: RI-BH-6 Fill

Lab Sample ID: 480-229710-27

Date Collected: 05/27/25 10:20

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 81.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			747322	CDC	EET BUF	05/28/25 19:24
Total/NA	Analysis	8260C		1	747323	CDC	EET BUF	05/29/25 02:45
Total/NA	Prep	3546			747407	LSC	EET BUF	05/29/25 13:56
Total/NA	Analysis	8270D		1	747473	JMM	EET BUF	05/30/25 17:58
Total/NA	Prep	3546			747334	SMP	EET BUF	05/29/25 06:53
Total/NA	Analysis	8081B		1	747468	JLS	EET BUF	05/30/25 15:36
Total/NA	Prep	3550C			747543	LSC	EET BUF	05/30/25 13:30
Total/NA	Analysis	8082A		1	747619	H9RU	EET BUF	06/02/25 12:47
Total/NA	Prep	1633 Shake			652946	M7AT	ELLE	06/04/25 14:32
Total/NA	Analysis	1633		1	653393	RPU6	ELLE	06/05/25 12:58
Total/NA	Prep	3050B			747297	EMO	EET BUF	05/29/25 15:23
Total/NA	Analysis	6010D		1	747639	BMB	EET BUF	05/30/25 22:39

Eurofins Buffalo

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-6 Fill

Lab Sample ID: 480-229710-27

Date Collected: 05/27/25 10:20

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 81.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			747297	EMO	EET BUF	05/29/25 15:23
Total/NA	Analysis	6010D		1	747956	BMB	EET BUF	06/04/25 19:47
Total/NA	Prep	7471B			747527	ESB	EET BUF	05/30/25 13:38
Total/NA	Analysis	7471B		1	747573	ESB	EET BUF	05/30/25 16:11
Total/NA	Prep	9012B			747601	AM	EET BUF	05/31/25 13:30
Total/NA	Analysis	9012B		1	747605	AM	EET BUF	05/31/25 17:44

Client Sample ID: RI-BH-6 Native

Lab Sample ID: 480-229710-28

Date Collected: 05/27/25 10:25

Matrix: Solid

Date Received: 05/27/25 17:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	747287	VXF	EET BUF	05/28/25 14:42

Client Sample ID: RI-BH-6 Native

Lab Sample ID: 480-229710-28

Date Collected: 05/27/25 10:25

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			747438	CDC	EET BUF	05/29/25 18:01
Total/NA	Analysis	8260C		1	747441	LCH	EET BUF	05/30/25 00:12
Total/NA	Prep	3546			747407	LSC	EET BUF	05/29/25 13:56
Total/NA	Analysis	8270D		1	747473	JMM	EET BUF	05/30/25 18:29
Total/NA	Prep	3546			747334	SMP	EET BUF	05/29/25 06:53
Total/NA	Analysis	8081B		1	747468	JLS	EET BUF	05/30/25 15:56
Total/NA	Prep	3550C			747543	LSC	EET BUF	05/30/25 13:30
Total/NA	Analysis	8082A		1	747619	H9RU	EET BUF	06/02/25 13:05
Total/NA	Prep	1633 Shake			652946	M7AT	ELLE	06/04/25 14:32
Total/NA	Analysis	1633		1	653393	RPU6	ELLE	06/05/25 13:11
Total/NA	Prep	3050B			747297	EMO	EET BUF	05/29/25 15:23
Total/NA	Analysis	6010D		1	747639	BMB	EET BUF	05/30/25 22:41
Total/NA	Prep	3050B			747297	EMO	EET BUF	05/29/25 15:23
Total/NA	Analysis	6010D		1	747956	BMB	EET BUF	06/04/25 19:49
Total/NA	Prep	7471B			747527	ESB	EET BUF	05/30/25 13:38
Total/NA	Analysis	7471B		1	747573	ESB	EET BUF	05/30/25 16:12
Total/NA	Prep	9012B			747601	AM	EET BUF	05/31/25 13:30
Total/NA	Analysis	9012B		1	747605	AM	EET BUF	05/31/25 17:47

Client Sample ID: RI-BH-7 Fill

Lab Sample ID: 480-229710-29

Date Collected: 05/27/25 10:35

Matrix: Solid

Date Received: 05/27/25 17:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	747287	VXF	EET BUF	05/28/25 14:42

Eurofins Buffalo

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Client Sample ID: RI-BH-7 Fill

Lab Sample ID: 480-229710-29

Date Collected: 05/27/25 10:35

Matrix: Solid

Date Received: 05/27/25 17:57

Percent Solids: 73.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			747438	CDC	EET BUF	05/29/25 18:01
Total/NA	Analysis	8260C		1	747441	LCH	EET BUF	05/30/25 00:39
Total/NA	Prep	3546			747407	LSC	EET BUF	05/29/25 13:56
Total/NA	Analysis	8270D		1	747473	JMM	EET BUF	05/30/25 18:53
Total/NA	Prep	3546	DL		747407	LSC	EET BUF	05/29/25 13:56
Total/NA	Analysis	8270D	DL	5	747628	JMM	EET BUF	06/02/25 18:07
Total/NA	Prep	3546			747334	SMP	EET BUF	05/29/25 06:53
Total/NA	Analysis	8081B		20	747468	JLS	EET BUF	05/30/25 16:15
Total/NA	Prep	3550C			747543	LSC	EET BUF	05/30/25 13:30
Total/NA	Analysis	8082A		1	747619	H9RU	EET BUF	06/02/25 13:24
Total/NA	Prep	1633 Shake			652946	M7AT	ELLE	06/04/25 14:32
Total/NA	Analysis	1633		1	653393	RPU6	ELLE	06/05/25 13:25
Total/NA	Prep	3050B			747297	EMO	EET BUF	05/29/25 15:23
Total/NA	Analysis	6010D		1	747639	BMB	EET BUF	05/30/25 22:51
Total/NA	Prep	3050B			747297	EMO	EET BUF	05/29/25 15:23
Total/NA	Analysis	6010D		1	747956	BMB	EET BUF	06/04/25 19:59
Total/NA	Prep	7471B			747527	ESB	EET BUF	05/30/25 13:38
Total/NA	Analysis	7471B		1	747573	ESB	EET BUF	05/30/25 16:16
Total/NA	Prep	9012B			747601	AM	EET BUF	05/31/25 13:30
Total/NA	Analysis	9012B		1	747605	AM	EET BUF	05/31/25 17:48

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
1633	1633 Shake	Solid	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)
1633	1633 Shake	Solid	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)
1633	1633 Shake	Solid	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)
1633	1633 Shake	Solid	3-Perfluoroheptylpropanoic acid (7:3 FTCA)
1633	1633 Shake	Solid	3-Perfluoropentylpropanoic acid (5:3 FTCA)
1633	1633 Shake	Solid	3-Perfluoropropylpropanoic acid (3:3 FTCA)
1633	1633 Shake	Solid	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)
1633	1633 Shake	Solid	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)
1633	1633 Shake	Solid	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)
1633	1633 Shake	Solid	N-ethylperfluorooctane sulfonamide (NEtFOSA)
1633	1633 Shake	Solid	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)
1633	1633 Shake	Solid	N-methylperfluorooctane sulfonamide (NMeFOSA)
1633	1633 Shake	Solid	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)
1633	1633 Shake	Solid	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)
1633	1633 Shake	Solid	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)
1633	1633 Shake	Solid	Perfluoro-3-methoxypropanoic acid (PFMPA)
1633	1633 Shake	Solid	Perfluoro-4-methoxybutanoic acid (PFMBA)
1633	1633 Shake	Solid	Perfluorobutanesulfonic acid (PFBS)
1633	1633 Shake	Solid	Perfluorodecanesulfonic acid (PFDS)
1633	1633 Shake	Solid	Perfluorododecanesulfonic acid (PFDoS)
1633	1633 Shake	Solid	Perfluoroheptanesulfonic acid (PFHpS)

Eurofins Buffalo

Accreditation/Certification Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
1633	1633 Shake	Solid	Perfluorohexanesulfonic acid (PFHxS)
1633	1633 Shake	Solid	Perfluorononanesulfonic acid (PFNS)
1633	1633 Shake	Solid	Perfluorooctanesulfonamide (PFOSA)
1633	1633 Shake	Solid	Perfluoropentanesulfonic acid (PFPeS)

Method Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET BUF
8081B	Organochlorine Pesticides (GC)	SW846	EET BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET BUF
1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	ELLE
6010D	Metals (ICP)	SW846	EET BUF
7471B	Mercury (CVAA)	SW846	EET BUF
9012B	Cyanide, Total and/or Amenable	SW846	EET BUF
Moisture	Percent Moisture	EPA	EET BUF
1633 Shake	Shake Extraction with SPE	EPA	ELLE
3050B	Preparation, Metals	SW846	EET BUF
3546	Microwave Extraction	SW846	EET BUF
3550C	Ultrasonic Extraction	SW846	EET BUF
5035A_L	Closed System Purge and Trap	SW846	EET BUF
7471B	Preparation, Mercury	SW846	EET BUF
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-229710-1	RI-BH-7 Native	Solid	05/27/25 10:40	05/27/25 17:57
480-229710-2	RI-BH-8 Fill	Solid	05/27/25 10:50	05/27/25 17:57
480-229710-3	RI-BH-8 Native	Solid	05/27/25 10:55	05/27/25 17:57
480-229710-7	RI-BH-11 Fill	Solid	05/27/25 11:25	05/27/25 17:57
480-229710-8	RI-BH-11 Native	Solid	05/27/25 11:30	05/27/25 17:57
480-229710-9	RI-BH-12 Fill	Solid	05/27/25 11:40	05/27/25 17:57
480-229710-10	RI-BH-13 Fill	Solid	05/27/25 12:00	05/27/25 17:57
480-229710-11	RI-BH-14 Fill	Solid	05/27/25 12:10	05/27/25 17:57
480-229710-12	RI-BH-15 Fill	Solid	05/27/25 12:20	05/27/25 17:57
480-229710-13	RI-BH-15 Native	Solid	05/27/25 12:40	05/27/25 17:57
480-229710-14	RI-BH-16 Fill	Solid	05/27/25 13:00	05/27/25 17:57
480-229710-15	RI-BH-17 Fill	Solid	05/27/25 13:20	05/27/25 17:57
480-229710-16	RI-BH-17 Native	Solid	05/27/25 13:30	05/27/25 17:57
480-229710-17	RI-BH-18 Fill	Solid	05/27/25 13:45	05/27/25 17:57
480-229710-18	RI-BH-18 Native	Solid	05/27/25 14:00	05/27/25 17:57
480-229710-19	RI-BH-1 Fill	Solid	05/27/25 09:15	05/27/25 17:57
480-229710-20	RI-BH-1 Native	Solid	05/27/25 09:20	05/27/25 17:57
480-229710-21	RI-BH-2 Fill	Solid	05/27/25 09:30	05/27/25 17:57
480-229710-22	RI-BH-2 Native	Solid	05/27/25 09:35	05/27/25 17:57
480-229710-23	RI-BH-3 Fill	Solid	05/27/25 09:40	05/27/25 17:57
480-229710-24	RI-BH-4 Fill	Solid	05/27/25 09:45	05/27/25 17:57
480-229710-25	RI-BH-5 Fill	Solid	05/27/25 10:00	05/27/25 17:57
480-229710-26	RI-BH-5 Native	Solid	05/27/25 10:10	05/27/25 17:57
480-229710-27	RI-BH-6 Fill	Solid	05/27/25 10:20	05/27/25 17:57
480-229710-28	RI-BH-6 Native	Solid	05/27/25 10:25	05/27/25 17:57
480-229710-29	RI-BH-7 Fill	Solid	05/27/25 10:35	05/27/25 17:57

Quantitation Limit Exceptions Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229710-1

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Analyte	Matrix	Prep Type	Unit	Client RL	Lab PQL
1633	Perfluorononanoic acid (PFNA)	Solid	Total/NA	ng/g	0.056	0.2

Chain of Custody Record



Environment Testing

Client Information		Sampler: Beninati, John		Lab PM: Beninati, John		Carrier Tracking No(s): 480-205003-41794.1		COC No: 480-205003-41794.1	
Client Contact: Paul Staub		Phone:		E-Mail: John.Beninati@et.eurofins.com		State of Origin:		Page: Page 1 of 5	
Company: Brydges Engineering in Environment & Energy DPC		PWSID:		Analysis Requested		Job #:		Preservation Codes: N - None B - NaOH D - HNO3 A - HCL	
Address: 960 Bust Ave Suite B-150		Due Date Requested:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of Containers	
City: Buffalo		TAT Requested (days): 5-day Rush						Other:	
State, Zip: NY, 14213		Compliance Project: ☒ Yes ☐ No							
Phone: 716-869-1564 (Tel)		PO #: Purchase Order not required							
Email: pstaub@be3corp.com		WO #:							
Project Name: 166 E 4th Street		Project #: 48028798							
Site:		SSOW#:							
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (Water, Solid, Over-sat, etc.)	
RI-BH-7 Nerve		5/27		10:40		G		Solid	
RI-BH-8 Fill				10:50				Solid	
RI-BH-8 Nerve				10:55				Solid	
RI-BH-9 Fill				11:00				Solid	
RI-BH-10 Fill				11:10				Solid	
RI-BH-10 Nerve				11:15				Solid	
RI-BH-11 Fill				11:25				Solid	
RI-BH-11 Nerve				11:30				Solid	
RI-BH-12 Fill				11:40				Solid	
RI-BH-13 Fill				12:00				Solid	
RI-BH-14 Fill				12:10				Solid	
Possible Hazard Identification		☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological							
Deliverable Requested: I, II, III, IV, Other (specify)									
Empty Kit Relinquished by: Ron Head		Date: 5/27 5:55		Company: BE3		Received by: LC		Date/Time: 5/27/25 17:57	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seal No.: ☐ Yes ☒ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: Ba 14.1 FCE IR #55					

480-229710 Chain of Custody

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client ☐ Disposal By Lab ☐ Archive For ☐ Months

Special Instructions/QC Requirements:

Time:

Method of Shipment:

[illegible]

Phone: 716-691-2600 Fax: 716-691-7991

Client Information		Sampler:	Lab PM	Carrier Tracking No(s):	COC No									
Client Contact: Paul Staub		Phone:	Beninati, John		480-205003-41794.4									
Company: Brydges Engineering in Environment & Energy DPC			E-Mail: John.Beninati@et.eurofins.com	State of Origin:	Page 4 of 5									
Address: 960 Busti Ave Suite B-150		PWSID:		Job #:										
City: Buffalo		Due Date Requested:		Analysis Requested										
State, Zip: NY, 14213		TAT Requested (days): 5-day RUSH		Preservation Codes: N - None B - NaOH D - HNO3 A - HCL										
Phone: 716-869-1564(Tel)		Compliance Project: ☒ Yes ☐ No		Other:										
Email: pstaub@be3corp.com		PO #: Purchase Order not required												
Project Name: 166 E 4th Street		WO #:												
Site:		Project #: 48028798												
SSOW#:														
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=oil, A=air)	Field Filtered Sample (Yes or No)	Perform. MS/MSD (Yes or No)	1633 Final - List of 40 based on EPA method	8260C - TCL VOCs + TICs	8270D - TCL SVOCs + TICs	8270D - SIM MS ID - 1,4 Dioxane	6010D, 7470A	8260C - TCL VOCs + TICs	Total Number of containers	Special Instructions/Note:
RI-BH-1 Fill	5/27	9:15	G	Solid										Please include the same 4 Analyses for All Soil Samples Sorry the Chain is messy
RI-BH-1 Native		9:20		Solid										
RI-BH-2 Fill		9:30		Solid										
RI-BH-2 Native		9:35		Water										
RI-BH-3 Native		9:40		Water										
RI-BH-4 Native		9:45		Water										
RI-BH-5 Fill		10:00		Water										
RI-BH-5 Native		10:10		Water										
RI-BH-6 Fill		10:20		Water										
RI-BH-6 Native		10:25		Water										
RI-BH-7 Fill		10:35		Water										
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological														
Deliverable Requested: I, II, III, IV, Other (specify)														
Empty Kit Relinquished by:														
Relinquished by: Paul Staub Date/Time: 5/27 5:55 Company: BE3														
Relinquished by: Date/Time: Company:														
Relinquished by: Date/Time: Company:														
Custody Seals Intact: ☐ Yes ☐ No Cooler Temperature(s) °C and Other Remarks:														

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

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10 Hazelwood Drive

Amherst, NY 14228-2298

Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler: N/A		Lab PM: Beninati, John		Carrier Tracking No(s): N/A		COC No: 480-92731.2			
Client Contact: Shipping/Receiving		Phone: N/A		E-Mail: John.Beninati@et.eurofinsus.com		State of Origin: New York		Page: Page 2 of 3			
Company: Eurofins Lancaster Laboratories Environm				Accreditations Required (See note): NELAP - New York				Job #: 480-229710-1			
Address: 2425 New Holland Pike,		Due Date Requested: 6/2/2025		Analysis Requested						Preservation Codes: -	
City: Lancaster		TAT Requested (days): N/A		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 1633_Final/1633_Shake_1g List of 40 based on EPA method Total Number of containers						Other: N/A	
State, Zip: PA, 17601		PO #: N/A									
Phone: 717-656-2300(Tel)		WO #: N/A									
Email: N/A		Project #: 48028798									
Project Name: 166 E 4th Street		SSOW#: N/A									
Site: N/A											
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)		Special Instructions/Note:	
						Preservation Code:					
RI-BH-15 Native (480-229710-13)		5/27/25		12:40 Eastern		G		Solid		1	
RI-BH-16 Fill (480-229710-14)		5/27/25		13:00 Eastern		G		Solid		1	
RI-BH-17 Fill (480-229710-15)		5/27/25		13:20 Eastern		G		Solid		1	
RI-BH-17 Native (480-229710-16)		5/27/25		13:30 Eastern		G		Solid		1	
RI-BH-18 Fill (480-229710-17)		5/27/25		13:45 Eastern		G		Solid		1	
RI-BH-18 Native (480-229710-18)		5/27/25		14:00 Eastern		G		Solid		1	
RI-BH-1 Fill (480-229710-19)		5/27/25		09:15 Eastern		G		Solid		1	
RI-BH-1 Native (480-229710-20)		5/27/25		09:20 Eastern		G		Solid		1	
RI-BH-2 Fill (480-229710-21)		5/27/25		09:30 Eastern		G		Solid		1	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.											
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
Unconfirmed						☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months					
Deliverable Requested: I, II, III, IV, Other (specify)						Special Instructions/QC Requirements:					
Empty Kit Relinquished by:				Date:		Time:		Method of Shipment:			
Relinquished by:				Date/Time:		Company:		Received by:			
Relinquished by:				Date/Time:		Company:		Received by:			
Relinquished by:				Date/Time:		Company:		Received by:			
Custody Seals Intact:				Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:					
X Yes Δ No						05/29/25 10:15 BLR 20					

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

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Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-229710-1

Login Number: 229710

List Source: Eurofins Buffalo

List Number: 1

Creator: Yeager, Brian A

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	13.2 14.1 ICE IR# SC
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	False	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BE3
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-229710-1

Login Number: 229710

List Number: 2

Creator: Santiago, Nathaniel

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Creation: 05/29/25 12:39 PM

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Paul Staub
Brydges Engineering in Environment & Energy DPC
960 Busti Ave
Suite B-150
Buffalo, New York 14213

Generated 6/5/2025 11:06:30 PM

JOB DESCRIPTION

166 E 4th Street

JOB NUMBER

480-229745-1

Eurofins Buffalo

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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Authorization



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Authorized for release by
John Beninati, Project Manager I
John.Beninati@et.eurofinsus.com
(716)504-9874

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Definitions/Glossary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
vs	Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035A- L low-level specifications.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

LCMS

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
^5-	Linear Range Check (LRC) is outside acceptance limits, low biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Definitions/Glossary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Qualifiers (Continued)

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Brydges Engineering in Environment & Energy DPC
Project: 166 E 4th Street

Job ID: 480-229745-1

Job ID: 480-229745-1

Eurofins Buffalo

Job Narrative 480-229745-1

Receipt

The samples were received on 5/28/2025 5:18 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 8.0° C.

Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria: RI-BH-9 (480-229745-1), RI-BH-10 (480-229745-2), RI-MW-1 (480-229745-3), RI-MW-1-MS (480-229745-3[MS]), RI-MW-1-MSD (480-229745-3[MSD]), RI-MW-2 (480-229745-4), RI-MW-3 (480-229745-5), RI-MW-3-DUP (480-229745-6), RI-MW-4 (480-229745-7), RI-MW-4-DUP (480-229745-8), RI-MW-5 (480-229745-9), RI-MW-5-MS (480-229745-9[MS]) and RI-MW-5-MSD (480-229745-9[MSD]). The sample(s) is considered acceptable since it was collected and submitted to the laboratory on the same day and there is evidence that the chilling process has begun.

GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-747444 recovered above the upper control limit for Methylene chloride, Trichloroethene and 2-Butanone (MEK). The samples associated with this CCV were not detected above the reporting limit (RL) for the affected analytes; therefore, the data have been reported. The associated samples are: RI-BH-9 (480-229745-1), RI-BH-10 (480-229745-2), RI-MW-2 (480-229745-4), RI-MW-3 (480-229745-5), RI-MW-3-DUP (480-229745-6), RI-MW-4 (480-229745-7), RI-MW-4-DUP (480-229745-8) and RI-MW-5 (480-229745-9).

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-747439 and analytical batch 480-747444 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8260C: Internal standard (ISTD) response for the following samples were outside control limits: RI-MW-1 (480-229745-3), RI-MW-1-MS (480-229745-3[MS]) and RI-MW-1-MSD (480-229745-3[MSD]). The sample and the sample QC confirmed ISTD response was outside control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-747473 recovered above the upper control limit for 2,4-Dinitrophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are: RI-BH-9 (480-229745-1), RI-BH-10 (480-229745-2), RI-MW-1 (480-229745-3), RI-MW-2 (480-229745-4), RI-MW-3 (480-229745-5), RI-MW-3-DUP (480-229745-6), RI-MW-4 (480-229745-7), RI-MW-4-DUP (480-229745-8) and RI-MW-5 (480-229745-9).

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 480-747407 and analytical batch 480-747473 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-747407 and analytical batch 480-747473 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8082A: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) samples: RI-MW-1-MS (480-229745-3[MS]) and RI-MW-5-MSD (480-229745-9[MSD]). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010D: The continuing calibration blank (CCB) for analytical batch 480-747639 contained Iron above the reporting limit (RL). All reported samples associated with this CCB contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Eurofins Buffalo

Case Narrative

Client: Brydges Engineering in Environment & Energy DPC
Project: 166 E 4th Street

Job ID: 480-229745-1

Job ID: 480-229745-1 (Continued)

Eurofins Buffalo

Method 6010D: The low level continuing calibration verification (CCVL) for analytical batch 480-747639 recovered above the upper control limit for (Iron). The samples associated with this CCVL contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples RI-BH-10 (480-229745-2), RI-MW-1 (480-229745-3), RI-MW-2 (480-229745-4), RI-MW-3 (480-229745-5), RI-MW-3-DUP (480-229745-6), RI-MW-4 (480-229745-7), RI-MW-4-DUP (480-229745-8) and RI-MW-5 (480-229745-9) was not performed.

Method 6010D: The linear range check (LRC) standard recovery associated with 480-747639 is outside the acceptance criteria for the following analytes: Beryllium, Calcium, Manganese, Nickel, and Zinc. The concentration of these analyte(s) in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported.

Method 6010D: The linear range check (LRC) standard recovery associated with 480-747639 is outside the acceptance criteria for the following analytes: Beryllium and Nickel. The concentration of these analyte(s) in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported.

Method 6010D: The linear range check (LRC) standard recovery associated with 480-747639 is outside the acceptance criteria for the following analytes: Calcium. The concentration of these analyte(s) in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported.

Method 6010D: The linear range check (LRC) standard recovery associated with 480-747639 is outside the acceptance criteria for the following analytes: Manganese. The concentration of these analyte(s) in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported.

Method 6010D: The linear range check (LRC) standard recovery associated with 480-747639 is outside the acceptance criteria for the following analytes: Zinc. The concentration of these analyte(s) in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

LCMS

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method 3546: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: RI-BH-10 (480-229745-2). The reporting limits (RLs) have been adjusted proportionately.

Method 3546: While the MS and MSD were dry, the parent was significantly wetter and had to be air dried prior to preparation.

RI-MW-1 (480-229745-3), RI-MW-1-MS (480-229745-3[MS]) and RI-MW-1-MSD (480-229745-3[MSD])

Method 3546: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: RI-BH-10 (480-229745-2). The reporting limits (RLs) have been adjusted proportionately.

Method 3546: While the MS and MSD were dry, the parent was significantly wetter and had to be air dried before preparation.

RI-MW-1 (480-229745-3), RI-MW-1-MS (480-229745-3[MS]) and RI-MW-1-MSD (480-229745-3[MSD])

Method 3546: The following samples required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: RI-BH-9 (480-229745-1), RI-MW-1 (480-229745-3), RI-MW-1-MS (480-229745-3[MS]), RI-MW-1-MSD (480-229745-3[MSD]), RI-MW-2 (480-229745-4), RI-MW-3 (480-229745-5), RI-MW-3-DUP (480-229745-6), RI-MW-4 (480-229745-7), RI-MW-4-DUP (480-229745-8), RI-MW-5 (480-229745-9), RI-MW-5-MS (480-229745-9[MS]) and RI-MW-5-MSD (480-229745-9[MSD]).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-BH-9

Lab Sample ID: 480-229745-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.53	J B vs	6.0	0.37	ug/Kg	1	✱	8260C	Total/NA
2-Methylnaphthalene	39	J	210	33	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]anthracene	110	J	210	29	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	92	J	210	36	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	140	J	210	28	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	69	J	210	36	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	68	J	210	47	ug/Kg	1	✱	8270D	Total/NA
Caprolactam	100	J	210	48	ug/Kg	1	✱	8270D	Total/NA
Chrysene	160	J	210	50	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	240		210	38	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	58	J	210	31	ug/Kg	1	✱	8270D	Total/NA
Naphthalene	35	J	210	35	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	190	J	210	39	ug/Kg	1	✱	8270D	Total/NA
Pyrene	190	J	210	40	ug/Kg	1	✱	8270D	Total/NA
beta-BHC	15	J	21	3.7	ug/Kg	5	✱	8081B	Total/NA
alpha-BHC	5.9	J	21	3.7	ug/Kg	5	✱	8081B	Total/NA
Endrin ketone	11	J	21	5.1	ug/Kg	5	✱	8081B	Total/NA
gamma-BHC (Lindane)	14	J	21	3.8	ug/Kg	5	✱	8081B	Total/NA
Methoxychlor	22		21	4.2	ug/Kg	5	✱	8081B	Total/NA
Aluminum	12200		12.4	10.7	mg/Kg	1	✱	6010D	Total/NA
Antimony	1.5	J	18.7	0.66	mg/Kg	1	✱	6010D	Total/NA
Arsenic	7.4		2.5	1.1	mg/Kg	1	✱	6010D	Total/NA
Barium	216		0.62	0.17	mg/Kg	1	✱	6010D	Total/NA
Beryllium	0.53	^5- B	0.25	0.050	mg/Kg	1	✱	6010D	Total/NA
Cadmium	0.62		0.25	0.087	mg/Kg	1	✱	6010D	Total/NA
Calcium	5670	^5-	62.2	33.6	mg/Kg	1	✱	6010D	Total/NA
Chromium	17.1		0.62	0.45	mg/Kg	1	✱	6010D	Total/NA
Cobalt	6.0		0.62	0.12	mg/Kg	1	✱	6010D	Total/NA
Copper	598		1.2	0.71	mg/Kg	1	✱	6010D	Total/NA
Iron	18600		12.4	10.6	mg/Kg	1	✱	6010D	Total/NA
Lead	687		1.2	0.57	mg/Kg	1	✱	6010D	Total/NA
Magnesium	2720		24.9	10.6	mg/Kg	1	✱	6010D	Total/NA
Manganese	278	B	1.2	0.35	mg/Kg	1	✱	6010D	Total/NA
Nickel	14.3	^5-	6.2	0.31	mg/Kg	1	✱	6010D	Total/NA
Potassium	2160		37.3	30.2	mg/Kg	1	✱	6010D	Total/NA
Sodium	280		174	76.3	mg/Kg	1	✱	6010D	Total/NA
Vanadium	26.7		0.62	0.16	mg/Kg	1	✱	6010D	Total/NA
Zinc	370		2.5	1.3	mg/Kg	1	✱	6010D	Total/NA
Mercury	0.41		0.024	0.0055	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: RI-BH-10

Lab Sample ID: 480-229745-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	7.2	J F1 vs	35	2.6	ug/Kg	1	✱	8260C	Total/NA
Acetone	110	vs	35	6.0	ug/Kg	1	✱	8260C	Total/NA
Cyclohexane	1.2	J vs	7.1	0.99	ug/Kg	1	✱	8260C	Total/NA
Methylcyclohexane	4.9	J vs	7.1	1.1	ug/Kg	1	✱	8260C	Total/NA
Benzo[b]fluoranthene	96	J	710	95	ug/Kg	1	✱	8270D	Total/NA
4,4'-DDT	12	J B	14	3.3	ug/Kg	1	✱	8081B	Total/NA
Methoxychlor	12	J	14	2.8	ug/Kg	1	✱	8081B	Total/NA
Perfluorooctanoic acid (PFOA)	0.073	J	0.20	0.059	ng/g	1	✱	1633	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-BH-10 (Continued)

Lab Sample ID: 480-229745-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	0.17	J	0.20	0.11	ng/g	1	✱	1633	Total/NA
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.14	J	0.20	0.11	ng/g	1	✱	1633	Total/NA
Aluminum	11000		13.6	11.7	mg/Kg	1	✱	6010D	Total/NA
Antimony	0.79	J	20.3	0.72	mg/Kg	1	✱	6010D	Total/NA
Arsenic	19.8		2.7	1.2	mg/Kg	1	✱	6010D	Total/NA
Barium	354		0.68	0.19	mg/Kg	1	✱	6010D	Total/NA
Beryllium	1.5	^5- B	0.27	0.054	mg/Kg	1	✱	6010D	Total/NA
Cadmium	0.25	J	0.27	0.095	mg/Kg	1	✱	6010D	Total/NA
Calcium	5600	^5-	67.8	36.6	mg/Kg	1	✱	6010D	Total/NA
Chromium	24.1		0.68	0.49	mg/Kg	1	✱	6010D	Total/NA
Cobalt	8.8		0.68	0.14	mg/Kg	1	✱	6010D	Total/NA
Copper	27.5		1.4	0.77	mg/Kg	1	✱	6010D	Total/NA
Iron	30500	^2 ^+	13.6	11.5	mg/Kg	1	✱	6010D	Total/NA
Lead	64.3		1.4	0.62	mg/Kg	1	✱	6010D	Total/NA
Magnesium	1800		27.1	11.5	mg/Kg	1	✱	6010D	Total/NA
Manganese	219	^5-	1.4	0.38	mg/Kg	1	✱	6010D	Total/NA
Nickel	22.5	^5-	6.8	0.34	mg/Kg	1	✱	6010D	Total/NA
Potassium	1570		40.7	32.9	mg/Kg	1	✱	6010D	Total/NA
Selenium	3.2	J	5.4	1.1	mg/Kg	1	✱	6010D	Total/NA
Sodium	417		190	83.1	mg/Kg	1	✱	6010D	Total/NA
Vanadium	29.2		0.68	0.18	mg/Kg	1	✱	6010D	Total/NA
Zinc	70.1	^5-	2.7	1.4	mg/Kg	1	✱	6010D	Total/NA
Mercury	0.12		0.030	0.0068	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: RI-MW-1

Lab Sample ID: 480-229745-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.0	J vs	27	4.6	ug/Kg	1	✱	8260C	Total/NA
Carbon disulfide	3.5	J vs	5.5	2.7	ug/Kg	1	✱	8260C	Total/NA
cis-1,2-Dichloroethene	1.2	J vs	5.5	0.70	ug/Kg	1	✱	8260C	Total/NA
Methylcyclohexane	12	vs	5.5	0.84	ug/Kg	1	✱	8260C	Total/NA
Toluene	0.70	J vs	5.5	0.42	ug/Kg	1	✱	8260C	Total/NA
Vinyl chloride	0.77	J vs	5.5	0.67	ug/Kg	1	✱	8260C	Total/NA
Benzo[b]fluoranthene	36	J	190	25	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	45	J	190	34	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	86	J	190	35	ug/Kg	1	✱	8270D	Total/NA
Pyrene	42	J	190	36	ug/Kg	1	✱	8270D	Total/NA
4,4'-DDT	57	J F1 B	74	17	ug/Kg	20	✱	8081B	Total/NA
Endrin ketone	35	J F1	74	18	ug/Kg	20	✱	8081B	Total/NA
Aluminum	13400		11.2	9.6	mg/Kg	1	✱	6010D	Total/NA
Antimony	1.1	J F1	16.7	0.59	mg/Kg	1	✱	6010D	Total/NA
Arsenic	12.2		2.2	0.98	mg/Kg	1	✱	6010D	Total/NA
Barium	134	F1	0.56	0.16	mg/Kg	1	✱	6010D	Total/NA
Beryllium	1.0	^5- B	0.22	0.045	mg/Kg	1	✱	6010D	Total/NA
Cadmium	0.16	J	0.22	0.078	mg/Kg	1	✱	6010D	Total/NA
Calcium	10800	^5- F1 F2	55.8	30.1	mg/Kg	1	✱	6010D	Total/NA
Chromium	17.7		0.56	0.40	mg/Kg	1	✱	6010D	Total/NA
Cobalt	16.4		0.56	0.11	mg/Kg	1	✱	6010D	Total/NA
Copper	40.9		1.1	0.64	mg/Kg	1	✱	6010D	Total/NA
Iron	29800	^2 ^+	11.2	9.5	mg/Kg	1	✱	6010D	Total/NA
Lead	20.6		1.1	0.51	mg/Kg	1	✱	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-1 (Continued)

Lab Sample ID: 480-229745-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Magnesium	6750	F1 F2	22.3	9.5	mg/Kg	1	✱		6010D	Total/NA
Manganese	308	B F1	1.1	0.31	mg/Kg	1	✱		6010D	Total/NA
Nickel	38.8	^5-	5.6	0.28	mg/Kg	1	✱		6010D	Total/NA
Potassium	2970	F1 F2	33.5	27.0	mg/Kg	1	✱		6010D	Total/NA
Selenium	1.2	J	4.5	0.89	mg/Kg	1	✱		6010D	Total/NA
Sodium	176	F1 F2	156	68.4	mg/Kg	1	✱		6010D	Total/NA
Vanadium	19.7		0.56	0.15	mg/Kg	1	✱		6010D	Total/NA
Zinc	42.3	^5-	2.2	1.1	mg/Kg	1	✱		6010D	Total/NA
Mercury	0.023	F1 F2	0.023	0.0052	mg/Kg	1	✱		7471B	Total/NA

Client Sample ID: RI-MW-2

Lab Sample ID: 480-229745-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	15	J vs	29	4.8	ug/Kg	1	✱		8260C	Total/NA
Chloroform	0.52	J B vs	5.7	0.35	ug/Kg	1	✱		8260C	Total/NA
2-Methylnaphthalene	35	J	200	31	ug/Kg	1	✱		8270D	Total/NA
Phenanthrene	64	J	200	37	ug/Kg	1	✱		8270D	Total/NA
4,4'-DDD	1.7	J	3.9	0.75	ug/Kg	1	✱		8081B	Total/NA
4,4'-DDT	3.2	J B	3.9	0.90	ug/Kg	1	✱		8081B	Total/NA
alpha-BHC	1.2	J	3.9	0.70	ug/Kg	1	✱		8081B	Total/NA
Endrin ketone	2.1	J	3.9	0.95	ug/Kg	1	✱		8081B	Total/NA
gamma-BHC (Lindane)	1.0	J	3.9	0.71	ug/Kg	1	✱		8081B	Total/NA
Aluminum	19100		11.2	9.6	mg/Kg	1	✱		6010D	Total/NA
Arsenic	5.9		2.2	0.98	mg/Kg	1	✱		6010D	Total/NA
Barium	105		0.56	0.16	mg/Kg	1	✱		6010D	Total/NA
Beryllium	0.82	^5- B	0.22	0.045	mg/Kg	1	✱		6010D	Total/NA
Cadmium	0.25		0.22	0.078	mg/Kg	1	✱		6010D	Total/NA
Calcium	1830	^5-	55.9	30.2	mg/Kg	1	✱		6010D	Total/NA
Chromium	19.1		0.56	0.40	mg/Kg	1	✱		6010D	Total/NA
Cobalt	11.2		0.56	0.11	mg/Kg	1	✱		6010D	Total/NA
Copper	34.7		1.1	0.64	mg/Kg	1	✱		6010D	Total/NA
Iron	21400	^2 ^+	11.2	9.5	mg/Kg	1	✱		6010D	Total/NA
Lead	12.1		1.1	0.51	mg/Kg	1	✱		6010D	Total/NA
Magnesium	3940		22.4	9.5	mg/Kg	1	✱		6010D	Total/NA
Manganese	164	^5-	1.1	0.31	mg/Kg	1	✱		6010D	Total/NA
Nickel	46.4	^5-	5.6	0.28	mg/Kg	1	✱		6010D	Total/NA
Potassium	2620		33.5	27.1	mg/Kg	1	✱		6010D	Total/NA
Selenium	1.0	J	4.5	0.89	mg/Kg	1	✱		6010D	Total/NA
Sodium	120	J	157	68.5	mg/Kg	1	✱		6010D	Total/NA
Vanadium	24.2		0.56	0.15	mg/Kg	1	✱		6010D	Total/NA
Zinc	77.4	^5-	2.2	1.1	mg/Kg	1	✱		6010D	Total/NA
Mercury	0.031		0.025	0.0056	mg/Kg	1	✱		7471B	Total/NA

Client Sample ID: RI-MW-3

Lab Sample ID: 480-229745-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	6.0	J vs	27	4.5	ug/Kg	1	✱		8260C	Total/NA
Chloroform	0.51	J B vs	5.3	0.33	ug/Kg	1	✱		8260C	Total/NA
Phenanthrene	36	J	180	34	ug/Kg	1	✱		8270D	Total/NA
beta-BHC	0.97	J	3.6	0.64	ug/Kg	1	✱		8081B	Total/NA
alpha-BHC	0.81	J	3.6	0.64	ug/Kg	1	✱		8081B	Total/NA
Endrin ketone	1.1	J	3.6	0.88	ug/Kg	1	✱		8081B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-3 (Continued)

Lab Sample ID: 480-229745-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	12000		11.0	9.5	mg/Kg	1	✱	6010D	Total/NA
Antimony	0.85	J	16.5	0.58	mg/Kg	1	✱	6010D	Total/NA
Arsenic	12.2		2.2	0.97	mg/Kg	1	✱	6010D	Total/NA
Barium	56.4		0.55	0.15	mg/Kg	1	✱	6010D	Total/NA
Beryllium	0.74	^5- B	0.22	0.044	mg/Kg	1	✱	6010D	Total/NA
Cadmium	0.35		0.22	0.077	mg/Kg	1	✱	6010D	Total/NA
Calcium	3880	^5-	55.0	29.7	mg/Kg	1	✱	6010D	Total/NA
Chromium	17.1		0.55	0.40	mg/Kg	1	✱	6010D	Total/NA
Cobalt	16.2		0.55	0.11	mg/Kg	1	✱	6010D	Total/NA
Copper	46.9		1.1	0.63	mg/Kg	1	✱	6010D	Total/NA
Iron	31600	^2 ^+	11.0	9.3	mg/Kg	1	✱	6010D	Total/NA
Lead	23.1		1.1	0.51	mg/Kg	1	✱	6010D	Total/NA
Magnesium	5430		22.0	9.3	mg/Kg	1	✱	6010D	Total/NA
Manganese	247	B	1.1	0.31	mg/Kg	1	✱	6010D	Total/NA
Nickel	42.3	^5-	5.5	0.28	mg/Kg	1	✱	6010D	Total/NA
Potassium	2650		33.0	26.7	mg/Kg	1	✱	6010D	Total/NA
Selenium	1.2	J	4.4	0.88	mg/Kg	1	✱	6010D	Total/NA
Sodium	118	J	154	67.5	mg/Kg	1	✱	6010D	Total/NA
Thallium	0.86	J	6.6	0.84	mg/Kg	1	✱	6010D	Total/NA
Vanadium	19.7		0.55	0.14	mg/Kg	1	✱	6010D	Total/NA
Zinc	69.3	^5-	2.2	1.1	mg/Kg	1	✱	6010D	Total/NA
Mercury	0.016	J	0.021	0.0048	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: RI-MW-3-DUP

Lab Sample ID: 480-229745-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	10	J vs	26	4.5	ug/Kg	1	✱	8260C	Total/NA
Chloroform	0.49	J B vs	5.3	0.33	ug/Kg	1	✱	8260C	Total/NA
Cyclohexane	0.75	J vs	5.3	0.74	ug/Kg	1	✱	8260C	Total/NA
Methylcyclohexane	2.5	J vs	5.3	0.80	ug/Kg	1	✱	8260C	Total/NA
Phenanthrene	35	J	180	34	ug/Kg	1	✱	8270D	Total/NA
alpha-BHC	0.81	J	3.5	0.64	ug/Kg	1	✱	8081B	Total/NA
Endrin ketone	1.3	J	3.5	0.87	ug/Kg	1	✱	8081B	Total/NA
Methoxychlor	3.7		3.5	0.72	ug/Kg	1	✱	8081B	Total/NA
Perfluorooctanoic acid (PFOA)	0.083	J	0.19	0.058	ng/g	1	✱	1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.13	J	0.19	0.11	ng/g	1	✱	1633	Total/NA
Aluminum	13400		10.6	9.1	mg/Kg	1	✱	6010D	Total/NA
Antimony	1.1	J	15.9	0.56	mg/Kg	1	✱	6010D	Total/NA
Arsenic	12.6		2.1	0.93	mg/Kg	1	✱	6010D	Total/NA
Barium	66.6		0.53	0.15	mg/Kg	1	✱	6010D	Total/NA
Beryllium	0.82	^5- B	0.21	0.042	mg/Kg	1	✱	6010D	Total/NA
Cadmium	0.33		0.21	0.074	mg/Kg	1	✱	6010D	Total/NA
Calcium	3240	^5-	53.1	28.6	mg/Kg	1	✱	6010D	Total/NA
Chromium	18.4		0.53	0.38	mg/Kg	1	✱	6010D	Total/NA
Cobalt	17.4		0.53	0.11	mg/Kg	1	✱	6010D	Total/NA
Copper	44.8		1.1	0.60	mg/Kg	1	✱	6010D	Total/NA
Iron	31600	^2 ^+	10.6	9.0	mg/Kg	1	✱	6010D	Total/NA
Lead	22.2		1.1	0.49	mg/Kg	1	✱	6010D	Total/NA
Magnesium	5630		21.2	9.0	mg/Kg	1	✱	6010D	Total/NA
Manganese	255	B	1.1	0.30	mg/Kg	1	✱	6010D	Total/NA
Nickel	43.8	^5-	5.3	0.27	mg/Kg	1	✱	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-3-DUP (Continued)

Lab Sample ID: 480-229745-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	3120		31.8	25.7	mg/Kg	1	✱	6010D	Total/NA
Selenium	1.1	J	4.2	0.85	mg/Kg	1	✱	6010D	Total/NA
Sodium	128	J	149	65.1	mg/Kg	1	✱	6010D	Total/NA
Thallium	1.0	J	6.4	0.81	mg/Kg	1	✱	6010D	Total/NA
Vanadium	22.8		0.53	0.14	mg/Kg	1	✱	6010D	Total/NA
Zinc	67.7	^5-	2.1	1.1	mg/Kg	1	✱	6010D	Total/NA
Mercury	0.014	J	0.022	0.0051	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: RI-MW-4

Lab Sample ID: 480-229745-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	18	J vs	27	4.5	ug/Kg	1	✱	8260C	Total/NA
Chloroform	0.50	J B vs	5.4	0.33	ug/Kg	1	✱	8260C	Total/NA
Phenanthrene	67	J	190	35	ug/Kg	1	✱	8270D	Total/NA
4,4'-DDT	2.8	J B	3.7	0.86	ug/Kg	1	✱	8081B	Total/NA
Methoxychlor	3.1	J	3.7	0.75	ug/Kg	1	✱	8081B	Total/NA
Aluminum	10800		11.3	9.7	mg/Kg	1	✱	6010D	Total/NA
Arsenic	9.6		2.3	0.99	mg/Kg	1	✱	6010D	Total/NA
Barium	48.6		0.56	0.16	mg/Kg	1	✱	6010D	Total/NA
Beryllium	0.57	^5- B	0.23	0.045	mg/Kg	1	✱	6010D	Total/NA
Cadmium	0.31		0.23	0.079	mg/Kg	1	✱	6010D	Total/NA
Calcium	31800		56.5	30.5	mg/Kg	1	✱	6010D	Total/NA
Chromium	15.1		0.56	0.41	mg/Kg	1	✱	6010D	Total/NA
Cobalt	11.9		0.56	0.11	mg/Kg	1	✱	6010D	Total/NA
Copper	39.2		1.1	0.64	mg/Kg	1	✱	6010D	Total/NA
Iron	25000	^2 ^+	11.3	9.6	mg/Kg	1	✱	6010D	Total/NA
Lead	18.0		1.1	0.52	mg/Kg	1	✱	6010D	Total/NA
Magnesium	7980		22.6	9.6	mg/Kg	1	✱	6010D	Total/NA
Manganese	356	B	1.1	0.32	mg/Kg	1	✱	6010D	Total/NA
Nickel	32.2	^5-	5.6	0.28	mg/Kg	1	✱	6010D	Total/NA
Potassium	2520		33.9	27.4	mg/Kg	1	✱	6010D	Total/NA
Sodium	168		158	69.3	mg/Kg	1	✱	6010D	Total/NA
Vanadium	19.3		0.56	0.15	mg/Kg	1	✱	6010D	Total/NA
Zinc	74.6	^5-	2.3	1.2	mg/Kg	1	✱	6010D	Total/NA
Mercury	0.020	J	0.021	0.0049	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: RI-MW-4-DUP

Lab Sample ID: 480-229745-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.0	J vs	27	4.6	ug/Kg	1	✱	8260C	Total/NA
Chloroform	0.53	J B vs	5.5	0.34	ug/Kg	1	✱	8260C	Total/NA
Methylcyclohexane	1.4	J vs	5.5	0.83	ug/Kg	1	✱	8260C	Total/NA
Phenanthrene	100	J	190	35	ug/Kg	1	✱	8270D	Total/NA
Endrin ketone	12	J	19	4.6	ug/Kg	5	✱	8081B	Total/NA
Aluminum	10500		11.5	9.9	mg/Kg	1	✱	6010D	Total/NA
Arsenic	7.0		2.3	1.0	mg/Kg	1	✱	6010D	Total/NA
Barium	130		0.57	0.16	mg/Kg	1	✱	6010D	Total/NA
Beryllium	0.57	^5- B	0.23	0.046	mg/Kg	1	✱	6010D	Total/NA
Cadmium	0.20	J	0.23	0.080	mg/Kg	1	✱	6010D	Total/NA
Calcium	43200		57.4	31.0	mg/Kg	1	✱	6010D	Total/NA
Chromium	14.4		0.57	0.41	mg/Kg	1	✱	6010D	Total/NA
Cobalt	9.5		0.57	0.11	mg/Kg	1	✱	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-4-DUP (Continued)

Lab Sample ID: 480-229745-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Copper	29.7		1.1	0.65	mg/Kg	1		✱	6010D	Total/NA
Iron	21700	^2 ^+	11.5	9.7	mg/Kg	1		✱	6010D	Total/NA
Lead	14.0		1.1	0.53	mg/Kg	1		✱	6010D	Total/NA
Magnesium	8560		23.0	9.7	mg/Kg	1		✱	6010D	Total/NA
Manganese	406	B	1.1	0.32	mg/Kg	1		✱	6010D	Total/NA
Nickel	25.1	^5-	5.7	0.29	mg/Kg	1		✱	6010D	Total/NA
Potassium	2550		34.4	27.8	mg/Kg	1		✱	6010D	Total/NA
Sodium	162		161	70.4	mg/Kg	1		✱	6010D	Total/NA
Vanadium	19.0		0.57	0.15	mg/Kg	1		✱	6010D	Total/NA
Zinc	48.5	^5-	2.3	1.2	mg/Kg	1		✱	6010D	Total/NA
Mercury	0.020	J	0.023	0.0054	mg/Kg	1		✱	7471B	Total/NA

Client Sample ID: RI-MW-5

Lab Sample ID: 480-229745-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	11	J vs	27	4.6	ug/Kg	1		✱	8260C	Total/NA
Chloroform	0.47	J B vs	5.5	0.34	ug/Kg	1		✱	8260C	Total/NA
Cyclohexane	0.79	J F1 vs	5.5	0.77	ug/Kg	1		✱	8260C	Total/NA
Methylcyclohexane	1.3	J F1 vs	5.5	0.83	ug/Kg	1		✱	8260C	Total/NA
Methylene Chloride	3.4	J vs	5.5	2.5	ug/Kg	1		✱	8260C	Total/NA
Toluene	0.54	J F1 vs	5.5	0.41	ug/Kg	1		✱	8260C	Total/NA
Methoxychlor	3.4	J F2 F1	3.7	0.75	ug/Kg	1		✱	8081B	Total/NA
Aluminum	9890		11.4	9.8	mg/Kg	1		✱	6010D	Total/NA
Arsenic	8.6		2.3	1.0	mg/Kg	1		✱	6010D	Total/NA
Barium	249	F1	0.57	0.16	mg/Kg	1		✱	6010D	Total/NA
Beryllium	0.50	^5- B	0.23	0.046	mg/Kg	1		✱	6010D	Total/NA
Cadmium	0.36		0.23	0.080	mg/Kg	1		✱	6010D	Total/NA
Calcium	26400		57.0	30.7	mg/Kg	1		✱	6010D	Total/NA
Chromium	14.1		0.57	0.41	mg/Kg	1		✱	6010D	Total/NA
Cobalt	10.7		0.57	0.11	mg/Kg	1		✱	6010D	Total/NA
Copper	33.4		1.1	0.65	mg/Kg	1		✱	6010D	Total/NA
Iron	23300	^2 ^+	11.4	9.7	mg/Kg	1		✱	6010D	Total/NA
Lead	16.9		1.1	0.52	mg/Kg	1		✱	6010D	Total/NA
Magnesium	7270		22.8	9.7	mg/Kg	1		✱	6010D	Total/NA
Manganese	333	B	1.1	0.32	mg/Kg	1		✱	6010D	Total/NA
Nickel	28.4	^5-	5.7	0.28	mg/Kg	1		✱	6010D	Total/NA
Potassium	2120	F1	34.2	27.6	mg/Kg	1		✱	6010D	Total/NA
Sodium	121	J	159	69.8	mg/Kg	1		✱	6010D	Total/NA
Vanadium	15.9		0.57	0.15	mg/Kg	1		✱	6010D	Total/NA
Zinc	158	^5- F1 F2	2.3	1.2	mg/Kg	1		✱	6010D	Total/NA
Mercury	0.015	J	0.023	0.0053	mg/Kg	1		✱	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-BH-9

Lab Sample ID: 480-229745-1

Date Collected: 05/28/25 08:00

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 80.0

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	6.0	0.44	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
1,1,2,2-Tetrachloroethane	ND	vs	6.0	0.97	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.0	1.4	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
1,1,2-Trichloroethane	ND	vs	6.0	0.78	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
1,1-Dichloroethane	ND	vs	6.0	0.73	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
1,1-Dichloroethene	ND	vs	6.0	0.74	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
1,2,4-Trichlorobenzene	ND	vs	6.0	0.37	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
1,2-Dibromo-3-Chloropropane	ND	vs	6.0	3.0	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
1,2-Dichlorobenzene	ND	vs	6.0	0.47	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
1,2-Dichloroethane	ND	vs	6.0	0.30	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
1,2-Dichloropropane	ND	vs	6.0	3.0	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
1,3-Dichlorobenzene	ND	vs	6.0	0.31	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
1,4-Dichlorobenzene	ND	vs	6.0	0.84	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
2-Butanone (MEK)	ND	vs	30	2.2	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
2-Hexanone	ND	vs	30	3.0	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
4-Methyl-2-pentanone (MIBK)	ND	vs	30	2.0	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
Acetone	ND	vs	30	5.1	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
Benzene	ND	vs	6.0	0.29	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
Bromoform	ND	vs	6.0	3.0	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
Bromomethane	ND	vs	6.0	0.54	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
Carbon disulfide	ND	vs	6.0	3.0	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
Carbon tetrachloride	ND	vs	6.0	0.58	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
Chlorobenzene	ND	vs	6.0	0.79	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
Dibromochloromethane	ND	vs	6.0	0.77	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
Chloroethane	ND	vs	6.0	1.4	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
Chloroform	0.53	J B vs	6.0	0.37	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
Chloromethane	ND	vs	6.0	0.36	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
cis-1,2-Dichloroethene	ND	vs	6.0	0.77	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
Cyclohexane	ND	vs	6.0	0.84	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
Bromodichloromethane	ND	vs	6.0	0.81	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
Dichlorodifluoromethane	ND	vs	6.0	0.50	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
Ethylbenzene	ND	vs	6.0	0.41	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
1,2-Dibromoethane	ND	vs	6.0	0.77	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
Isopropylbenzene	ND	vs	6.0	0.91	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
Methyl acetate	ND	vs	30	3.6	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
Methyl tert-butyl ether	ND	vs	6.0	0.59	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
Methylcyclohexane	ND	vs	6.0	0.91	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
Methylene Chloride	ND	vs	6.0	2.8	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
Tetrachloroethene	ND	vs	6.0	0.81	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
Toluene	ND	vs	6.0	0.45	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
trans-1,2-Dichloroethene	ND	vs	6.0	0.62	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
trans-1,3-Dichloropropene	ND	vs	6.0	2.6	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
Trichloroethene	ND	vs	6.0	1.3	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
Trichlorofluoromethane	ND	vs	6.0	0.57	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
Vinyl chloride	ND	vs	6.0	0.73	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
Xylenes, Total	ND	vs	12	1.0	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
cis-1,3-Dichloropropene	ND	vs	6.0	0.87	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1
Styrene	ND	vs	6.0	0.30	ug/Kg	✱	05/29/25 18:02	05/29/25 22:16	1

Eurofins Buffalo

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-BH-9

Lab Sample ID: 480-229745-1

Date Collected: 05/28/25 08:00

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 80.0

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼		N/A	05/29/25 18:02	05/29/25 22:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		64 - 126				05/29/25 18:02	05/29/25 22:16	1
4-Bromofluorobenzene (Surr)	108		72 - 126				05/29/25 18:02	05/29/25 22:16	1
Toluene-d8 (Surr)	91		71 - 125				05/29/25 18:02	05/29/25 22:16	1
Dibromofluoromethane (Surr)	108		60 - 140				05/29/25 18:02	05/29/25 22:16	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		120	46	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
2,4,5-Trichlorophenol	ND		210	42	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
2,4,6-Trichlorophenol	ND		210	32	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
2,4-Dichlorophenol	ND		210	41	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
2,4-Dimethylphenol	ND		210	44	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
2,4-Dinitrophenol	ND		2100	40	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
2,4-Dinitrotoluene	ND		210	28	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
2,6-Dinitrotoluene	ND		210	30	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
2-Chloronaphthalene	ND		210	39	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
2-Chlorophenol	ND		210	33	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
2-Methylnaphthalene	39	J	210	33	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
2-Methylphenol	ND		210	34	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
2-Nitroaniline	ND		410	35	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
2-Nitrophenol	ND		210	24	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
3,3'-Dichlorobenzidine	ND		410	61	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
3-Nitroaniline	ND		410	30	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
4,6-Dinitro-2-methylphenol	ND		410	46	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
4-Bromophenyl phenyl ether	ND		210	35	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
4-Chloro-3-methylphenol	ND		210	43	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
4-Chloroaniline	ND		210	30	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
4-Chlorophenyl phenyl ether	ND		210	44	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
4-Methylphenol	ND		410	37	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
4-Nitroaniline	ND		410	31	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
4-Nitrophenol	ND		410	57	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
Acenaphthene	ND		210	39	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
Acenaphthylene	ND		210	40	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
Acetophenone	ND		210	37	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
Anthracene	ND		210	39	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
Atrazine	ND		210	71	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
Benzaldehyde	ND		210	160	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
Benzo[a]anthracene	110	J	210	29	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
Benzo[a]pyrene	92	J	210	36	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
Benzo[b]fluoranthene	140	J	210	28	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
Benzo[g,h,i]perylene	69	J	210	36	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
Benzo[k]fluoranthene	68	J	210	47	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
Biphenyl	ND		210	39	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
bis (2-chloroisopropyl) ether	ND		210	43	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
Bis(2-chloroethoxy)methane	ND		210	40	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
Bis(2-chloroethyl)ether	ND		210	39	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
Bis(2-ethylhexyl) phthalate	ND		210	46	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-BH-9

Lab Sample ID: 480-229745-1

Date Collected: 05/28/25 08:00

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 80.0

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	ND		210	39	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
Caprolactam	100	J	210	48	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
Carbazole	ND		210	41	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
Chrysene	160	J	210	50	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
Dibenz(a,h)anthracene	ND		210	42	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
Dibenzofuran	ND		210	37	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
Diethyl phthalate	ND		210	37	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
Dimethyl phthalate	ND		210	40	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
Di-n-butyl phthalate	ND		210	47	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
Di-n-octyl phthalate	ND		210	40	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
Fluoranthene	240		210	38	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
Fluorene	ND		210	38	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
Hexachlorobenzene	ND		210	40	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
Hexachlorobutadiene	ND		210	31	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
Hexachlorocyclopentadiene	ND		410	92	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
Hexachloroethane	ND		210	38	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
Indeno[1,2,3-cd]pyrene	58	J	210	31	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
Isophorone	ND		210	43	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
Naphthalene	35	J	210	35	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
Nitrobenzene	ND		210	35	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
N-Nitrosodi-n-propylamine	ND		210	47	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
N-Nitrosodiphenylamine	ND		210	35	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
Pentachlorophenol	ND		410	67	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
Phenanthrene	190	J	210	39	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
Phenol	ND		210	38	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1
Pyrene	190	J	210	40	ug/Kg	☼	05/29/25 13:56	05/30/25 19:19	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	6300	T J	ug/Kg	☼	1.93	N/A	05/29/25 13:56	05/30/25 19:19	1
Unknown	6000	T J	ug/Kg	☼	3.35	N/A	05/29/25 13:56	05/30/25 19:19	1
Undecane	340	T J N	ug/Kg	☼	6.41	1120-21-4	05/29/25 13:56	05/30/25 19:19	1
Tridecane	360	T J N	ug/Kg	☼	7.95	629-50-5	05/29/25 13:56	05/30/25 19:19	1
Heptadecane	440	T J N	ug/Kg	☼	10.35	629-78-7	05/29/25 13:56	05/30/25 19:19	1
Tridecane, 5-propyl-	410	T J N	ug/Kg	☼	10.37	55045-11-9	05/29/25 13:56	05/30/25 19:19	1
Octadecane	380	T J N	ug/Kg	☼	10.82	593-45-3	05/29/25 13:56	05/30/25 19:19	1
Nonadecane	380	T J N	ug/Kg	☼	11.23	629-92-5	05/29/25 13:56	05/30/25 19:19	1
Eicosane	340	T J N	ug/Kg	☼	11.61	112-95-8	05/29/25 13:56	05/30/25 19:19	1
1-Hexacosanol	870	T J N	ug/Kg	☼	13.16	506-52-5	05/29/25 13:56	05/30/25 19:19	1
1-Docosene	1700	T J N	ug/Kg	☼	13.70	1599-67-3	05/29/25 13:56	05/30/25 19:19	1
13-Methyl-Z-14-nonacosene	910	T J N	ug/Kg	☼	14.21	1000131-19-0	05/29/25 13:56	05/30/25 19:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	71		10 - 140	05/29/25 13:56	05/30/25 19:19	1
2-Fluorobiphenyl (Surr)	72		29 - 120	05/29/25 13:56	05/30/25 19:19	1
2-Fluorophenol (Surr)	59		18 - 120	05/29/25 13:56	05/30/25 19:19	1
Nitrobenzene-d5 (Surr)	68		22 - 120	05/29/25 13:56	05/30/25 19:19	1
Phenol-d5 (Surr)	61		23 - 120	05/29/25 13:56	05/30/25 19:19	1
p-Terphenyl-d14 (Surr)	67		28 - 124	05/29/25 13:56	05/30/25 19:19	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-BH-9

Lab Sample ID: 480-229745-1

Date Collected: 05/28/25 08:00

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 80.0

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		21	4.0	ug/Kg	✱	05/30/25 13:55	06/03/25 09:39	5
4,4'-DDE	ND		21	4.4	ug/Kg	✱	05/30/25 13:55	06/03/25 09:39	5
4,4'-DDT	ND		21	4.9	ug/Kg	✱	05/30/25 13:55	06/03/25 09:39	5
beta-BHC	15	J	21	3.7	ug/Kg	✱	05/30/25 13:55	06/03/25 09:39	5
cis-Chlordane	ND		21	10	ug/Kg	✱	05/30/25 13:55	06/03/25 09:39	5
alpha-BHC	5.9	J	21	3.7	ug/Kg	✱	05/30/25 13:55	06/03/25 09:39	5
Aldrin	ND		21	5.1	ug/Kg	✱	05/30/25 13:55	06/03/25 09:39	5
delta-BHC	ND		21	3.9	ug/Kg	✱	05/30/25 13:55	06/03/25 09:39	5
Dieldrin	ND		21	5.0	ug/Kg	✱	05/30/25 13:55	06/03/25 09:39	5
Endosulfan I	ND		21	4.0	ug/Kg	✱	05/30/25 13:55	06/03/25 09:39	5
Endosulfan II	ND		21	3.7	ug/Kg	✱	05/30/25 13:55	06/03/25 09:39	5
Endosulfan sulfate	ND		21	3.9	ug/Kg	✱	05/30/25 13:55	06/03/25 09:39	5
Endrin	ND		21	4.1	ug/Kg	✱	05/30/25 13:55	06/03/25 09:39	5
Endrin aldehyde	ND		21	5.3	ug/Kg	✱	05/30/25 13:55	06/03/25 09:39	5
Endrin ketone	11	J	21	5.1	ug/Kg	✱	05/30/25 13:55	06/03/25 09:39	5
gamma-BHC (Lindane)	14	J	21	3.8	ug/Kg	✱	05/30/25 13:55	06/03/25 09:39	5
trans-Chlordane	ND		21	6.6	ug/Kg	✱	05/30/25 13:55	06/03/25 09:39	5
Heptachlor	ND		21	4.5	ug/Kg	✱	05/30/25 13:55	06/03/25 09:39	5
Heptachlor epoxide	ND		21	5.4	ug/Kg	✱	05/30/25 13:55	06/03/25 09:39	5
Methoxychlor	22		21	4.2	ug/Kg	✱	05/30/25 13:55	06/03/25 09:39	5
Toxaphene	ND		210	120	ug/Kg	✱	05/30/25 13:55	06/03/25 09:39	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	0	S1-	45 - 120	05/30/25 13:55	06/03/25 09:39	5
DCB Decachlorobiphenyl	0	S1-	45 - 120	05/30/25 13:55	06/03/25 09:39	5
Tetrachloro-m-xylene	0	S1-	30 - 124	05/30/25 13:55	06/03/25 09:39	5
Tetrachloro-m-xylene	0	S1-	30 - 124	05/30/25 13:55	06/03/25 09:39	5

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.30	0.059	mg/Kg	✱	05/30/25 13:30	06/02/25 14:19	1
PCB-1221	ND		0.30	0.059	mg/Kg	✱	05/30/25 13:30	06/02/25 14:19	1
PCB-1232	ND		0.30	0.059	mg/Kg	✱	05/30/25 13:30	06/02/25 14:19	1
PCB-1242	ND		0.30	0.059	mg/Kg	✱	05/30/25 13:30	06/02/25 14:19	1
PCB-1248	ND		0.30	0.059	mg/Kg	✱	05/30/25 13:30	06/02/25 14:19	1
PCB-1254	ND		0.30	0.14	mg/Kg	✱	05/30/25 13:30	06/02/25 14:19	1
PCB-1260	ND		0.30	0.14	mg/Kg	✱	05/30/25 13:30	06/02/25 14:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	126		60 - 154	05/30/25 13:30	06/02/25 14:19	1
Tetrachloro-m-xylene	111		60 - 154	05/30/25 13:30	06/02/25 14:19	1
DCB Decachlorobiphenyl	122		65 - 174	05/30/25 13:30	06/02/25 14:19	1
DCB Decachlorobiphenyl	120		65 - 174	05/30/25 13:30	06/02/25 14:19	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.40	0.13	ng/g	✱	06/02/25 09:13	06/03/25 13:39	1
Perfluoropentanoic acid (PFPeA)	ND		0.20	0.049	ng/g	✱	06/02/25 09:13	06/03/25 13:39	1
Perfluorohexanoic acid (PFHxA)	ND		0.20	0.059	ng/g	✱	06/02/25 09:13	06/03/25 13:39	1
Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.069	ng/g	✱	06/02/25 09:13	06/03/25 13:39	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-BH-9

Lab Sample ID: 480-229745-1

Date Collected: 05/28/25 08:00

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 80.0

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	ND		0.20	0.059	ng/g	✱	06/02/25 09:13	06/03/25 13:39	1
Perfluorononanoic acid (PFNA)	ND		0.20	0.059	ng/g	✱	06/02/25 09:13	06/03/25 13:39	1
Perfluorodecanoic acid (PFDA)	ND		0.20	0.049	ng/g	✱	06/02/25 09:13	06/03/25 13:39	1
Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.049	ng/g	✱	06/02/25 09:13	06/03/25 13:39	1
Perfluorododecanoic acid (PFDoA)	ND		0.20	0.049	ng/g	✱	06/02/25 09:13	06/03/25 13:39	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.20	0.069	ng/g	✱	06/02/25 09:13	06/03/25 13:39	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.20	0.069	ng/g	✱	06/02/25 09:13	06/03/25 13:39	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.069	ng/g	✱	06/02/25 09:13	06/03/25 13:39	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.20	0.059	ng/g	✱	06/02/25 09:13	06/03/25 13:39	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.049	ng/g	✱	06/02/25 09:13	06/03/25 13:39	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.069	ng/g	✱	06/02/25 09:13	06/03/25 13:39	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.20	0.11	ng/g	✱	06/02/25 09:13	06/03/25 13:39	1
Perfluorononanesulfonic acid (PFNS)	ND		0.20	0.069	ng/g	✱	06/02/25 09:13	06/03/25 13:39	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.049	ng/g	✱	06/02/25 09:13	06/03/25 13:39	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.059	ng/g	✱	06/02/25 09:13	06/03/25 13:39	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.40	0.099	ng/g	✱	06/02/25 09:13	06/03/25 13:39	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.40	0.13	ng/g	✱	06/02/25 09:13	06/03/25 13:39	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.40	0.13	ng/g	✱	06/02/25 09:13	06/03/25 13:39	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.089	ng/g	✱	06/02/25 09:13	06/03/25 13:39	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.20	0.089	ng/g	✱	06/02/25 09:13	06/03/25 13:39	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.20	0.099	ng/g	✱	06/02/25 09:13	06/03/25 13:39	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.20	0.079	ng/g	✱	06/02/25 09:13	06/03/25 13:39	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.20	0.11	ng/g	✱	06/02/25 09:13	06/03/25 13:39	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		0.99	0.30	ng/g	✱	06/02/25 09:13	06/03/25 13:39	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		0.99	0.30	ng/g	✱	06/02/25 09:13	06/03/25 13:39	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.20	0.11	ng/g	✱	06/02/25 09:13	06/03/25 13:39	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.20	0.059	ng/g	✱	06/02/25 09:13	06/03/25 13:39	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.20	0.069	ng/g	✱	06/02/25 09:13	06/03/25 13:39	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.20	0.049	ng/g	✱	06/02/25 09:13	06/03/25 13:39	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.20	0.069	ng/g	✱	06/02/25 09:13	06/03/25 13:39	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.20	0.089	ng/g	✱	06/02/25 09:13	06/03/25 13:39	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.20	0.079	ng/g	✱	06/02/25 09:13	06/03/25 13:39	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.20	0.049	ng/g	✱	06/02/25 09:13	06/03/25 13:39	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.40	0.20	ng/g	✱	06/02/25 09:13	06/03/25 13:39	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-BH-9

Lab Sample ID: 480-229745-1

Date Collected: 05/28/25 08:00

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 80.0

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		0.99	0.49	ng/g	☆	06/02/25 09:13	06/03/25 13:39	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		0.99	0.40	ng/g	☆	06/02/25 09:13	06/03/25 13:39	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4-PFBA	64.6		8 - 130				06/02/25 09:13	06/03/25 13:39	1
13C5-PFPeA	70.5		35 - 130				06/02/25 09:13	06/03/25 13:39	1
13C5-PFHxA	66.6		40 - 130				06/02/25 09:13	06/03/25 13:39	1
13C4-PFHpA	65.7		40 - 130				06/02/25 09:13	06/03/25 13:39	1
13C8-PFOA	68.1		40 - 130				06/02/25 09:13	06/03/25 13:39	1
13C9-PFNA	66.7		40 - 130				06/02/25 09:13	06/03/25 13:39	1
13C6-PFDA	64.5		40 - 130				06/02/25 09:13	06/03/25 13:39	1
13C7-PFUnA	63.2		40 - 130				06/02/25 09:13	06/03/25 13:39	1
13C2-PFTeDA	79.3		20 - 130				06/02/25 09:13	06/03/25 13:39	1
13C3-PFBS	55.9		40 - 135				06/02/25 09:13	06/03/25 13:39	1
13C3-PFHxS	60.1		40 - 130				06/02/25 09:13	06/03/25 13:39	1
13C8-PFOS	57.8		40 - 130				06/02/25 09:13	06/03/25 13:39	1
13C8-PFOSA	73.2		40 - 130				06/02/25 09:13	06/03/25 13:39	1
d3-NMeFOSAA	76.0		40 - 135				06/02/25 09:13	06/03/25 13:39	1
d5-NEtFOSAA	73.6		40 - 150				06/02/25 09:13	06/03/25 13:39	1
13C2 4:2 FTS	59.6		40 - 165				06/02/25 09:13	06/03/25 13:39	1
13C2 6:2 FTS	86.3		40 - 215				06/02/25 09:13	06/03/25 13:39	1
13C2 8:2 FTS	61.1		40 - 275				06/02/25 09:13	06/03/25 13:39	1
13C3-HFPO-DA	70.3		40 - 130				06/02/25 09:13	06/03/25 13:39	1
D7-NMeFOSE	73.6		20 - 130				06/02/25 09:13	06/03/25 13:39	1
D9-NEtFOSE	67.1		15 - 130				06/02/25 09:13	06/03/25 13:39	1
d5-NEtPFOSA	66.2		10 - 130				06/02/25 09:13	06/03/25 13:39	1
d3-NMePFOSA	65.4		10 - 130				06/02/25 09:13	06/03/25 13:39	1
13C2 PFDaA	59.7		40 - 130				06/02/25 09:13	06/03/25 13:39	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12200		12.4	10.7	mg/Kg	☆	05/29/25 15:23	05/30/25 21:24	1
Antimony	1.5	J	18.7	0.66	mg/Kg	☆	05/29/25 15:23	05/30/25 21:24	1
Arsenic	7.4		2.5	1.1	mg/Kg	☆	05/29/25 15:23	05/30/25 21:24	1
Barium	216		0.62	0.17	mg/Kg	☆	05/29/25 15:23	05/30/25 21:24	1
Beryllium	0.53	^5- B	0.25	0.050	mg/Kg	☆	05/29/25 15:23	05/30/25 21:24	1
Cadmium	0.62		0.25	0.087	mg/Kg	☆	05/29/25 15:23	05/30/25 21:24	1
Calcium	5670	^5-	62.2	33.6	mg/Kg	☆	05/29/25 15:23	05/30/25 21:24	1
Chromium	17.1		0.62	0.45	mg/Kg	☆	05/29/25 15:23	05/30/25 21:24	1
Cobalt	6.0		0.62	0.12	mg/Kg	☆	05/29/25 15:23	05/30/25 21:24	1
Copper	598		1.2	0.71	mg/Kg	☆	05/29/25 15:23	05/30/25 21:24	1
Iron	18600		12.4	10.6	mg/Kg	☆	05/29/25 15:23	05/30/25 21:24	1
Lead	687		1.2	0.57	mg/Kg	☆	05/29/25 15:23	05/30/25 21:24	1
Magnesium	2720		24.9	10.6	mg/Kg	☆	05/29/25 15:23	05/30/25 21:24	1
Manganese	278	B	1.2	0.35	mg/Kg	☆	05/29/25 15:23	06/04/25 18:28	1
Nickel	14.3	^5-	6.2	0.31	mg/Kg	☆	05/29/25 15:23	05/30/25 21:24	1
Potassium	2160		37.3	30.2	mg/Kg	☆	05/29/25 15:23	05/30/25 21:24	1
Selenium	ND		5.0	1.0	mg/Kg	☆	05/29/25 15:23	05/30/25 21:24	1
Silver	ND	^5-	0.75	0.25	mg/Kg	☆	05/29/25 15:23	06/04/25 18:28	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-BH-9

Lab Sample ID: 480-229745-1

Date Collected: 05/28/25 08:00

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 80.0

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	280		174	76.3	mg/Kg	✱	05/29/25 15:23	06/04/25 18:28	1
Thallium	ND		7.5	0.95	mg/Kg	✱	05/29/25 15:23	05/30/25 21:24	1
Vanadium	26.7		0.62	0.16	mg/Kg	✱	05/29/25 15:23	05/30/25 21:24	1
Zinc	370		2.5	1.3	mg/Kg	✱	05/29/25 15:23	06/04/25 18:28	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.41		0.024	0.0055	mg/Kg	✱	05/30/25 13:38	05/30/25 15:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		1.1	0.51	mg/Kg	✱	06/04/25 12:18	06/04/25 16:22	1

Client Sample ID: RI-BH-10

Lab Sample ID: 480-229745-2

Date Collected: 05/28/25 08:15

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 70.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	7.1	0.51	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
1,1,2,2-Tetrachloroethane	ND	F1 vs	7.1	1.1	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	7.1	1.6	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
1,1,2-Trichloroethane	ND	F1 vs	7.1	0.92	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
1,1-Dichloroethane	ND	vs	7.1	0.86	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
1,1-Dichloroethene	ND	vs	7.1	0.87	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
1,2,4-Trichlorobenzene	ND	F1 vs	7.1	0.43	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
1,2-Dibromo-3-Chloropropane	ND	F1 vs	7.1	3.5	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
1,2-Dichlorobenzene	ND	F1 vs	7.1	0.55	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
1,2-Dichloroethane	ND	vs	7.1	0.35	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
1,2-Dichloropropane	ND	vs	7.1	3.5	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
1,3-Dichlorobenzene	ND	F1 vs	7.1	0.36	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
1,4-Dichlorobenzene	ND	F1 vs	7.1	0.99	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
2-Butanone (MEK)	7.2	J F1 vs	35	2.6	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
2-Hexanone	ND	F1 vs	35	3.5	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
4-Methyl-2-pentanone (MIBK)	ND	F1 vs	35	2.3	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
Acetone	110	vs	35	6.0	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
Benzene	ND	vs	7.1	0.35	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
Bromoform	ND	F1 vs	7.1	3.5	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
Bromomethane	ND	vs	7.1	0.64	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
Carbon disulfide	ND	vs	7.1	3.5	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
Carbon tetrachloride	ND	vs	7.1	0.68	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
Chlorobenzene	ND	F1 vs	7.1	0.93	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
Dibromochloromethane	ND	F1 vs	7.1	0.90	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
Chloroethane	ND	vs	7.1	1.6	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
Chloroform	ND	vs	7.1	0.44	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
Chloromethane	ND	vs	7.1	0.43	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
cis-1,2-Dichloroethene	ND	vs	7.1	0.90	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
Cyclohexane	1.2	J vs	7.1	0.99	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
Bromodichloromethane	ND	vs	7.1	0.95	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
Dichlorodifluoromethane	ND	vs	7.1	0.58	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-BH-10

Lab Sample ID: 480-229745-2

Date Collected: 05/28/25 08:15

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 70.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND	F1 vs	7.1	0.49	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
1,2-Dibromoethane	ND	F1 vs	7.1	0.91	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
Isopropylbenzene	ND	F1 vs	7.1	1.1	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
Methyl acetate	ND	vs	35	4.3	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
Methyl tert-butyl ether	ND	vs	7.1	0.69	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
Methylcyclohexane	4.9	J vs	7.1	1.1	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
Methylene Chloride	ND	vs	7.1	3.3	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
Tetrachloroethene	ND	F1 vs	7.1	0.95	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
Toluene	ND	F1 vs	7.1	0.53	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
trans-1,2-Dichloroethene	ND	vs	7.1	0.73	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
trans-1,3-Dichloropropene	ND	F1 vs	7.1	3.1	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
Trichloroethene	ND	vs	7.1	1.6	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
Trichlorofluoromethane	ND	vs	7.1	0.67	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
Vinyl chloride	ND	vs	7.1	0.86	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
Xylenes, Total	ND	F1 vs	14	1.2	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
cis-1,3-Dichloropropene	ND	vs	7.1	1.0	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1
Styrene	ND	F1 vs	7.1	0.35	ug/Kg	✱	05/29/25 18:02	05/29/25 22:40	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Benzene, 1,2,4,5-tetramethyl-	10	T J N	ug/Kg	✱	11.55	95-93-2	05/29/25 18:02	05/29/25 22:40	1
Benzene, 1,2,3,4-tetramethyl-	19	T J N	ug/Kg	✱	11.60	488-23-3	05/29/25 18:02	05/29/25 22:40	1
Unknown	19	T J	ug/Kg	✱	11.96	N/A	05/29/25 18:02	05/29/25 22:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		64 - 126	05/29/25 18:02	05/29/25 22:40	1
4-Bromofluorobenzene (Surr)	105		72 - 126	05/29/25 18:02	05/29/25 22:40	1
Toluene-d8 (Surr)	89		71 - 125	05/29/25 18:02	05/29/25 22:40	1
Dibromofluoromethane (Surr)	107		60 - 140	05/29/25 18:02	05/29/25 22:40	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		420	150	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
2,4,5-Trichlorophenol	ND		710	140	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
2,4,6-Trichlorophenol	ND		710	110	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
2,4-Dichlorophenol	ND		710	140	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
2,4-Dimethylphenol	ND		710	150	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
2,4-Dinitrophenol	ND		6900	130	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
2,4-Dinitrotoluene	ND		710	96	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
2,6-Dinitrotoluene	ND		710	100	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
2-Chloronaphthalene	ND		710	130	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
2-Chlorophenol	ND		710	110	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
2-Methylnaphthalene	ND		710	110	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
2-Methylphenol	ND		710	110	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
2-Nitroaniline	ND		1400	120	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
2-Nitrophenol	ND		710	80	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
3,3'-Dichlorobenzidine	ND		1400	210	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
3-Nitroaniline	ND		1400	100	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
4,6-Dinitro-2-methylphenol	ND		1400	150	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
4-Bromophenyl phenyl ether	ND		710	120	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
4-Chloro-3-methylphenol	ND		710	140	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-BH-10

Lab Sample ID: 480-229745-2

Date Collected: 05/28/25 08:15

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 70.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		710	100	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
4-Chlorophenyl phenyl ether	ND		710	150	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
4-Methylphenol	ND		1400	130	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
4-Nitroaniline	ND		1400	100	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
4-Nitrophenol	ND		1400	190	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
Acenaphthene	ND		710	130	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
Acenaphthylene	ND		710	140	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
Acetophenone	ND		710	120	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
Anthracene	ND		710	130	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
Atrazine	ND		710	240	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
Benzaldehyde	ND		710	540	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
Benzo[a]anthracene	ND		710	97	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
Benzo[a]pyrene	ND		710	120	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
Benzo[b]fluoranthene	96	J	710	95	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
Benzo[g,h,i]perylene	ND		710	120	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
Benzo[k]fluoranthene	ND		710	160	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
Biphenyl	ND		710	130	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
bis (2-chloroisopropyl) ether	ND		710	140	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
Bis(2-chloroethoxy)methane	ND		710	130	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
Bis(2-chloroethyl)ether	ND		710	130	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
Bis(2-ethylhexyl) phthalate	ND		710	150	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
Butyl benzyl phthalate	ND		710	130	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
Caprolactam	ND		710	160	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
Carbazole	ND		710	140	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
Chrysene	ND		710	170	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
Dibenz(a,h)anthracene	ND		710	140	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
Dibenzofuran	ND		710	120	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
Diethyl phthalate	ND		710	130	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
Dimethyl phthalate	ND		710	140	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
Di-n-butyl phthalate	ND		710	160	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
Di-n-octyl phthalate	ND		710	130	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
Fluoranthene	ND		710	130	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
Fluorene	ND		710	130	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
Hexachlorobenzene	ND		710	140	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
Hexachlorobutadiene	ND		710	110	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
Hexachlorocyclopentadiene	ND		1400	310	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
Hexachloroethane	ND		710	130	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
Indeno[1,2,3-cd]pyrene	ND		710	100	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
Isophorone	ND		710	140	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
Naphthalene	ND		710	120	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
Nitrobenzene	ND		710	120	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
N-Nitrosodi-n-propylamine	ND		710	160	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
N-Nitrosodiphenylamine	ND		710	120	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
Pentachlorophenol	ND		1400	220	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
Phenanthrene	ND		710	130	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
Phenol	ND		710	130	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1
Pyrene	ND		710	130	ug/Kg	✱	05/29/25 13:56	05/30/25 19:46	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	34000	T J	ug/Kg	✱	1.93	N/A	05/29/25 13:56	05/30/25 19:46	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-BH-10

Lab Sample ID: 480-229745-2

Date Collected: 05/28/25 08:15

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 70.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	9800	T J	ug/Kg	☼	3.35	N/A	05/29/25 13:56	05/30/25 19:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	57		10 - 140				05/29/25 13:56	05/30/25 19:46	1
2-Fluorobiphenyl (Surr)	50		29 - 120				05/29/25 13:56	05/30/25 19:46	1
2-Fluorophenol (Surr)	42		18 - 120				05/29/25 13:56	05/30/25 19:46	1
Nitrobenzene-d5 (Surr)	46		22 - 120				05/29/25 13:56	05/30/25 19:46	1
Phenol-d5 (Surr)	45		23 - 120				05/29/25 13:56	05/30/25 19:46	1
p-Terphenyl-d14 (Surr)	55		28 - 124				05/29/25 13:56	05/30/25 19:46	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		14	2.7	ug/Kg	☼	05/30/25 13:55	06/03/25 09:59	1
4,4'-DDE	ND		14	2.9	ug/Kg	☼	05/30/25 13:55	06/03/25 09:59	1
4,4'-DDT	12	J B	14	3.3	ug/Kg	☼	05/30/25 13:55	06/03/25 09:59	1
beta-BHC	ND		14	2.5	ug/Kg	☼	05/30/25 13:55	06/03/25 09:59	1
cis-Chlordane	ND		14	6.9	ug/Kg	☼	05/30/25 13:55	06/03/25 09:59	1
alpha-BHC	ND		14	2.5	ug/Kg	☼	05/30/25 13:55	06/03/25 09:59	1
Aldrin	ND		14	3.4	ug/Kg	☼	05/30/25 13:55	06/03/25 09:59	1
delta-BHC	ND		14	2.6	ug/Kg	☼	05/30/25 13:55	06/03/25 09:59	1
Dieldrin	ND		14	3.3	ug/Kg	☼	05/30/25 13:55	06/03/25 09:59	1
Endosulfan I	ND		14	2.7	ug/Kg	☼	05/30/25 13:55	06/03/25 09:59	1
Endosulfan II	ND		14	2.5	ug/Kg	☼	05/30/25 13:55	06/03/25 09:59	1
Endosulfan sulfate	ND		14	2.6	ug/Kg	☼	05/30/25 13:55	06/03/25 09:59	1
Endrin	ND		14	2.8	ug/Kg	☼	05/30/25 13:55	06/03/25 09:59	1
Endrin aldehyde	ND		14	3.6	ug/Kg	☼	05/30/25 13:55	06/03/25 09:59	1
Endrin ketone	ND		14	3.4	ug/Kg	☼	05/30/25 13:55	06/03/25 09:59	1
gamma-BHC (Lindane)	ND		14	2.6	ug/Kg	☼	05/30/25 13:55	06/03/25 09:59	1
trans-Chlordane	ND		14	4.4	ug/Kg	☼	05/30/25 13:55	06/03/25 09:59	1
Heptachlor	ND		14	3.0	ug/Kg	☼	05/30/25 13:55	06/03/25 09:59	1
Heptachlor epoxide	ND		14	3.6	ug/Kg	☼	05/30/25 13:55	06/03/25 09:59	1
Methoxychlor	12	J	14	2.8	ug/Kg	☼	05/30/25 13:55	06/03/25 09:59	1
Toxaphene	ND		140	81	ug/Kg	☼	05/30/25 13:55	06/03/25 09:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	95		45 - 120				05/30/25 13:55	06/03/25 09:59	1
DCB Decachlorobiphenyl	97		45 - 120				05/30/25 13:55	06/03/25 09:59	1
Tetrachloro-m-xylene	76		30 - 124				05/30/25 13:55	06/03/25 09:59	1
Tetrachloro-m-xylene	77		30 - 124				05/30/25 13:55	06/03/25 09:59	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.34	0.067	mg/Kg	☼	05/30/25 13:30	06/02/25 14:38	1
PCB-1221	ND		0.34	0.067	mg/Kg	☼	05/30/25 13:30	06/02/25 14:38	1
PCB-1232	ND		0.34	0.067	mg/Kg	☼	05/30/25 13:30	06/02/25 14:38	1
PCB-1242	ND		0.34	0.067	mg/Kg	☼	05/30/25 13:30	06/02/25 14:38	1
PCB-1248	ND		0.34	0.067	mg/Kg	☼	05/30/25 13:30	06/02/25 14:38	1
PCB-1254	ND		0.34	0.16	mg/Kg	☼	05/30/25 13:30	06/02/25 14:38	1
PCB-1260	ND		0.34	0.16	mg/Kg	☼	05/30/25 13:30	06/02/25 14:38	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-BH-10

Lab Sample ID: 480-229745-2

Date Collected: 05/28/25 08:15

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 70.7

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	144		60 - 154	05/30/25 13:30	06/02/25 14:38	1
Tetrachloro-m-xylene	130		60 - 154	05/30/25 13:30	06/02/25 14:38	1
DCB Decachlorobiphenyl	138		65 - 174	05/30/25 13:30	06/02/25 14:38	1
DCB Decachlorobiphenyl	137		65 - 174	05/30/25 13:30	06/02/25 14:38	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.39	0.13	ng/g	✱	06/02/25 09:13	06/03/25 13:53	1
Perfluoropentanoic acid (PFPeA)	ND		0.20	0.049	ng/g	✱	06/02/25 09:13	06/03/25 13:53	1
Perfluorohexanoic acid (PFHxA)	ND		0.20	0.059	ng/g	✱	06/02/25 09:13	06/03/25 13:53	1
Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.068	ng/g	✱	06/02/25 09:13	06/03/25 13:53	1
Perfluorooctanoic acid (PFOA)	0.073	J	0.20	0.059	ng/g	✱	06/02/25 09:13	06/03/25 13:53	1
Perfluorononanoic acid (PFNA)	ND		0.20	0.059	ng/g	✱	06/02/25 09:13	06/03/25 13:53	1
Perfluorodecanoic acid (PFDA)	ND		0.20	0.049	ng/g	✱	06/02/25 09:13	06/03/25 13:53	1
Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.049	ng/g	✱	06/02/25 09:13	06/03/25 13:53	1
Perfluorododecanoic acid (PFDoA)	ND		0.20	0.049	ng/g	✱	06/02/25 09:13	06/03/25 13:53	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.20	0.068	ng/g	✱	06/02/25 09:13	06/03/25 13:53	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.20	0.068	ng/g	✱	06/02/25 09:13	06/03/25 13:53	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.068	ng/g	✱	06/02/25 09:13	06/03/25 13:53	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.20	0.059	ng/g	✱	06/02/25 09:13	06/03/25 13:53	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.049	ng/g	✱	06/02/25 09:13	06/03/25 13:53	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.068	ng/g	✱	06/02/25 09:13	06/03/25 13:53	1
Perfluorooctanesulfonic acid (PFOS)	0.17	J	0.20	0.11	ng/g	✱	06/02/25 09:13	06/03/25 13:53	1
Perfluorononanesulfonic acid (PFNS)	ND		0.20	0.068	ng/g	✱	06/02/25 09:13	06/03/25 13:53	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.049	ng/g	✱	06/02/25 09:13	06/03/25 13:53	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.059	ng/g	✱	06/02/25 09:13	06/03/25 13:53	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.39	0.098	ng/g	✱	06/02/25 09:13	06/03/25 13:53	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.39	0.13	ng/g	✱	06/02/25 09:13	06/03/25 13:53	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.39	0.13	ng/g	✱	06/02/25 09:13	06/03/25 13:53	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.088	ng/g	✱	06/02/25 09:13	06/03/25 13:53	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.20	0.088	ng/g	✱	06/02/25 09:13	06/03/25 13:53	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.20	0.098	ng/g	✱	06/02/25 09:13	06/03/25 13:53	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.20	0.078	ng/g	✱	06/02/25 09:13	06/03/25 13:53	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.14	J	0.20	0.11	ng/g	✱	06/02/25 09:13	06/03/25 13:53	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		0.98	0.29	ng/g	✱	06/02/25 09:13	06/03/25 13:53	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		0.98	0.29	ng/g	✱	06/02/25 09:13	06/03/25 13:53	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.20	0.11	ng/g	✱	06/02/25 09:13	06/03/25 13:53	1
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND		0.20	0.059	ng/g	✱	06/02/25 09:13	06/03/25 13:53	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-BH-10

Lab Sample ID: 480-229745-2

Date Collected: 05/28/25 08:15

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 70.7

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.20	0.068	ng/g	☼	06/02/25 09:13	06/03/25 13:53	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.20	0.049	ng/g	☼	06/02/25 09:13	06/03/25 13:53	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.20	0.068	ng/g	☼	06/02/25 09:13	06/03/25 13:53	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid (9CI-PF3ONS)	ND		0.20	0.088	ng/g	☼	06/02/25 09:13	06/03/25 13:53	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11CI-PF3OUdS)	ND		0.20	0.078	ng/g	☼	06/02/25 09:13	06/03/25 13:53	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.20	0.049	ng/g	☼	06/02/25 09:13	06/03/25 13:53	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.39	0.20	ng/g	☼	06/02/25 09:13	06/03/25 13:53	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		0.98	0.49	ng/g	☼	06/02/25 09:13	06/03/25 13:53	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		0.98	0.39	ng/g	☼	06/02/25 09:13	06/03/25 13:53	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4-PFBA	96.1		8 - 130				06/02/25 09:13	06/03/25 13:53	1
13C5-PFPeA	101		35 - 130				06/02/25 09:13	06/03/25 13:53	1
13C5-PFHxA	96.6		40 - 130				06/02/25 09:13	06/03/25 13:53	1
13C4-PFHpA	98.5		40 - 130				06/02/25 09:13	06/03/25 13:53	1
13C8-PFOA	97.1		40 - 130				06/02/25 09:13	06/03/25 13:53	1
13C9-PFNA	92.2		40 - 130				06/02/25 09:13	06/03/25 13:53	1
13C6-PFDA	97.1		40 - 130				06/02/25 09:13	06/03/25 13:53	1
13C7-PFUnA	98.3		40 - 130				06/02/25 09:13	06/03/25 13:53	1
13C2-PFTeDA	107		20 - 130				06/02/25 09:13	06/03/25 13:53	1
13C3-PFBS	92.2		40 - 135				06/02/25 09:13	06/03/25 13:53	1
13C3-PFHxS	93.5		40 - 130				06/02/25 09:13	06/03/25 13:53	1
13C8-PFOS	94.3		40 - 130				06/02/25 09:13	06/03/25 13:53	1
13C8-PFOSA	109		40 - 130				06/02/25 09:13	06/03/25 13:53	1
d3-NMeFOSAA	89.2		40 - 135				06/02/25 09:13	06/03/25 13:53	1
d5-NEtFOSAA	89.6		40 - 150				06/02/25 09:13	06/03/25 13:53	1
13C2 4:2 FTS	129		40 - 165				06/02/25 09:13	06/03/25 13:53	1
13C2 6:2 FTS	133		40 - 215				06/02/25 09:13	06/03/25 13:53	1
13C2 8:2 FTS	110		40 - 275				06/02/25 09:13	06/03/25 13:53	1
13C3-HFPO-DA	97.4		40 - 130				06/02/25 09:13	06/03/25 13:53	1
D7-NMeFOSE	94.8		20 - 130				06/02/25 09:13	06/03/25 13:53	1
D9-NEtFOSE	84.0		15 - 130				06/02/25 09:13	06/03/25 13:53	1
d5-NEtPFOSA	81.3		10 - 130				06/02/25 09:13	06/03/25 13:53	1
d3-NMePFOSA	84.2		10 - 130				06/02/25 09:13	06/03/25 13:53	1
13C2 PFDoA	91.6		40 - 130				06/02/25 09:13	06/03/25 13:53	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000		13.6	11.7	mg/Kg	☼	05/29/25 15:23	05/30/25 21:32	1
Antimony	0.79	J	20.3	0.72	mg/Kg	☼	05/29/25 15:23	05/30/25 21:32	1
Arsenic	19.8		2.7	1.2	mg/Kg	☼	05/29/25 15:23	05/30/25 21:32	1
Barium	354		0.68	0.19	mg/Kg	☼	05/29/25 15:23	05/30/25 21:32	1
Beryllium	1.5	^5- B	0.27	0.054	mg/Kg	☼	05/29/25 15:23	05/30/25 21:32	1
Cadmium	0.25	J	0.27	0.095	mg/Kg	☼	05/29/25 15:23	05/30/25 21:32	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-BH-10

Lab Sample ID: 480-229745-2

Date Collected: 05/28/25 08:15

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 70.7

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	5600	^5-	67.8	36.6	mg/Kg	☆	05/29/25 15:23	05/30/25 21:32	1
Chromium	24.1		0.68	0.49	mg/Kg	☆	05/29/25 15:23	05/30/25 21:32	1
Cobalt	8.8		0.68	0.14	mg/Kg	☆	05/29/25 15:23	05/30/25 21:32	1
Copper	27.5		1.4	0.77	mg/Kg	☆	05/29/25 15:23	05/30/25 21:32	1
Iron	30500	^2 ^+	13.6	11.5	mg/Kg	☆	05/29/25 15:23	05/30/25 21:32	1
Lead	64.3		1.4	0.62	mg/Kg	☆	05/29/25 15:23	05/30/25 21:32	1
Magnesium	1800		27.1	11.5	mg/Kg	☆	05/29/25 15:23	05/30/25 21:32	1
Manganese	219	^5-	1.4	0.38	mg/Kg	☆	05/29/25 15:23	05/30/25 21:32	1
Nickel	22.5	^5-	6.8	0.34	mg/Kg	☆	05/29/25 15:23	05/30/25 21:32	1
Potassium	1570		40.7	32.9	mg/Kg	☆	05/29/25 15:23	05/30/25 21:32	1
Selenium	3.2	J	5.4	1.1	mg/Kg	☆	05/29/25 15:23	05/30/25 21:32	1
Silver	ND	^5-	0.81	0.27	mg/Kg	☆	05/29/25 15:23	06/04/25 18:30	1
Sodium	417		190	83.1	mg/Kg	☆	05/29/25 15:23	06/04/25 18:30	1
Thallium	ND		8.1	1.0	mg/Kg	☆	05/29/25 15:23	05/30/25 21:32	1
Vanadium	29.2		0.68	0.18	mg/Kg	☆	05/29/25 15:23	05/30/25 21:32	1
Zinc	70.1	^5-	2.7	1.4	mg/Kg	☆	05/29/25 15:23	05/30/25 21:32	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12		0.030	0.0068	mg/Kg	☆	05/30/25 13:38	05/30/25 15:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		1.4	0.67	mg/Kg	☆	06/04/25 12:18	06/04/25 16:22	1

Client Sample ID: RI-MW-1

Lab Sample ID: 480-229745-3

Date Collected: 05/28/25 08:30

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 89.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.5	0.40	ug/Kg	☆	06/01/25 18:04	06/02/25 00:42	1
1,1,2,2-Tetrachloroethane	ND	*3 F1 vs	5.5	0.89	ug/Kg	☆	06/01/25 18:04	06/02/25 00:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	F2 vs	5.5	1.3	ug/Kg	☆	06/01/25 18:04	06/02/25 00:42	1
1,1,2-Trichloroethane	ND	vs	5.5	0.71	ug/Kg	☆	06/01/25 18:04	06/02/25 00:42	1
1,1-Dichloroethane	ND	vs	5.5	0.67	ug/Kg	☆	06/01/25 18:04	06/02/25 00:42	1
1,1-Dichloroethene	ND	vs	5.5	0.67	ug/Kg	☆	06/01/25 18:04	06/02/25 00:42	1
1,2,4-Trichlorobenzene	ND	*3 F1 vs	5.5	0.33	ug/Kg	☆	06/01/25 18:04	06/02/25 00:42	1
1,2-Dibromo-3-Chloropropane	ND	*3 vs	5.5	2.7	ug/Kg	☆	06/01/25 18:04	06/02/25 00:42	1
1,2-Dichlorobenzene	ND	*3 F1 vs	5.5	0.43	ug/Kg	☆	06/01/25 18:04	06/02/25 00:42	1
1,2-Dichloroethane	ND	F1 vs	5.5	0.28	ug/Kg	☆	06/01/25 18:04	06/02/25 00:42	1
1,2-Dichloropropane	ND	vs	5.5	2.7	ug/Kg	☆	06/01/25 18:04	06/02/25 00:42	1
1,3-Dichlorobenzene	ND	*3 F1 vs	5.5	0.28	ug/Kg	☆	06/01/25 18:04	06/02/25 00:42	1
1,4-Dichlorobenzene	ND	*3 F1 vs	5.5	0.77	ug/Kg	☆	06/01/25 18:04	06/02/25 00:42	1
2-Butanone (MEK)	ND	vs	27	2.0	ug/Kg	☆	06/01/25 18:04	06/02/25 00:42	1
2-Hexanone	ND	vs	27	2.7	ug/Kg	☆	06/01/25 18:04	06/02/25 00:42	1
4-Methyl-2-pentanone (MIBK)	ND	vs	27	1.8	ug/Kg	☆	06/01/25 18:04	06/02/25 00:42	1
Acetone	8.0	J vs	27	4.6	ug/Kg	☆	06/01/25 18:04	06/02/25 00:42	1
Benzene	ND	vs	5.5	0.27	ug/Kg	☆	06/01/25 18:04	06/02/25 00:42	1
Bromoform	ND	vs	5.5	2.7	ug/Kg	☆	06/01/25 18:04	06/02/25 00:42	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-1

Lab Sample ID: 480-229745-3

Date Collected: 05/28/25 08:30

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 89.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND	vs	5.5	0.49	ug/Kg	☼	06/01/25 18:04	06/02/25 00:42	1
Carbon disulfide	3.5	J vs	5.5	2.7	ug/Kg	☼	06/01/25 18:04	06/02/25 00:42	1
Carbon tetrachloride	ND	F1 vs	5.5	0.53	ug/Kg	☼	06/01/25 18:04	06/02/25 00:42	1
Chlorobenzene	ND	F1 vs	5.5	0.73	ug/Kg	☼	06/01/25 18:04	06/02/25 00:42	1
Dibromochloromethane	ND	vs	5.5	0.70	ug/Kg	☼	06/01/25 18:04	06/02/25 00:42	1
Chloroethane	ND	vs	5.5	1.2	ug/Kg	☼	06/01/25 18:04	06/02/25 00:42	1
Chloroform	ND	vs	5.5	0.34	ug/Kg	☼	06/01/25 18:04	06/02/25 00:42	1
Chloromethane	ND	F1 vs	5.5	0.33	ug/Kg	☼	06/01/25 18:04	06/02/25 00:42	1
cis-1,2-Dichloroethene	1.2	J vs	5.5	0.70	ug/Kg	☼	06/01/25 18:04	06/02/25 00:42	1
Cyclohexane	ND	F1 vs	5.5	0.77	ug/Kg	☼	06/01/25 18:04	06/02/25 00:42	1
Bromodichloromethane	ND	vs	5.5	0.74	ug/Kg	☼	06/01/25 18:04	06/02/25 00:42	1
Dichlorodifluoromethane	ND	vs	5.5	0.45	ug/Kg	☼	06/01/25 18:04	06/02/25 00:42	1
Ethylbenzene	ND	F1 vs	5.5	0.38	ug/Kg	☼	06/01/25 18:04	06/02/25 00:42	1
1,2-Dibromoethane	ND	vs	5.5	0.71	ug/Kg	☼	06/01/25 18:04	06/02/25 00:42	1
Isopropylbenzene	ND	*3 F1 vs	5.5	0.83	ug/Kg	☼	06/01/25 18:04	06/02/25 00:42	1
Methyl acetate	ND	vs	27	3.3	ug/Kg	☼	06/01/25 18:04	06/02/25 00:42	1
Methyl tert-butyl ether	ND	vs	5.5	0.54	ug/Kg	☼	06/01/25 18:04	06/02/25 00:42	1
Methylcyclohexane	12	vs	5.5	0.84	ug/Kg	☼	06/01/25 18:04	06/02/25 00:42	1
Methylene Chloride	ND	F1 vs	5.5	2.5	ug/Kg	☼	06/01/25 18:04	06/02/25 00:42	1
Tetrachloroethene	ND	vs	5.5	0.74	ug/Kg	☼	06/01/25 18:04	06/02/25 00:42	1
Toluene	0.70	J vs	5.5	0.42	ug/Kg	☼	06/01/25 18:04	06/02/25 00:42	1
trans-1,2-Dichloroethene	ND	vs	5.5	0.57	ug/Kg	☼	06/01/25 18:04	06/02/25 00:42	1
trans-1,3-Dichloropropene	ND	vs	5.5	2.4	ug/Kg	☼	06/01/25 18:04	06/02/25 00:42	1
Trichloroethene	ND	vs	5.5	1.2	ug/Kg	☼	06/01/25 18:04	06/02/25 00:42	1
Trichlorofluoromethane	ND	vs	5.5	0.52	ug/Kg	☼	06/01/25 18:04	06/02/25 00:42	1
Vinyl chloride	0.77	J vs	5.5	0.67	ug/Kg	☼	06/01/25 18:04	06/02/25 00:42	1
Xylenes, Total	ND	vs	11	0.92	ug/Kg	☼	06/01/25 18:04	06/02/25 00:42	1
cis-1,3-Dichloropropene	ND	F1 vs	5.5	0.79	ug/Kg	☼	06/01/25 18:04	06/02/25 00:42	1
Styrene	ND	F1 vs	5.5	0.27	ug/Kg	☼	06/01/25 18:04	06/02/25 00:42	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Hexane, 3-methyl-	6.8	T J N	ug/Kg	☼	4.76	589-34-4	06/01/25 18:04	06/02/25 00:42	1
Heptane, 3-methyl-	6.9	T J N	ug/Kg	☼	6.45	589-81-1	06/01/25 18:04	06/02/25 00:42	1
Cyclohexane, 1,4-dimethyl-, cis-	13	T J N	ug/Kg	☼	6.65	624-29-3	06/01/25 18:04	06/02/25 00:42	1
Unknown	9.0	T J	ug/Kg	☼	6.88	N/A	06/01/25 18:04	06/02/25 00:42	1
Cyclohexane, 1,3-dimethyl-, trans-	8.0	T J N	ug/Kg	☼	7.01	2207-03-6	06/01/25 18:04	06/02/25 00:42	1
Cyclohexane, propyl-	9.3	T J N	ug/Kg	☼	9.11	1678-92-8	06/01/25 18:04	06/02/25 00:42	1
Decane	16	T J N	ug/Kg	☼	9.87	124-18-5	06/01/25 18:04	06/02/25 00:42	1
Naphthalene, decahydro-, trans-	7.0	T J N	ug/Kg	☼	10.91	493-02-7	06/01/25 18:04	06/02/25 00:42	1
Unknown	13	T J	ug/Kg	☼	11.02	N/A	06/01/25 18:04	06/02/25 00:42	1
Dodecane	9.5	T J N	ug/Kg	☼	11.98	112-40-3	06/01/25 18:04	06/02/25 00:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		64 - 126	06/01/25 18:04	06/02/25 00:42	1
4-Bromofluorobenzene (Surr)	83		72 - 126	06/01/25 18:04	06/02/25 00:42	1
Toluene-d8 (Surr)	116		71 - 125	06/01/25 18:04	06/02/25 00:42	1
Dibromofluoromethane (Surr)	105		60 - 140	06/01/25 18:04	06/02/25 00:42	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-1

Lab Sample ID: 480-229745-3

Date Collected: 05/28/25 08:30

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 89.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		110	41	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
2,4,5-Trichlorophenol	ND		190	38	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
2,4,6-Trichlorophenol	ND		190	29	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
2,4-Dichlorophenol	ND		190	37	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
2,4-Dimethylphenol	ND		190	39	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
2,4-Dinitrophenol	ND		1800	36	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
2,4-Dinitrotoluene	ND		190	26	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
2,6-Dinitrotoluene	ND		190	27	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
2-Chloronaphthalene	ND		190	35	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
2-Chlorophenol	ND		190	29	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
2-Methylnaphthalene	ND		190	30	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
2-Methylphenol	ND		190	30	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
2-Nitroaniline	ND		370	32	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
2-Nitrophenol	ND		190	21	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
3,3'-Dichlorobenzidine	ND		370	55	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
3-Nitroaniline	ND		370	27	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
4,6-Dinitro-2-methylphenol	ND		370	41	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
4-Bromophenyl phenyl ether	ND		190	32	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
4-Chloro-3-methylphenol	ND		190	38	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
4-Chloroaniline	ND		190	27	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
4-Chlorophenyl phenyl ether	ND		190	39	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
4-Methylphenol	ND		370	34	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
4-Nitroaniline	ND		370	28	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
4-Nitrophenol	ND		370	51	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
Acenaphthene	ND		190	35	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
Acenaphthylene	ND		190	36	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
Acetophenone	ND		190	33	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
Anthracene	ND		190	35	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
Atrazine	ND		190	63	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
Benzaldehyde	ND		190	140	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
Benzo[a]anthracene	ND		190	26	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
Benzo[a]pyrene	ND		190	32	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
Benzo[b]fluoranthene	36 J		190	25	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
Benzo[g,h,i]perylene	ND		190	33	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
Benzo[k]fluoranthene	ND		190	42	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
Biphenyl	ND		190	35	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
bis (2-chloroisopropyl) ether	ND		190	38	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
Bis(2-chloroethoxy)methane	ND		190	36	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
Bis(2-chloroethyl)ether	ND		190	35	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
Bis(2-ethylhexyl) phthalate	ND		190	41	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
Butyl benzyl phthalate	ND		190	35	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
Caprolactam	ND		190	43	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
Carbazole	ND		190	37	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
Chrysene	ND		190	45	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
Dibenz(a,h)anthracene	ND		190	38	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
Dibenzofuran	ND		190	33	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
Diethyl phthalate	ND		190	34	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
Dimethyl phthalate	ND		190	36	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1
Di-n-butyl phthalate	ND		190	42	ug/Kg	✱	05/29/25 13:56	05/30/25 15:30	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-1

Lab Sample ID: 480-229745-3

Date Collected: 05/28/25 08:30

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 89.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		190	36	ug/Kg	☼	05/29/25 13:56	05/30/25 15:30	1
Fluoranthene	45	J	190	34	ug/Kg	☼	05/29/25 13:56	05/30/25 15:30	1
Fluorene	ND		190	34	ug/Kg	☼	05/29/25 13:56	05/30/25 15:30	1
Hexachlorobenzene	ND		190	36	ug/Kg	☼	05/29/25 13:56	05/30/25 15:30	1
Hexachlorobutadiene	ND		190	28	ug/Kg	☼	05/29/25 13:56	05/30/25 15:30	1
Hexachlorocyclopentadiene	ND	F1	370	82	ug/Kg	☼	05/29/25 13:56	05/30/25 15:30	1
Hexachloroethane	ND		190	34	ug/Kg	☼	05/29/25 13:56	05/30/25 15:30	1
Indeno[1,2,3-cd]pyrene	ND		190	28	ug/Kg	☼	05/29/25 13:56	05/30/25 15:30	1
Isophorone	ND		190	38	ug/Kg	☼	05/29/25 13:56	05/30/25 15:30	1
Naphthalene	ND		190	31	ug/Kg	☼	05/29/25 13:56	05/30/25 15:30	1
Nitrobenzene	ND		190	32	ug/Kg	☼	05/29/25 13:56	05/30/25 15:30	1
N-Nitrosodi-n-propylamine	ND		190	42	ug/Kg	☼	05/29/25 13:56	05/30/25 15:30	1
N-Nitrosodiphenylamine	ND		190	31	ug/Kg	☼	05/29/25 13:56	05/30/25 15:30	1
Pentachlorophenol	ND		370	60	ug/Kg	☼	05/29/25 13:56	05/30/25 15:30	1
Phenanthrene	86	J	190	35	ug/Kg	☼	05/29/25 13:56	05/30/25 15:30	1
Phenol	ND		190	34	ug/Kg	☼	05/29/25 13:56	05/30/25 15:30	1
Pyrene	42	J	190	36	ug/Kg	☼	05/29/25 13:56	05/30/25 15:30	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	5300	T J	ug/Kg	☼	1.94	N/A	05/29/25 13:56	05/30/25 15:30	1
Unknown	1800	T J	ug/Kg	☼	3.35	N/A	05/29/25 13:56	05/30/25 15:30	1
Decane	1900	T J N	ug/Kg	☼	5.46	124-18-5	05/29/25 13:56	05/30/25 15:30	1
Undecane	1900	T J N	ug/Kg	☼	6.41	1120-21-4	05/29/25 13:56	05/30/25 15:30	1
Dodecane	2300	T J N	ug/Kg	☼	7.23	112-40-3	05/29/25 13:56	05/30/25 15:30	1
Unknown	1300	T J	ug/Kg	☼	7.75	N/A	05/29/25 13:56	05/30/25 15:30	1
Tridecane	3200	T J N	ug/Kg	☼	7.96	629-50-5	05/29/25 13:56	05/30/25 15:30	1
Tetradecane	1900	T J N	ug/Kg	☼	8.63	629-59-4	05/29/25 13:56	05/30/25 15:30	1
Hexadecane	1500	T J N	ug/Kg	☼	9.83	544-76-3	05/29/25 13:56	05/30/25 15:30	1
Pentadecane, 2,6,10-trimethyl-	2400	T J N	ug/Kg	☼	10.08	3892-00-0	05/29/25 13:56	05/30/25 15:30	1
Heptadecane	4000	T J N	ug/Kg	☼	10.35	629-78-7	05/29/25 13:56	05/30/25 15:30	1
Pentadecane, 2,6,10,14-tetramethyl-	3300	T J N	ug/Kg	☼	10.37	1921-70-6	05/29/25 13:56	05/30/25 15:30	1
Heptadecane, 8-methyl-	3100	T J N	ug/Kg	☼	10.82	13287-23-5	05/29/25 13:56	05/30/25 15:30	1
Dodecane, 2,6,11-trimethyl-	1800	T J N	ug/Kg	☼	10.85	31295-56-4	05/29/25 13:56	05/30/25 15:30	1
Octadecane	2700	T J N	ug/Kg	☼	11.24	593-45-3	05/29/25 13:56	05/30/25 15:30	1
Eicosane	2600	T J N	ug/Kg	☼	11.62	112-95-8	05/29/25 13:56	05/30/25 15:30	1
Nonadecane	1300	T J N	ug/Kg	☼	12.60	629-92-5	05/29/25 13:56	05/30/25 15:30	1
Heneicosane	1400	T J N	ug/Kg	☼	12.89	629-94-7	05/29/25 13:56	05/30/25 15:30	1
Pentacosane	1200	T J N	ug/Kg	☼	13.17	629-99-2	05/29/25 13:56	05/30/25 15:30	1
Docosane	1200	T J N	ug/Kg	☼	13.43	629-97-0	05/29/25 13:56	05/30/25 15:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	56		10 - 140	05/29/25 13:56	05/30/25 15:30	1
2-Fluorobiphenyl (Surr)	63		29 - 120	05/29/25 13:56	05/30/25 15:30	1
2-Fluorophenol (Surr)	54		18 - 120	05/29/25 13:56	05/30/25 15:30	1
Nitrobenzene-d5 (Surr)	56		22 - 120	05/29/25 13:56	05/30/25 15:30	1
Phenol-d5 (Surr)	58		23 - 120	05/29/25 13:56	05/30/25 15:30	1
p-Terphenyl-d14 (Surr)	65		28 - 124	05/29/25 13:56	05/30/25 15:30	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-1

Lab Sample ID: 480-229745-3

Date Collected: 05/28/25 08:30

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 89.7

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	F1	74	14	ug/Kg	✱	05/30/25 13:55	06/02/25 13:03	20
4,4'-DDE	ND	F1	74	16	ug/Kg	✱	05/30/25 13:55	06/02/25 13:03	20
4,4'-DDT	57	J F1 B	74	17	ug/Kg	✱	05/30/25 13:55	06/02/25 13:03	20
beta-BHC	ND	F1	74	13	ug/Kg	✱	05/30/25 13:55	06/02/25 13:03	20
cis-Chlordane	ND	F1	74	37	ug/Kg	✱	05/30/25 13:55	06/02/25 13:03	20
alpha-BHC	ND	F1	74	13	ug/Kg	✱	05/30/25 13:55	06/02/25 13:03	20
Aldrin	ND	F1	74	18	ug/Kg	✱	05/30/25 13:55	06/02/25 13:03	20
delta-BHC	ND	F1	74	14	ug/Kg	✱	05/30/25 13:55	06/02/25 13:03	20
Dieldrin	ND	F1	74	18	ug/Kg	✱	05/30/25 13:55	06/02/25 13:03	20
Endosulfan I	ND	F1	74	14	ug/Kg	✱	05/30/25 13:55	06/02/25 13:03	20
Endosulfan II	ND	F1	74	13	ug/Kg	✱	05/30/25 13:55	06/02/25 13:03	20
Endosulfan sulfate	ND	F1	74	14	ug/Kg	✱	05/30/25 13:55	06/02/25 13:03	20
Endrin	ND	F1	74	15	ug/Kg	✱	05/30/25 13:55	06/02/25 13:03	20
Endrin aldehyde	ND	F1	74	19	ug/Kg	✱	05/30/25 13:55	06/02/25 13:03	20
Endrin ketone	35	J F1	74	18	ug/Kg	✱	05/30/25 13:55	06/02/25 13:03	20
gamma-BHC (Lindane)	ND	F1	74	14	ug/Kg	✱	05/30/25 13:55	06/02/25 13:03	20
trans-Chlordane	ND	F1	74	23	ug/Kg	✱	05/30/25 13:55	06/02/25 13:03	20
Heptachlor	ND	F1	74	16	ug/Kg	✱	05/30/25 13:55	06/02/25 13:03	20
Heptachlor epoxide	ND	F1	74	19	ug/Kg	✱	05/30/25 13:55	06/02/25 13:03	20
Methoxychlor	ND	F1	74	15	ug/Kg	✱	05/30/25 13:55	06/02/25 13:03	20
Toxaphene	ND		740	430	ug/Kg	✱	05/30/25 13:55	06/02/25 13:03	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	168	S1+	45 - 120	05/30/25 13:55	06/02/25 13:03	20
DCB Decachlorobiphenyl	166	S1+	45 - 120	05/30/25 13:55	06/02/25 13:03	20
Tetrachloro-m-xylene	0	S1-	30 - 124	05/30/25 13:55	06/02/25 13:03	20
Tetrachloro-m-xylene	0	S1-	30 - 124	05/30/25 13:55	06/02/25 13:03	20

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.26	0.052	mg/Kg	✱	05/30/25 13:30	06/02/25 11:14	1
PCB-1221	ND		0.26	0.052	mg/Kg	✱	05/30/25 13:30	06/02/25 11:14	1
PCB-1232	ND		0.26	0.052	mg/Kg	✱	05/30/25 13:30	06/02/25 11:14	1
PCB-1242	ND		0.26	0.052	mg/Kg	✱	05/30/25 13:30	06/02/25 11:14	1
PCB-1248	ND		0.26	0.052	mg/Kg	✱	05/30/25 13:30	06/02/25 11:14	1
PCB-1254	ND		0.26	0.12	mg/Kg	✱	05/30/25 13:30	06/02/25 11:14	1
PCB-1260	ND		0.26	0.12	mg/Kg	✱	05/30/25 13:30	06/02/25 11:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	134		60 - 154	05/30/25 13:30	06/02/25 11:14	1
Tetrachloro-m-xylene	117		60 - 154	05/30/25 13:30	06/02/25 11:14	1
DCB Decachlorobiphenyl	127		65 - 174	05/30/25 13:30	06/02/25 11:14	1
DCB Decachlorobiphenyl	128		65 - 174	05/30/25 13:30	06/02/25 11:14	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.38	0.13	ng/g	✱	06/02/25 09:13	06/03/25 14:06	1
Perfluoropentanoic acid (PFPeA)	ND		0.19	0.048	ng/g	✱	06/02/25 09:13	06/03/25 14:06	1
Perfluorohexanoic acid (PFHxA)	ND		0.19	0.058	ng/g	✱	06/02/25 09:13	06/03/25 14:06	1
Perfluoroheptanoic acid (PFHpA)	ND		0.19	0.067	ng/g	✱	06/02/25 09:13	06/03/25 14:06	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-1

Lab Sample ID: 480-229745-3

Date Collected: 05/28/25 08:30

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 89.7

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	ND		0.19	0.058	ng/g	✱	06/02/25 09:13	06/03/25 14:06	1
Perfluorononanoic acid (PFNA)	ND		0.19	0.058	ng/g	✱	06/02/25 09:13	06/03/25 14:06	1
Perfluorodecanoic acid (PFDA)	ND		0.19	0.048	ng/g	✱	06/02/25 09:13	06/03/25 14:06	1
Perfluoroundecanoic acid (PFUnA)	ND		0.19	0.048	ng/g	✱	06/02/25 09:13	06/03/25 14:06	1
Perfluorododecanoic acid (PFDoA)	ND		0.19	0.048	ng/g	✱	06/02/25 09:13	06/03/25 14:06	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.19	0.067	ng/g	✱	06/02/25 09:13	06/03/25 14:06	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.19	0.067	ng/g	✱	06/02/25 09:13	06/03/25 14:06	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.19	0.067	ng/g	✱	06/02/25 09:13	06/03/25 14:06	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.19	0.058	ng/g	✱	06/02/25 09:13	06/03/25 14:06	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.19	0.048	ng/g	✱	06/02/25 09:13	06/03/25 14:06	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.19	0.067	ng/g	✱	06/02/25 09:13	06/03/25 14:06	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.19	0.11	ng/g	✱	06/02/25 09:13	06/03/25 14:06	1
Perfluorononanesulfonic acid (PFNS)	ND		0.19	0.067	ng/g	✱	06/02/25 09:13	06/03/25 14:06	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.19	0.048	ng/g	✱	06/02/25 09:13	06/03/25 14:06	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.19	0.058	ng/g	✱	06/02/25 09:13	06/03/25 14:06	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.38	0.096	ng/g	✱	06/02/25 09:13	06/03/25 14:06	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.38	0.13	ng/g	✱	06/02/25 09:13	06/03/25 14:06	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.38	0.13	ng/g	✱	06/02/25 09:13	06/03/25 14:06	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.19	0.087	ng/g	✱	06/02/25 09:13	06/03/25 14:06	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.19	0.087	ng/g	✱	06/02/25 09:13	06/03/25 14:06	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.19	0.096	ng/g	✱	06/02/25 09:13	06/03/25 14:06	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.19	0.077	ng/g	✱	06/02/25 09:13	06/03/25 14:06	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.19	0.11	ng/g	✱	06/02/25 09:13	06/03/25 14:06	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		0.96	0.29	ng/g	✱	06/02/25 09:13	06/03/25 14:06	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		0.96	0.29	ng/g	✱	06/02/25 09:13	06/03/25 14:06	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.19	0.11	ng/g	✱	06/02/25 09:13	06/03/25 14:06	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.19	0.058	ng/g	✱	06/02/25 09:13	06/03/25 14:06	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.19	0.067	ng/g	✱	06/02/25 09:13	06/03/25 14:06	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.19	0.048	ng/g	✱	06/02/25 09:13	06/03/25 14:06	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.19	0.067	ng/g	✱	06/02/25 09:13	06/03/25 14:06	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	ND		0.19	0.087	ng/g	✱	06/02/25 09:13	06/03/25 14:06	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	ND		0.19	0.077	ng/g	✱	06/02/25 09:13	06/03/25 14:06	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.19	0.048	ng/g	✱	06/02/25 09:13	06/03/25 14:06	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.38	0.19	ng/g	✱	06/02/25 09:13	06/03/25 14:06	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-1

Lab Sample ID: 480-229745-3

Date Collected: 05/28/25 08:30

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 89.7

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		0.96	0.48	ng/g	☆	06/02/25 09:13	06/03/25 14:06	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		0.96	0.38	ng/g	☆	06/02/25 09:13	06/03/25 14:06	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4-PFBA	95.7		8 - 130				06/02/25 09:13	06/03/25 14:06	1
13C5-PFPeA	104		35 - 130				06/02/25 09:13	06/03/25 14:06	1
13C5-PFHxA	99.1		40 - 130				06/02/25 09:13	06/03/25 14:06	1
13C4-PFHpA	98.2		40 - 130				06/02/25 09:13	06/03/25 14:06	1
13C8-PFOA	97.0		40 - 130				06/02/25 09:13	06/03/25 14:06	1
13C9-PFNA	96.0		40 - 130				06/02/25 09:13	06/03/25 14:06	1
13C6-PFDA	102		40 - 130				06/02/25 09:13	06/03/25 14:06	1
13C7-PFUnA	101		40 - 130				06/02/25 09:13	06/03/25 14:06	1
13C2-PFTeDA	96.3		20 - 130				06/02/25 09:13	06/03/25 14:06	1
13C3-PFBS	90.2		40 - 135				06/02/25 09:13	06/03/25 14:06	1
13C3-PFHxS	98.4		40 - 130				06/02/25 09:13	06/03/25 14:06	1
13C8-PFOS	95.1		40 - 130				06/02/25 09:13	06/03/25 14:06	1
13C8-PFOSA	108		40 - 130				06/02/25 09:13	06/03/25 14:06	1
d3-NMeFOSAA	93.3		40 - 135				06/02/25 09:13	06/03/25 14:06	1
d5-NEtFOSAA	102		40 - 150				06/02/25 09:13	06/03/25 14:06	1
13C2 4:2 FTS	105		40 - 165				06/02/25 09:13	06/03/25 14:06	1
13C2 6:2 FTS	135		40 - 215				06/02/25 09:13	06/03/25 14:06	1
13C2 8:2 FTS	114		40 - 275				06/02/25 09:13	06/03/25 14:06	1
13C3-HFPO-DA	98.1		40 - 130				06/02/25 09:13	06/03/25 14:06	1
D7-NMeFOSE	99.8		20 - 130				06/02/25 09:13	06/03/25 14:06	1
D9-NEtFOSE	92.7		15 - 130				06/02/25 09:13	06/03/25 14:06	1
d5-NEtPFOSA	85.8		10 - 130				06/02/25 09:13	06/03/25 14:06	1
d3-NMePFOSA	89.1		10 - 130				06/02/25 09:13	06/03/25 14:06	1
13C2 PFDaA	85.0		40 - 130				06/02/25 09:13	06/03/25 14:06	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13400		11.2	9.6	mg/Kg	☆	05/29/25 15:23	05/30/25 21:34	1
Antimony	1.1	J F1	16.7	0.59	mg/Kg	☆	05/29/25 15:23	05/30/25 21:34	1
Arsenic	12.2		2.2	0.98	mg/Kg	☆	05/29/25 15:23	05/30/25 21:34	1
Barium	134	F1	0.56	0.16	mg/Kg	☆	05/29/25 15:23	05/30/25 21:34	1
Beryllium	1.0	^5- B	0.22	0.045	mg/Kg	☆	05/29/25 15:23	05/30/25 21:34	1
Cadmium	0.16	J	0.22	0.078	mg/Kg	☆	05/29/25 15:23	05/30/25 21:34	1
Calcium	10800	^5- F1 F2	55.8	30.1	mg/Kg	☆	05/29/25 15:23	05/30/25 21:34	1
Chromium	17.7		0.56	0.40	mg/Kg	☆	05/29/25 15:23	05/30/25 21:34	1
Cobalt	16.4		0.56	0.11	mg/Kg	☆	05/29/25 15:23	05/30/25 21:34	1
Copper	40.9		1.1	0.64	mg/Kg	☆	05/29/25 15:23	05/30/25 21:34	1
Iron	29800	^2 ^+	11.2	9.5	mg/Kg	☆	05/29/25 15:23	05/30/25 21:34	1
Lead	20.6		1.1	0.51	mg/Kg	☆	05/29/25 15:23	05/30/25 21:34	1
Magnesium	6750	F1 F2	22.3	9.5	mg/Kg	☆	05/29/25 15:23	05/30/25 21:34	1
Manganese	308	B F1	1.1	0.31	mg/Kg	☆	05/29/25 15:23	06/04/25 18:31	1
Nickel	38.8	^5-	5.6	0.28	mg/Kg	☆	05/29/25 15:23	05/30/25 21:34	1
Potassium	2970	F1 F2	33.5	27.0	mg/Kg	☆	05/29/25 15:23	05/30/25 21:34	1
Selenium	1.2	J	4.5	0.89	mg/Kg	☆	05/29/25 15:23	05/30/25 21:34	1
Silver	ND	^5-	0.67	0.22	mg/Kg	☆	05/29/25 15:23	06/04/25 18:31	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-1

Lab Sample ID: 480-229745-3

Date Collected: 05/28/25 08:30

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 89.7

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	176	F1 F2	156	68.4	mg/Kg	✱	05/29/25 15:23	06/04/25 18:31	1
Thallium	ND		6.7	0.85	mg/Kg	✱	05/29/25 15:23	05/30/25 21:34	1
Vanadium	19.7		0.56	0.15	mg/Kg	✱	05/29/25 15:23	05/30/25 21:34	1
Zinc	42.3	^5-	2.2	1.1	mg/Kg	✱	05/29/25 15:23	05/30/25 21:34	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023	F1 F2	0.023	0.0052	mg/Kg	✱	05/30/25 13:38	05/30/25 15:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		1.0	0.50	mg/Kg	✱	06/04/25 12:18	06/04/25 16:14	1

Client Sample ID: RI-MW-2

Lab Sample ID: 480-229745-4

Date Collected: 05/28/25 09:15

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 85.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.7	0.42	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
1,1,2,2-Tetrachloroethane	ND	vs	5.7	0.93	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.7	1.3	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
1,1,2-Trichloroethane	ND	vs	5.7	0.75	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
1,1-Dichloroethane	ND	vs	5.7	0.70	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
1,1-Dichloroethene	ND	vs	5.7	0.70	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
1,2,4-Trichlorobenzene	ND	vs	5.7	0.35	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.7	2.9	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
1,2-Dichlorobenzene	ND	vs	5.7	0.45	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
1,2-Dichloroethane	ND	vs	5.7	0.29	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
1,2-Dichloropropane	ND	vs	5.7	2.9	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
1,3-Dichlorobenzene	ND	vs	5.7	0.29	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
1,4-Dichlorobenzene	ND	vs	5.7	0.80	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
2-Butanone (MEK)	ND	vs	29	2.1	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
2-Hexanone	ND	vs	29	2.9	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
4-Methyl-2-pentanone (MIBK)	ND	vs	29	1.9	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
Acetone	15	J B vs	29	4.8	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
Benzene	ND	vs	5.7	0.28	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
Bromoform	ND	vs	5.7	2.9	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
Bromomethane	ND	vs	5.7	0.52	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
Carbon disulfide	ND	vs	5.7	2.9	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
Carbon tetrachloride	ND	vs	5.7	0.56	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
Chlorobenzene	ND	vs	5.7	0.76	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
Dibromochloromethane	ND	vs	5.7	0.73	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
Chloroethane	ND	vs	5.7	1.3	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
Chloroform	0.52	J B vs	5.7	0.35	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
Chloromethane	ND	vs	5.7	0.35	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
cis-1,2-Dichloroethene	ND	vs	5.7	0.73	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
Cyclohexane	ND	vs	5.7	0.80	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
Bromodichloromethane	ND	vs	5.7	0.77	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
Dichlorodifluoromethane	ND	vs	5.7	0.47	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-2

Lab Sample ID: 480-229745-4

Date Collected: 05/28/25 09:15

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 85.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND	vs	5.7	0.40	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
1,2-Dibromoethane	ND	vs	5.7	0.74	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
Isopropylbenzene	ND	vs	5.7	0.87	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
Methyl acetate	ND	vs	29	3.5	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
Methyl tert-butyl ether	ND	vs	5.7	0.56	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
Methylcyclohexane	ND	vs	5.7	0.87	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
Methylene Chloride	ND	vs	5.7	2.6	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
Tetrachloroethene	ND	vs	5.7	0.77	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
Toluene	ND	vs	5.7	0.43	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
trans-1,2-Dichloroethene	ND	vs	5.7	0.59	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
trans-1,3-Dichloropropene	ND	vs	5.7	2.5	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
Trichloroethene	ND	vs	5.7	1.3	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
Trichlorofluoromethane	ND	vs	5.7	0.54	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
Vinyl chloride	ND	vs	5.7	0.70	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
Xylenes, Total	ND	vs	11	0.96	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
cis-1,3-Dichloropropene	ND	vs	5.7	0.83	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1
Styrene	ND	vs	5.7	0.29	ug/Kg	✱	05/29/25 18:02	05/29/25 23:27	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	✱		N/A	05/29/25 18:02	05/29/25 23:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		64 - 126	05/29/25 18:02	05/29/25 23:27	1
4-Bromofluorobenzene (Surr)	107		72 - 126	05/29/25 18:02	05/29/25 23:27	1
Toluene-d8 (Surr)	90		71 - 125	05/29/25 18:02	05/29/25 23:27	1
Dibromofluoromethane (Surr)	109		60 - 140	05/29/25 18:02	05/29/25 23:27	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		120	43	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
2,4,5-Trichlorophenol	ND		200	40	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
2,4,6-Trichlorophenol	ND		200	30	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
2,4-Dichlorophenol	ND		200	38	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
2,4-Dimethylphenol	ND		200	41	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
2,4-Dinitrophenol	ND		1900	37	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
2,4-Dinitrotoluene	ND		200	27	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
2,6-Dinitrotoluene	ND		200	28	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
2-Chloronaphthalene	ND		200	37	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
2-Chlorophenol	ND		200	31	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
2-Methylnaphthalene	35 J		200	31	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
2-Methylphenol	ND		200	32	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
2-Nitroaniline	ND		380	33	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
2-Nitrophenol	ND		200	22	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
3,3'-Dichlorobenzidine	ND		380	57	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
3-Nitroaniline	ND		380	28	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
4,6-Dinitro-2-methylphenol	ND		380	43	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
4-Bromophenyl phenyl ether	ND		200	33	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
4-Chloro-3-methylphenol	ND		200	40	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
4-Chloroaniline	ND		200	28	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
4-Chlorophenyl phenyl ether	ND		200	41	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-2

Lab Sample ID: 480-229745-4

Date Collected: 05/28/25 09:15

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 85.4

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methylphenol	ND		380	35	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
4-Nitroaniline	ND		380	29	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
4-Nitrophenol	ND		380	54	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
Acenaphthene	ND		200	36	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
Acenaphthylene	ND		200	38	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
Acetophenone	ND		200	35	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
Anthracene	ND		200	36	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
Atrazine	ND		200	66	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
Benzaldehyde	ND		200	150	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
Benzo[a]anthracene	ND		200	27	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
Benzo[a]pyrene	ND		200	33	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
Benzo[b]fluoranthene	ND		200	26	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
Benzo[g,h,i]perylene	ND		200	34	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
Benzo[k]fluoranthene	ND		200	44	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
Biphenyl	ND		200	37	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
bis (2-chloroisopropyl) ether	ND		200	40	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
Bis(2-chloroethoxy)methane	ND		200	38	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
Bis(2-chloroethyl)ether	ND		200	37	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
Bis(2-ethylhexyl) phthalate	ND		200	43	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
Butyl benzyl phthalate	ND		200	36	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
Caprolactam	ND		200	45	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
Carbazole	ND		200	39	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
Chrysene	ND		200	47	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
Dibenz(a,h)anthracene	ND		200	40	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
Dibenzofuran	ND		200	35	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
Diethyl phthalate	ND		200	35	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
Dimethyl phthalate	ND		200	38	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
Di-n-butyl phthalate	ND		200	44	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
Di-n-octyl phthalate	ND		200	37	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
Fluoranthene	ND		200	36	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
Fluorene	ND		200	36	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
Hexachlorobenzene	ND		200	38	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
Hexachlorobutadiene	ND		200	29	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
Hexachlorocyclopentadiene	ND		380	86	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
Hexachloroethane	ND		200	36	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
Indeno[1,2,3-cd]pyrene	ND		200	29	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
Isophorone	ND		200	40	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
Naphthalene	ND		200	33	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
Nitrobenzene	ND		200	33	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
N-Nitrosodi-n-propylamine	ND		200	44	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
N-Nitrosodiphenylamine	ND		200	33	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
Pentachlorophenol	ND		380	63	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
Phenanthrene	64	J	200	37	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
Phenol	ND		200	36	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1
Pyrene	ND		200	37	ug/Kg	✱	05/29/25 13:56	05/30/25 20:22	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	3500	T J	ug/Kg	✱	1.93	N/A	05/29/25 13:56	05/30/25 20:22	1
Unknown	6300	T J	ug/Kg	✱	3.37	N/A	05/29/25 13:56	05/30/25 20:22	1
Nonane	810	T J N	ug/Kg	✱	4.27	111-84-2	05/29/25 13:56	05/30/25 20:22	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-2

Lab Sample ID: 480-229745-4

Date Collected: 05/28/25 09:15

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 85.4

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	750	T J	ug/Kg	⊛	4.70	N/A	05/29/25 13:56	05/30/25 20:22	1
Decane	1500	T J N	ug/Kg	⊛	5.46	124-18-5	05/29/25 13:56	05/30/25 20:22	1
Undecane	1500	T J N	ug/Kg	⊛	6.42	1120-21-4	05/29/25 13:56	05/30/25 20:22	1
Dodecane	1300	T J N	ug/Kg	⊛	7.23	112-40-3	05/29/25 13:56	05/30/25 20:22	1
Undecane, 2,6-dimethyl-	690	T J N	ug/Kg	⊛	7.33	17301-23-4	05/29/25 13:56	05/30/25 20:22	1
Unknown	750	T J	ug/Kg	⊛	7.75	N/A	05/29/25 13:56	05/30/25 20:22	1
Tridecane	1600	T J N	ug/Kg	⊛	7.96	629-50-5	05/29/25 13:56	05/30/25 20:22	1
Hexadecane	1100	T J N	ug/Kg	⊛	9.83	544-76-3	05/29/25 13:56	05/30/25 20:22	1
Pentadecane, 2,6,10-trimethyl-	1200	T J N	ug/Kg	⊛	10.08	3892-00-0	05/29/25 13:56	05/30/25 20:22	1
Heptadecane	2200	T J N	ug/Kg	⊛	10.35	629-78-7	05/29/25 13:56	05/30/25 20:22	1
Tetradecane	1500	T J N	ug/Kg	⊛	10.82	629-59-4	05/29/25 13:56	05/30/25 20:22	1
Nonadecane	1300	T J N	ug/Kg	⊛	11.23	629-92-5	05/29/25 13:56	05/30/25 20:22	1
Eicosane	1200	T J N	ug/Kg	⊛	11.62	112-95-8	05/29/25 13:56	05/30/25 20:22	1
Heneicosane	1000	T J N	ug/Kg	⊛	11.96	629-94-7	05/29/25 13:56	05/30/25 20:22	1
Docosane	900	T J N	ug/Kg	⊛	12.29	629-97-0	05/29/25 13:56	05/30/25 20:22	1
Tricosane	670	T J N	ug/Kg	⊛	12.60	638-67-5	05/29/25 13:56	05/30/25 20:22	1
Tetracosane	640	T J N	ug/Kg	⊛	12.89	646-31-1	05/29/25 13:56	05/30/25 20:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	70		10 - 140	05/29/25 13:56	05/30/25 20:22	1
2-Fluorobiphenyl (Surr)	68		29 - 120	05/29/25 13:56	05/30/25 20:22	1
2-Fluorophenol (Surr)	57		18 - 120	05/29/25 13:56	05/30/25 20:22	1
Nitrobenzene-d5 (Surr)	65		22 - 120	05/29/25 13:56	05/30/25 20:22	1
Phenol-d5 (Surr)	55		23 - 120	05/29/25 13:56	05/30/25 20:22	1
p-Terphenyl-d14 (Surr)	63		28 - 124	05/29/25 13:56	05/30/25 20:22	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	1.7	J	3.9	0.75	ug/Kg	⊛	05/30/25 13:55	06/02/25 14:21	1
4,4'-DDE	ND		3.9	0.81	ug/Kg	⊛	05/30/25 13:55	06/02/25 14:21	1
4,4'-DDT	3.2	J B	3.9	0.90	ug/Kg	⊛	05/30/25 13:55	06/02/25 14:21	1
beta-BHC	ND		3.9	0.70	ug/Kg	⊛	05/30/25 13:55	06/02/25 14:21	1
cis-Chlordane	ND		3.9	1.9	ug/Kg	⊛	05/30/25 13:55	06/02/25 14:21	1
alpha-BHC	1.2	J	3.9	0.70	ug/Kg	⊛	05/30/25 13:55	06/02/25 14:21	1
Aldrin	ND		3.9	0.95	ug/Kg	⊛	05/30/25 13:55	06/02/25 14:21	1
delta-BHC	ND		3.9	0.72	ug/Kg	⊛	05/30/25 13:55	06/02/25 14:21	1
Dieldrin	ND		3.9	0.93	ug/Kg	⊛	05/30/25 13:55	06/02/25 14:21	1
Endosulfan I	ND		3.9	0.74	ug/Kg	⊛	05/30/25 13:55	06/02/25 14:21	1
Endosulfan II	ND		3.9	0.70	ug/Kg	⊛	05/30/25 13:55	06/02/25 14:21	1
Endosulfan sulfate	ND		3.9	0.72	ug/Kg	⊛	05/30/25 13:55	06/02/25 14:21	1
Endrin	ND		3.9	0.77	ug/Kg	⊛	05/30/25 13:55	06/02/25 14:21	1
Endrin aldehyde	ND		3.9	0.99	ug/Kg	⊛	05/30/25 13:55	06/02/25 14:21	1
Endrin ketone	2.1	J	3.9	0.95	ug/Kg	⊛	05/30/25 13:55	06/02/25 14:21	1
gamma-BHC (Lindane)	1.0	J	3.9	0.71	ug/Kg	⊛	05/30/25 13:55	06/02/25 14:21	1
trans-Chlordane	ND		3.9	1.2	ug/Kg	⊛	05/30/25 13:55	06/02/25 14:21	1
Heptachlor	ND		3.9	0.84	ug/Kg	⊛	05/30/25 13:55	06/02/25 14:21	1
Heptachlor epoxide	ND		3.9	1.0	ug/Kg	⊛	05/30/25 13:55	06/02/25 14:21	1
Methoxychlor	ND		3.9	0.79	ug/Kg	⊛	05/30/25 13:55	06/02/25 14:21	1
Toxaphene	ND		39	23	ug/Kg	⊛	05/30/25 13:55	06/02/25 14:21	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-2

Lab Sample ID: 480-229745-4

Date Collected: 05/28/25 09:15

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 85.4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	54		45 - 120	05/30/25 13:55	06/02/25 14:21	1
DCB Decachlorobiphenyl	57		45 - 120	05/30/25 13:55	06/02/25 14:21	1
Tetrachloro-m-xylene	57		30 - 124	05/30/25 13:55	06/02/25 14:21	1
Tetrachloro-m-xylene	50		30 - 124	05/30/25 13:55	06/02/25 14:21	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.28	0.054	mg/Kg	✱	05/30/25 13:30	06/02/25 18:01	1
PCB-1221	ND		0.28	0.054	mg/Kg	✱	05/30/25 13:30	06/02/25 18:01	1
PCB-1232	ND		0.28	0.054	mg/Kg	✱	05/30/25 13:30	06/02/25 18:01	1
PCB-1242	ND		0.28	0.054	mg/Kg	✱	05/30/25 13:30	06/02/25 18:01	1
PCB-1248	ND		0.28	0.054	mg/Kg	✱	05/30/25 13:30	06/02/25 18:01	1
PCB-1254	ND		0.28	0.13	mg/Kg	✱	05/30/25 13:30	06/02/25 18:01	1
PCB-1260	ND		0.28	0.13	mg/Kg	✱	05/30/25 13:30	06/02/25 18:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	130		60 - 154	05/30/25 13:30	06/02/25 18:01	1
Tetrachloro-m-xylene	114		60 - 154	05/30/25 13:30	06/02/25 18:01	1
DCB Decachlorobiphenyl	128		65 - 174	05/30/25 13:30	06/02/25 18:01	1
DCB Decachlorobiphenyl	125		65 - 174	05/30/25 13:30	06/02/25 18:01	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.39	0.13	ng/g	✱	06/02/25 09:13	06/03/25 14:47	1
Perfluoropentanoic acid (PFPeA)	ND		0.20	0.049	ng/g	✱	06/02/25 09:13	06/03/25 14:47	1
Perfluorohexanoic acid (PFHxA)	ND		0.20	0.059	ng/g	✱	06/02/25 09:13	06/03/25 14:47	1
Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.069	ng/g	✱	06/02/25 09:13	06/03/25 14:47	1
Perfluorooctanoic acid (PFOA)	ND		0.20	0.059	ng/g	✱	06/02/25 09:13	06/03/25 14:47	1
Perfluorononanoic acid (PFNA)	ND		0.20	0.059	ng/g	✱	06/02/25 09:13	06/03/25 14:47	1
Perfluorodecanoic acid (PFDA)	ND		0.20	0.049	ng/g	✱	06/02/25 09:13	06/03/25 14:47	1
Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.049	ng/g	✱	06/02/25 09:13	06/03/25 14:47	1
Perfluorododecanoic acid (PFDoA)	ND		0.20	0.049	ng/g	✱	06/02/25 09:13	06/03/25 14:47	1
Perfluorotridecanoic acid (PFTriDA)	ND		0.20	0.069	ng/g	✱	06/02/25 09:13	06/03/25 14:47	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.20	0.069	ng/g	✱	06/02/25 09:13	06/03/25 14:47	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.069	ng/g	✱	06/02/25 09:13	06/03/25 14:47	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.20	0.059	ng/g	✱	06/02/25 09:13	06/03/25 14:47	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.049	ng/g	✱	06/02/25 09:13	06/03/25 14:47	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.069	ng/g	✱	06/02/25 09:13	06/03/25 14:47	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.20	0.11	ng/g	✱	06/02/25 09:13	06/03/25 14:47	1
Perfluorononanesulfonic acid (PFNS)	ND		0.20	0.069	ng/g	✱	06/02/25 09:13	06/03/25 14:47	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.049	ng/g	✱	06/02/25 09:13	06/03/25 14:47	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.059	ng/g	✱	06/02/25 09:13	06/03/25 14:47	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.39	0.098	ng/g	✱	06/02/25 09:13	06/03/25 14:47	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.39	0.13	ng/g	✱	06/02/25 09:13	06/03/25 14:47	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.39	0.13	ng/g	✱	06/02/25 09:13	06/03/25 14:47	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.088	ng/g	✱	06/02/25 09:13	06/03/25 14:47	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-2

Lab Sample ID: 480-229745-4

Date Collected: 05/28/25 09:15

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 85.4

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.20	0.088	ng/g	☼	06/02/25 09:13	06/03/25 14:47	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.20	0.098	ng/g	☼	06/02/25 09:13	06/03/25 14:47	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.20	0.078	ng/g	☼	06/02/25 09:13	06/03/25 14:47	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.20	0.11	ng/g	☼	06/02/25 09:13	06/03/25 14:47	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		0.98	0.29	ng/g	☼	06/02/25 09:13	06/03/25 14:47	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		0.98	0.29	ng/g	☼	06/02/25 09:13	06/03/25 14:47	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.20	0.11	ng/g	☼	06/02/25 09:13	06/03/25 14:47	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.20	0.059	ng/g	☼	06/02/25 09:13	06/03/25 14:47	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.20	0.069	ng/g	☼	06/02/25 09:13	06/03/25 14:47	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.20	0.049	ng/g	☼	06/02/25 09:13	06/03/25 14:47	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.20	0.069	ng/g	☼	06/02/25 09:13	06/03/25 14:47	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.20	0.088	ng/g	☼	06/02/25 09:13	06/03/25 14:47	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.20	0.078	ng/g	☼	06/02/25 09:13	06/03/25 14:47	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.20	0.049	ng/g	☼	06/02/25 09:13	06/03/25 14:47	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.39	0.20	ng/g	☼	06/02/25 09:13	06/03/25 14:47	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		0.98	0.49	ng/g	☼	06/02/25 09:13	06/03/25 14:47	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		0.98	0.39	ng/g	☼	06/02/25 09:13	06/03/25 14:47	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	88.2		8 - 130	06/02/25 09:13	06/03/25 14:47	1
13C5-PFPeA	98.4		35 - 130	06/02/25 09:13	06/03/25 14:47	1
13C5-PFHxA	96.7		40 - 130	06/02/25 09:13	06/03/25 14:47	1
13C4-PFHpA	96.8		40 - 130	06/02/25 09:13	06/03/25 14:47	1
13C8-PFOA	92.2		40 - 130	06/02/25 09:13	06/03/25 14:47	1
13C9-PFNA	92.8		40 - 130	06/02/25 09:13	06/03/25 14:47	1
13C6-PFDA	95.5		40 - 130	06/02/25 09:13	06/03/25 14:47	1
13C7-PFUnA	103		40 - 130	06/02/25 09:13	06/03/25 14:47	1
13C2-PFTeDA	106		20 - 130	06/02/25 09:13	06/03/25 14:47	1
13C3-PFBS	93.7		40 - 135	06/02/25 09:13	06/03/25 14:47	1
13C3-PFHxS	98.1		40 - 130	06/02/25 09:13	06/03/25 14:47	1
13C8-PFOS	95.2		40 - 130	06/02/25 09:13	06/03/25 14:47	1
13C8-PFOSA	115		40 - 130	06/02/25 09:13	06/03/25 14:47	1
d3-NMeFOSAA	87.0		40 - 135	06/02/25 09:13	06/03/25 14:47	1
d5-NEtFOSAA	98.4		40 - 150	06/02/25 09:13	06/03/25 14:47	1
13C2 4:2 FTS	119		40 - 165	06/02/25 09:13	06/03/25 14:47	1
13C2 6:2 FTS	136		40 - 215	06/02/25 09:13	06/03/25 14:47	1
13C2 8:2 FTS	110		40 - 275	06/02/25 09:13	06/03/25 14:47	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-2

Lab Sample ID: 480-229745-4

Date Collected: 05/28/25 09:15

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 85.4

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3-HFPO-DA	98.4		40 - 130	06/02/25 09:13	06/03/25 14:47	1
D7-NMeFOSE	95.3		20 - 130	06/02/25 09:13	06/03/25 14:47	1
D9-NEtFOSE	93.4		15 - 130	06/02/25 09:13	06/03/25 14:47	1
d5-NEtPFOSA	85.4		10 - 130	06/02/25 09:13	06/03/25 14:47	1
d3-NMePFOSA	90.4		10 - 130	06/02/25 09:13	06/03/25 14:47	1
13C2 PFDoA	93.2		40 - 130	06/02/25 09:13	06/03/25 14:47	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	19100		11.2	9.6	mg/Kg	☆	05/29/25 15:23	05/30/25 21:43	1
Antimony	ND		16.8	0.59	mg/Kg	☆	05/29/25 15:23	05/30/25 21:43	1
Arsenic	5.9		2.2	0.98	mg/Kg	☆	05/29/25 15:23	05/30/25 21:43	1
Barium	105		0.56	0.16	mg/Kg	☆	05/29/25 15:23	05/30/25 21:43	1
Beryllium	0.82	^5- B	0.22	0.045	mg/Kg	☆	05/29/25 15:23	05/30/25 21:43	1
Cadmium	0.25		0.22	0.078	mg/Kg	☆	05/29/25 15:23	05/30/25 21:43	1
Calcium	1830	^5-	55.9	30.2	mg/Kg	☆	05/29/25 15:23	05/30/25 21:43	1
Chromium	19.1		0.56	0.40	mg/Kg	☆	05/29/25 15:23	05/30/25 21:43	1
Cobalt	11.2		0.56	0.11	mg/Kg	☆	05/29/25 15:23	05/30/25 21:43	1
Copper	34.7		1.1	0.64	mg/Kg	☆	05/29/25 15:23	05/30/25 21:43	1
Iron	21400	^2 ^+	11.2	9.5	mg/Kg	☆	05/29/25 15:23	05/30/25 21:43	1
Lead	12.1		1.1	0.51	mg/Kg	☆	05/29/25 15:23	05/30/25 21:43	1
Magnesium	3940		22.4	9.5	mg/Kg	☆	05/29/25 15:23	05/30/25 21:43	1
Manganese	164	^5-	1.1	0.31	mg/Kg	☆	05/29/25 15:23	05/30/25 21:43	1
Nickel	46.4	^5-	5.6	0.28	mg/Kg	☆	05/29/25 15:23	05/30/25 21:43	1
Potassium	2620		33.5	27.1	mg/Kg	☆	05/29/25 15:23	05/30/25 21:43	1
Selenium	1.0	J	4.5	0.89	mg/Kg	☆	05/29/25 15:23	05/30/25 21:43	1
Silver	ND	^5-	0.67	0.22	mg/Kg	☆	05/29/25 15:23	06/04/25 18:53	1
Sodium	120	J	157	68.5	mg/Kg	☆	05/29/25 15:23	06/04/25 18:53	1
Thallium	ND		6.7	0.85	mg/Kg	☆	05/29/25 15:23	05/30/25 21:43	1
Vanadium	24.2		0.56	0.15	mg/Kg	☆	05/29/25 15:23	05/30/25 21:43	1
Zinc	77.4	^5-	2.2	1.1	mg/Kg	☆	05/29/25 15:23	05/30/25 21:43	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.025	0.0056	mg/Kg	☆	05/30/25 13:38	05/30/25 15:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		1.1	0.54	mg/Kg	☆	06/04/25 12:18	06/04/25 16:25	1

Client Sample ID: RI-MW-3

Lab Sample ID: 480-229745-5

Date Collected: 05/28/25 09:30

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 92.6

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.3	0.39	ug/Kg	☆	05/29/25 18:02	05/29/25 23:51	1
1,1,2,2-Tetrachloroethane	ND	vs	5.3	0.86	ug/Kg	☆	05/29/25 18:02	05/29/25 23:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.3	1.2	ug/Kg	☆	05/29/25 18:02	05/29/25 23:51	1
1,1,2-Trichloroethane	ND	vs	5.3	0.69	ug/Kg	☆	05/29/25 18:02	05/29/25 23:51	1
1,1-Dichloroethane	ND	vs	5.3	0.65	ug/Kg	☆	05/29/25 18:02	05/29/25 23:51	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-3

Lab Sample ID: 480-229745-5

Date Collected: 05/28/25 09:30

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 92.6

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND	vs	5.3	0.65	ug/Kg	✱	05/29/25 18:02	05/29/25 23:51	1
1,2,4-Trichlorobenzene	ND	vs	5.3	0.32	ug/Kg	✱	05/29/25 18:02	05/29/25 23:51	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.3	2.7	ug/Kg	✱	05/29/25 18:02	05/29/25 23:51	1
1,2-Dichlorobenzene	ND	vs	5.3	0.42	ug/Kg	✱	05/29/25 18:02	05/29/25 23:51	1
1,2-Dichloroethane	ND	vs	5.3	0.27	ug/Kg	✱	05/29/25 18:02	05/29/25 23:51	1
1,2-Dichloropropane	ND	vs	5.3	2.7	ug/Kg	✱	05/29/25 18:02	05/29/25 23:51	1
1,3-Dichlorobenzene	ND	vs	5.3	0.27	ug/Kg	✱	05/29/25 18:02	05/29/25 23:51	1
1,4-Dichlorobenzene	ND	vs	5.3	0.74	ug/Kg	✱	05/29/25 18:02	05/29/25 23:51	1
2-Butanone (MEK)	ND	vs	27	1.9	ug/Kg	✱	05/29/25 18:02	05/29/25 23:51	1
2-Hexanone	ND	vs	27	2.7	ug/Kg	✱	05/29/25 18:02	05/29/25 23:51	1
4-Methyl-2-pentanone (MIBK)	ND	vs	27	1.7	ug/Kg	✱	05/29/25 18:02	05/29/25 23:51	1
Acetone	6.0	J vs	27	4.5	ug/Kg	✱	05/29/25 18:02	05/29/25 23:51	1
Benzene	ND	vs	5.3	0.26	ug/Kg	✱	05/29/25 18:02	05/29/25 23:51	1
Bromoform	ND	vs	5.3	2.7	ug/Kg	✱	05/29/25 18:02	05/29/25 23:51	1
Bromomethane	ND	vs	5.3	0.48	ug/Kg	✱	05/29/25 18:02	05/29/25 23:51	1
Carbon disulfide	ND	vs	5.3	2.7	ug/Kg	✱	05/29/25 18:02	05/29/25 23:51	1
Carbon tetrachloride	ND	vs	5.3	0.51	ug/Kg	✱	05/29/25 18:02	05/29/25 23:51	1
Chlorobenzene	ND	vs	5.3	0.70	ug/Kg	✱	05/29/25 18:02	05/29/25 23:51	1
Dibromochloromethane	ND	vs	5.3	0.68	ug/Kg	✱	05/29/25 18:02	05/29/25 23:51	1
Chloroethane	ND	vs	5.3	1.2	ug/Kg	✱	05/29/25 18:02	05/29/25 23:51	1
Chloroform	0.51	J B vs	5.3	0.33	ug/Kg	✱	05/29/25 18:02	05/29/25 23:51	1
Chloromethane	ND	vs	5.3	0.32	ug/Kg	✱	05/29/25 18:02	05/29/25 23:51	1
cis-1,2-Dichloroethene	ND	vs	5.3	0.68	ug/Kg	✱	05/29/25 18:02	05/29/25 23:51	1
Cyclohexane	ND	vs	5.3	0.74	ug/Kg	✱	05/29/25 18:02	05/29/25 23:51	1
Bromodichloromethane	ND	vs	5.3	0.71	ug/Kg	✱	05/29/25 18:02	05/29/25 23:51	1
Dichlorodifluoromethane	ND	vs	5.3	0.44	ug/Kg	✱	05/29/25 18:02	05/29/25 23:51	1
Ethylbenzene	ND	vs	5.3	0.37	ug/Kg	✱	05/29/25 18:02	05/29/25 23:51	1
1,2-Dibromoethane	ND	vs	5.3	0.68	ug/Kg	✱	05/29/25 18:02	05/29/25 23:51	1
Isopropylbenzene	ND	vs	5.3	0.80	ug/Kg	✱	05/29/25 18:02	05/29/25 23:51	1
Methyl acetate	ND	vs	27	3.2	ug/Kg	✱	05/29/25 18:02	05/29/25 23:51	1
Methyl tert-butyl ether	ND	vs	5.3	0.52	ug/Kg	✱	05/29/25 18:02	05/29/25 23:51	1
Methylcyclohexane	ND	vs	5.3	0.81	ug/Kg	✱	05/29/25 18:02	05/29/25 23:51	1
Methylene Chloride	ND	vs	5.3	2.4	ug/Kg	✱	05/29/25 18:02	05/29/25 23:51	1
Tetrachloroethene	ND	vs	5.3	0.71	ug/Kg	✱	05/29/25 18:02	05/29/25 23:51	1
Toluene	ND	vs	5.3	0.40	ug/Kg	✱	05/29/25 18:02	05/29/25 23:51	1
trans-1,2-Dichloroethene	ND	vs	5.3	0.55	ug/Kg	✱	05/29/25 18:02	05/29/25 23:51	1
trans-1,3-Dichloropropene	ND	vs	5.3	2.3	ug/Kg	✱	05/29/25 18:02	05/29/25 23:51	1
Trichloroethene	ND	vs	5.3	1.2	ug/Kg	✱	05/29/25 18:02	05/29/25 23:51	1
Trichlorofluoromethane	ND	vs	5.3	0.50	ug/Kg	✱	05/29/25 18:02	05/29/25 23:51	1
Vinyl chloride	ND	vs	5.3	0.65	ug/Kg	✱	05/29/25 18:02	05/29/25 23:51	1
Xylenes, Total	ND	vs	11	0.89	ug/Kg	✱	05/29/25 18:02	05/29/25 23:51	1
cis-1,3-Dichloropropene	ND	vs	5.3	0.76	ug/Kg	✱	05/29/25 18:02	05/29/25 23:51	1
Styrene	ND	vs	5.3	0.27	ug/Kg	✱	05/29/25 18:02	05/29/25 23:51	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	✱		N/A	05/29/25 18:02	05/29/25 23:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		64 - 126	05/29/25 18:02	05/29/25 23:51	1
4-Bromofluorobenzene (Surr)	106		72 - 126	05/29/25 18:02	05/29/25 23:51	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-3

Lab Sample ID: 480-229745-5

Date Collected: 05/28/25 09:30

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 92.6

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	89		71 - 125	05/29/25 18:02	05/29/25 23:51	1
Dibromofluoromethane (Surr)	105		60 - 140	05/29/25 18:02	05/29/25 23:51	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		110	40	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1
2,4,5-Trichlorophenol	ND		180	37	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1
2,4,6-Trichlorophenol	ND		180	28	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1
2,4-Dichlorophenol	ND		180	36	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1
2,4-Dimethylphenol	ND		180	38	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1
2,4-Dinitrophenol	ND		1800	35	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1
2,4-Dinitrotoluene	ND		180	25	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1
2,6-Dinitrotoluene	ND		180	26	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1
2-Chloronaphthalene	ND		180	34	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1
2-Chlorophenol	ND		180	28	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1
2-Methylnaphthalene	ND		180	29	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1
2-Methylphenol	ND		180	29	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1
2-Nitroaniline	ND		350	31	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1
2-Nitrophenol	ND		180	21	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1
3,3'-Dichlorobenzidine	ND		350	53	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1
3-Nitroaniline	ND		350	26	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1
4,6-Dinitro-2-methylphenol	ND		350	40	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1
4-Bromophenyl phenyl ether	ND		180	31	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1
4-Chloro-3-methylphenol	ND		180	37	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1
4-Chloroaniline	ND		180	26	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1
4-Chlorophenyl phenyl ether	ND		180	38	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1
4-Methylphenol	ND		350	33	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1
4-Nitroaniline	ND		350	27	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1
4-Nitrophenol	ND		350	50	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1
Acenaphthene	ND		180	34	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1
Acenaphthylene	ND		180	35	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1
Acetophenone	ND		180	32	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1
Anthracene	ND		180	33	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1
Atrazine	ND		180	61	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1
Benzaldehyde	ND		180	140	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1
Benzo[a]anthracene	ND		180	25	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1
Benzo[a]pyrene	ND		180	31	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1
Benzo[b]fluoranthene	ND		180	24	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1
Benzo[g,h,i]perylene	ND		180	32	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1
Benzo[k]fluoranthene	ND		180	41	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1
Biphenyl	ND		180	34	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1
bis (2-chloroisopropyl) ether	ND		180	37	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1
Bis(2-chloroethoxy)methane	ND		180	35	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1
Bis(2-chloroethyl)ether	ND		180	34	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1
Bis(2-ethylhexyl) phthalate	ND		180	39	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1
Butyl benzyl phthalate	ND		180	33	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1
Caprolactam	ND		180	42	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1
Carbazole	ND		180	36	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1
Chrysene	ND		180	44	ug/Kg	✱	05/29/25 13:56	05/30/25 21:01	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-3

Lab Sample ID: 480-229745-5

Date Collected: 05/28/25 09:30

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 92.6

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		180	37	ug/Kg	☼	05/29/25 13:56	05/30/25 21:01	1
Dibenzofuran	ND		180	32	ug/Kg	☼	05/29/25 13:56	05/30/25 21:01	1
Diethyl phthalate	ND		180	33	ug/Kg	☼	05/29/25 13:56	05/30/25 21:01	1
Dimethyl phthalate	ND		180	35	ug/Kg	☼	05/29/25 13:56	05/30/25 21:01	1
Di-n-butyl phthalate	ND		180	41	ug/Kg	☼	05/29/25 13:56	05/30/25 21:01	1
Di-n-octyl phthalate	ND		180	35	ug/Kg	☼	05/29/25 13:56	05/30/25 21:01	1
Fluoranthene	ND		180	33	ug/Kg	☼	05/29/25 13:56	05/30/25 21:01	1
Fluorene	ND		180	33	ug/Kg	☼	05/29/25 13:56	05/30/25 21:01	1
Hexachlorobenzene	ND		180	35	ug/Kg	☼	05/29/25 13:56	05/30/25 21:01	1
Hexachlorobutadiene	ND		180	27	ug/Kg	☼	05/29/25 13:56	05/30/25 21:01	1
Hexachlorocyclopentadiene	ND		350	79	ug/Kg	☼	05/29/25 13:56	05/30/25 21:01	1
Hexachloroethane	ND		180	33	ug/Kg	☼	05/29/25 13:56	05/30/25 21:01	1
Indeno[1,2,3-cd]pyrene	ND		180	27	ug/Kg	☼	05/29/25 13:56	05/30/25 21:01	1
Isophorone	ND		180	37	ug/Kg	☼	05/29/25 13:56	05/30/25 21:01	1
Naphthalene	ND		180	30	ug/Kg	☼	05/29/25 13:56	05/30/25 21:01	1
Nitrobenzene	ND		180	30	ug/Kg	☼	05/29/25 13:56	05/30/25 21:01	1
N-Nitrosodi-n-propylamine	ND		180	41	ug/Kg	☼	05/29/25 13:56	05/30/25 21:01	1
N-Nitrosodiphenylamine	ND		180	30	ug/Kg	☼	05/29/25 13:56	05/30/25 21:01	1
Pentachlorophenol	ND		350	58	ug/Kg	☼	05/29/25 13:56	05/30/25 21:01	1
Phenanthrene	36	J	180	34	ug/Kg	☼	05/29/25 13:56	05/30/25 21:01	1
Phenol	ND		180	33	ug/Kg	☼	05/29/25 13:56	05/30/25 21:01	1
Pyrene	ND		180	34	ug/Kg	☼	05/29/25 13:56	05/30/25 21:01	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	4400	T J	ug/Kg	☼	1.93	N/A	05/29/25 13:56	05/30/25 21:01	1
Unknown	1800	T J	ug/Kg	☼	3.35	N/A	05/29/25 13:56	05/30/25 21:01	1
Undecane	1200	T J N	ug/Kg	☼	6.41	1120-21-4	05/29/25 13:56	05/30/25 21:01	1
Dodecane	1800	T J N	ug/Kg	☼	7.23	112-40-3	05/29/25 13:56	05/30/25 21:01	1
Unknown	1200	T J	ug/Kg	☼	7.75	N/A	05/29/25 13:56	05/30/25 21:01	1
Tridecane	2400	T J N	ug/Kg	☼	7.96	629-50-5	05/29/25 13:56	05/30/25 21:01	1
Tetradecane	1700	T J N	ug/Kg	☼	8.63	629-59-4	05/29/25 13:56	05/30/25 21:01	1
Pentadecane	1400	T J N	ug/Kg	☼	9.83	629-62-9	05/29/25 13:56	05/30/25 21:01	1
Pentadecane, 2,6,10-trimethyl-	2300	T J N	ug/Kg	☼	10.08	3892-00-0	05/29/25 13:56	05/30/25 21:01	1
Heptadecane	3200	T J N	ug/Kg	☼	10.35	629-78-7	05/29/25 13:56	05/30/25 21:01	1
Pentadecane, 2,6,10,14-tetramethyl-	3100	T J N	ug/Kg	☼	10.37	1921-70-6	05/29/25 13:56	05/30/25 21:01	1
Octadecane	2500	T J N	ug/Kg	☼	10.82	593-45-3	05/29/25 13:56	05/30/25 21:01	1
Heptadecane, 2,6,10,15-tetramethyl-	1500	T J N	ug/Kg	☼	10.85	54833-48-6	05/29/25 13:56	05/30/25 21:01	1
Nonadecane	2100	T J N	ug/Kg	☼	11.24	629-92-5	05/29/25 13:56	05/30/25 21:01	1
Eicosane	2100	T J N	ug/Kg	☼	11.62	112-95-8	05/29/25 13:56	05/30/25 21:01	1
Heneicosane	1900	T J N	ug/Kg	☼	11.97	629-94-7	05/29/25 13:56	05/30/25 21:01	1
Tricosane	1200	T J N	ug/Kg	☼	12.60	638-67-5	05/29/25 13:56	05/30/25 21:01	1
Hexadecane	1100	T J N	ug/Kg	☼	12.89	544-76-3	05/29/25 13:56	05/30/25 21:01	1
Eicosane, 10-methyl-	1100	T J N	ug/Kg	☼	13.17	54833-23-7	05/29/25 13:56	05/30/25 21:01	1
Hexacosane	1100	T J N	ug/Kg	☼	13.44	630-01-3	05/29/25 13:56	05/30/25 21:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	63		10 - 140	05/29/25 13:56	05/30/25 21:01	1
2-Fluorobiphenyl (Surr)	67		29 - 120	05/29/25 13:56	05/30/25 21:01	1
2-Fluorophenol (Surr)	54		18 - 120	05/29/25 13:56	05/30/25 21:01	1
Nitrobenzene-d5 (Surr)	60		22 - 120	05/29/25 13:56	05/30/25 21:01	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-3

Lab Sample ID: 480-229745-5

Date Collected: 05/28/25 09:30

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 92.6

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5 (Surr)	56		23 - 120	05/29/25 13:56	05/30/25 21:01	1
p-Terphenyl-d14 (Surr)	70		28 - 124	05/29/25 13:56	05/30/25 21:01	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		3.6	0.69	ug/Kg	✱	05/30/25 13:55	06/02/25 14:41	1
4,4'-DDE	ND		3.6	0.75	ug/Kg	✱	05/30/25 13:55	06/02/25 14:41	1
4,4'-DDT	ND		3.6	0.83	ug/Kg	✱	05/30/25 13:55	06/02/25 14:41	1
beta-BHC	0.97	J	3.6	0.64	ug/Kg	✱	05/30/25 13:55	06/02/25 14:41	1
cis-Chlordane	ND		3.6	1.8	ug/Kg	✱	05/30/25 13:55	06/02/25 14:41	1
alpha-BHC	0.81	J	3.6	0.64	ug/Kg	✱	05/30/25 13:55	06/02/25 14:41	1
Aldrin	ND		3.6	0.88	ug/Kg	✱	05/30/25 13:55	06/02/25 14:41	1
delta-BHC	ND		3.6	0.66	ug/Kg	✱	05/30/25 13:55	06/02/25 14:41	1
Dieldrin	ND		3.6	0.85	ug/Kg	✱	05/30/25 13:55	06/02/25 14:41	1
Endosulfan I	ND		3.6	0.68	ug/Kg	✱	05/30/25 13:55	06/02/25 14:41	1
Endosulfan II	ND		3.6	0.64	ug/Kg	✱	05/30/25 13:55	06/02/25 14:41	1
Endosulfan sulfate	ND		3.6	0.66	ug/Kg	✱	05/30/25 13:55	06/02/25 14:41	1
Endrin	ND		3.6	0.70	ug/Kg	✱	05/30/25 13:55	06/02/25 14:41	1
Endrin aldehyde	ND		3.6	0.91	ug/Kg	✱	05/30/25 13:55	06/02/25 14:41	1
Endrin ketone	1.1	J	3.6	0.88	ug/Kg	✱	05/30/25 13:55	06/02/25 14:41	1
gamma-BHC (Lindane)	ND		3.6	0.65	ug/Kg	✱	05/30/25 13:55	06/02/25 14:41	1
trans-Chlordane	ND		3.6	1.1	ug/Kg	✱	05/30/25 13:55	06/02/25 14:41	1
Heptachlor	ND		3.6	0.77	ug/Kg	✱	05/30/25 13:55	06/02/25 14:41	1
Heptachlor epoxide	ND		3.6	0.92	ug/Kg	✱	05/30/25 13:55	06/02/25 14:41	1
Methoxychlor	ND		3.6	0.73	ug/Kg	✱	05/30/25 13:55	06/02/25 14:41	1
Toxaphene	ND		36	21	ug/Kg	✱	05/30/25 13:55	06/02/25 14:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	29	S1-	45 - 120	05/30/25 13:55	06/02/25 14:41	1
DCB Decachlorobiphenyl	29	S1-	45 - 120	05/30/25 13:55	06/02/25 14:41	1
Tetrachloro-m-xylene	45		30 - 124	05/30/25 13:55	06/02/25 14:41	1
Tetrachloro-m-xylene	45		30 - 124	05/30/25 13:55	06/02/25 14:41	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25	0.049	mg/Kg	✱	05/30/25 13:30	06/02/25 15:52	1
PCB-1221	ND		0.25	0.049	mg/Kg	✱	05/30/25 13:30	06/02/25 15:52	1
PCB-1232	ND		0.25	0.049	mg/Kg	✱	05/30/25 13:30	06/02/25 15:52	1
PCB-1242	ND		0.25	0.049	mg/Kg	✱	05/30/25 13:30	06/02/25 15:52	1
PCB-1248	ND		0.25	0.049	mg/Kg	✱	05/30/25 13:30	06/02/25 15:52	1
PCB-1254	ND		0.25	0.12	mg/Kg	✱	05/30/25 13:30	06/02/25 15:52	1
PCB-1260	ND		0.25	0.12	mg/Kg	✱	05/30/25 13:30	06/02/25 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	119		60 - 154	05/30/25 13:30	06/02/25 15:52	1
Tetrachloro-m-xylene	108		60 - 154	05/30/25 13:30	06/02/25 15:52	1
DCB Decachlorobiphenyl	131		65 - 174	05/30/25 13:30	06/02/25 15:52	1
DCB Decachlorobiphenyl	124		65 - 174	05/30/25 13:30	06/02/25 15:52	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-3

Lab Sample ID: 480-229745-5

Date Collected: 05/28/25 09:30

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 92.6

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.39	0.13	ng/g	✱	06/02/25 09:13	06/03/25 15:01	1
Perfluoropentanoic acid (PFPeA)	ND		0.20	0.049	ng/g	✱	06/02/25 09:13	06/03/25 15:01	1
Perfluorohexanoic acid (PFHxA)	ND		0.20	0.059	ng/g	✱	06/02/25 09:13	06/03/25 15:01	1
Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.069	ng/g	✱	06/02/25 09:13	06/03/25 15:01	1
Perfluorooctanoic acid (PFOA)	ND		0.20	0.059	ng/g	✱	06/02/25 09:13	06/03/25 15:01	1
Perfluorononanoic acid (PFNA)	ND		0.20	0.059	ng/g	✱	06/02/25 09:13	06/03/25 15:01	1
Perfluorodecanoic acid (PFDA)	ND		0.20	0.049	ng/g	✱	06/02/25 09:13	06/03/25 15:01	1
Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.049	ng/g	✱	06/02/25 09:13	06/03/25 15:01	1
Perfluorododecanoic acid (PFDoA)	ND		0.20	0.049	ng/g	✱	06/02/25 09:13	06/03/25 15:01	1
Perfluorotridecanoic acid (PFTriDA)	ND		0.20	0.069	ng/g	✱	06/02/25 09:13	06/03/25 15:01	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.20	0.069	ng/g	✱	06/02/25 09:13	06/03/25 15:01	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.069	ng/g	✱	06/02/25 09:13	06/03/25 15:01	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.20	0.059	ng/g	✱	06/02/25 09:13	06/03/25 15:01	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.049	ng/g	✱	06/02/25 09:13	06/03/25 15:01	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.069	ng/g	✱	06/02/25 09:13	06/03/25 15:01	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.20	0.11	ng/g	✱	06/02/25 09:13	06/03/25 15:01	1
Perfluorononanesulfonic acid (PFNS)	ND		0.20	0.069	ng/g	✱	06/02/25 09:13	06/03/25 15:01	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.049	ng/g	✱	06/02/25 09:13	06/03/25 15:01	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.059	ng/g	✱	06/02/25 09:13	06/03/25 15:01	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.39	0.099	ng/g	✱	06/02/25 09:13	06/03/25 15:01	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.39	0.13	ng/g	✱	06/02/25 09:13	06/03/25 15:01	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.39	0.13	ng/g	✱	06/02/25 09:13	06/03/25 15:01	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.089	ng/g	✱	06/02/25 09:13	06/03/25 15:01	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.20	0.089	ng/g	✱	06/02/25 09:13	06/03/25 15:01	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.20	0.099	ng/g	✱	06/02/25 09:13	06/03/25 15:01	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.20	0.079	ng/g	✱	06/02/25 09:13	06/03/25 15:01	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.20	0.11	ng/g	✱	06/02/25 09:13	06/03/25 15:01	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		0.99	0.30	ng/g	✱	06/02/25 09:13	06/03/25 15:01	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		0.99	0.30	ng/g	✱	06/02/25 09:13	06/03/25 15:01	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.20	0.11	ng/g	✱	06/02/25 09:13	06/03/25 15:01	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.20	0.059	ng/g	✱	06/02/25 09:13	06/03/25 15:01	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.20	0.069	ng/g	✱	06/02/25 09:13	06/03/25 15:01	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.20	0.049	ng/g	✱	06/02/25 09:13	06/03/25 15:01	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.20	0.069	ng/g	✱	06/02/25 09:13	06/03/25 15:01	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	ND		0.20	0.089	ng/g	✱	06/02/25 09:13	06/03/25 15:01	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-3

Lab Sample ID: 480-229745-5

Date Collected: 05/28/25 09:30

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 92.6

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.20	0.079	ng/g	☼	06/02/25 09:13	06/03/25 15:01	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	ND		0.20	0.049	ng/g	☼	06/02/25 09:13	06/03/25 15:01	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.39	0.20	ng/g	☼	06/02/25 09:13	06/03/25 15:01	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		0.99	0.49	ng/g	☼	06/02/25 09:13	06/03/25 15:01	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		0.99	0.39	ng/g	☼	06/02/25 09:13	06/03/25 15:01	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4-PFBA	90.4		8 - 130				06/02/25 09:13	06/03/25 15:01	1
13C5-PFPeA	95.6		35 - 130				06/02/25 09:13	06/03/25 15:01	1
13C5-PFHxA	92.8		40 - 130				06/02/25 09:13	06/03/25 15:01	1
13C4-PFHpA	92.4		40 - 130				06/02/25 09:13	06/03/25 15:01	1
13C8-PFOA	93.8		40 - 130				06/02/25 09:13	06/03/25 15:01	1
13C9-PFNA	91.8		40 - 130				06/02/25 09:13	06/03/25 15:01	1
13C6-PFDA	94.7		40 - 130				06/02/25 09:13	06/03/25 15:01	1
13C7-PFUnA	104		40 - 130				06/02/25 09:13	06/03/25 15:01	1
13C2-PFTeDA	112		20 - 130				06/02/25 09:13	06/03/25 15:01	1
13C3-PFBS	83.3		40 - 135				06/02/25 09:13	06/03/25 15:01	1
13C3-PFHxS	92.4		40 - 130				06/02/25 09:13	06/03/25 15:01	1
13C8-PFOS	90.0		40 - 130				06/02/25 09:13	06/03/25 15:01	1
13C8-PFOSA	113		40 - 130				06/02/25 09:13	06/03/25 15:01	1
d3-NMeFOSAA	90.9		40 - 135				06/02/25 09:13	06/03/25 15:01	1
d5-NEtFOSAA	95.9		40 - 150				06/02/25 09:13	06/03/25 15:01	1
13C2 4:2 FTS	102		40 - 165				06/02/25 09:13	06/03/25 15:01	1
13C2 6:2 FTS	121		40 - 215				06/02/25 09:13	06/03/25 15:01	1
13C2 8:2 FTS	101		40 - 275				06/02/25 09:13	06/03/25 15:01	1
13C3-HFPO-DA	96.7		40 - 130				06/02/25 09:13	06/03/25 15:01	1
D7-NMeFOSE	95.1		20 - 130				06/02/25 09:13	06/03/25 15:01	1
D9-NEtFOSE	92.1		15 - 130				06/02/25 09:13	06/03/25 15:01	1
d5-NEtPFOSA	85.0		10 - 130				06/02/25 09:13	06/03/25 15:01	1
d3-NMePFOSA	89.0		10 - 130				06/02/25 09:13	06/03/25 15:01	1
13C2 PFDaA	92.0		40 - 130				06/02/25 09:13	06/03/25 15:01	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12000		11.0	9.5	mg/Kg	☼	05/29/25 15:23	05/30/25 21:45	1
Antimony	0.85	J	16.5	0.58	mg/Kg	☼	05/29/25 15:23	05/30/25 21:45	1
Arsenic	12.2		2.2	0.97	mg/Kg	☼	05/29/25 15:23	05/30/25 21:45	1
Barium	56.4		0.55	0.15	mg/Kg	☼	05/29/25 15:23	05/30/25 21:45	1
Beryllium	0.74	^5- B	0.22	0.044	mg/Kg	☼	05/29/25 15:23	05/30/25 21:45	1
Cadmium	0.35		0.22	0.077	mg/Kg	☼	05/29/25 15:23	05/30/25 21:45	1
Calcium	3880	^5-	55.0	29.7	mg/Kg	☼	05/29/25 15:23	05/30/25 21:45	1
Chromium	17.1		0.55	0.40	mg/Kg	☼	05/29/25 15:23	05/30/25 21:45	1
Cobalt	16.2		0.55	0.11	mg/Kg	☼	05/29/25 15:23	05/30/25 21:45	1
Copper	46.9		1.1	0.63	mg/Kg	☼	05/29/25 15:23	05/30/25 21:45	1
Iron	31600	^2 ^+	11.0	9.3	mg/Kg	☼	05/29/25 15:23	05/30/25 21:45	1
Lead	23.1		1.1	0.51	mg/Kg	☼	05/29/25 15:23	05/30/25 21:45	1
Magnesium	5430		22.0	9.3	mg/Kg	☼	05/29/25 15:23	05/30/25 21:45	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-3

Lab Sample ID: 480-229745-5

Date Collected: 05/28/25 09:30

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 92.6

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	247	B	1.1	0.31	mg/Kg	✱	05/29/25 15:23	06/04/25 18:54	1
Nickel	42.3	^5-	5.5	0.28	mg/Kg	✱	05/29/25 15:23	05/30/25 21:45	1
Potassium	2650		33.0	26.7	mg/Kg	✱	05/29/25 15:23	05/30/25 21:45	1
Selenium	1.2	J	4.4	0.88	mg/Kg	✱	05/29/25 15:23	05/30/25 21:45	1
Silver	ND	^5-	0.66	0.22	mg/Kg	✱	05/29/25 15:23	06/04/25 18:54	1
Sodium	118	J	154	67.5	mg/Kg	✱	05/29/25 15:23	06/04/25 18:54	1
Thallium	0.86	J	6.6	0.84	mg/Kg	✱	05/29/25 15:23	05/30/25 21:45	1
Vanadium	19.7		0.55	0.14	mg/Kg	✱	05/29/25 15:23	05/30/25 21:45	1
Zinc	69.3	^5-	2.2	1.1	mg/Kg	✱	05/29/25 15:23	05/30/25 21:45	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.021	0.0048	mg/Kg	✱	05/30/25 13:38	05/30/25 15:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		1.0	0.48	mg/Kg	✱	06/04/25 12:18	06/04/25 16:25	1

Client Sample ID: RI-MW-3-DUP

Lab Sample ID: 480-229745-6

Date Collected: 05/28/25 09:45

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 93.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.3	0.38	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
1,1,2,2-Tetrachloroethane	ND	vs	5.3	0.86	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.3	1.2	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
1,1,2-Trichloroethane	ND	vs	5.3	0.69	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
1,1-Dichloroethane	ND	vs	5.3	0.65	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
1,1-Dichloroethene	ND	vs	5.3	0.65	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
1,2,4-Trichlorobenzene	ND	vs	5.3	0.32	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.3	2.6	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
1,2-Dichlorobenzene	ND	vs	5.3	0.41	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
1,2-Dichloroethane	ND	vs	5.3	0.27	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
1,2-Dichloropropane	ND	vs	5.3	2.6	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
1,3-Dichlorobenzene	ND	vs	5.3	0.27	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
1,4-Dichlorobenzene	ND	vs	5.3	0.74	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
2-Butanone (MEK)	ND	vs	26	1.9	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
2-Hexanone	ND	vs	26	2.6	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
4-Methyl-2-pentanone (MIBK)	ND	vs	26	1.7	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
Acetone	10	J vs	26	4.5	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
Benzene	ND	vs	5.3	0.26	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
Bromoform	ND	vs	5.3	2.6	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
Bromomethane	ND	vs	5.3	0.48	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
Carbon disulfide	ND	vs	5.3	2.6	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
Carbon tetrachloride	ND	vs	5.3	0.51	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
Chlorobenzene	ND	vs	5.3	0.70	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
Dibromochloromethane	ND	vs	5.3	0.68	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
Chloroethane	ND	vs	5.3	1.2	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
Chloroform	0.49	J B vs	5.3	0.33	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-3-DUP

Lab Sample ID: 480-229745-6

Date Collected: 05/28/25 09:45

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 93.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	vs	5.3	0.32	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
cis-1,2-Dichloroethene	ND	vs	5.3	0.68	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
Cyclohexane	0.75	J vs	5.3	0.74	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
Bromodichloromethane	ND	vs	5.3	0.71	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
Dichlorodifluoromethane	ND	vs	5.3	0.44	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
Ethylbenzene	ND	vs	5.3	0.37	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
1,2-Dibromoethane	ND	vs	5.3	0.68	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
Isopropylbenzene	ND	vs	5.3	0.80	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
Methyl acetate	ND	vs	26	3.2	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
Methyl tert-butyl ether	ND	vs	5.3	0.52	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
Methylcyclohexane	2.5	J vs	5.3	0.80	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
Methylene Chloride	ND	vs	5.3	2.4	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
Tetrachloroethene	ND	vs	5.3	0.71	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
Toluene	ND	vs	5.3	0.40	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
trans-1,2-Dichloroethene	ND	vs	5.3	0.55	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
trans-1,3-Dichloropropene	ND	vs	5.3	2.3	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
Trichloroethene	ND	vs	5.3	1.2	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
Trichlorofluoromethane	ND	vs	5.3	0.50	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
Vinyl chloride	ND	vs	5.3	0.65	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
Xylenes, Total	ND	vs	11	0.89	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
cis-1,3-Dichloropropene	ND	vs	5.3	0.76	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1
Styrene	ND	vs	5.3	0.26	ug/Kg	✱	05/29/25 18:02	05/30/25 00:14	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	✱		N/A	05/29/25 18:02	05/30/25 00:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		64 - 126	05/29/25 18:02	05/30/25 00:14	1
4-Bromofluorobenzene (Surr)	107		72 - 126	05/29/25 18:02	05/30/25 00:14	1
Toluene-d8 (Surr)	90		71 - 125	05/29/25 18:02	05/30/25 00:14	1
Dibromofluoromethane (Surr)	107		60 - 140	05/29/25 18:02	05/30/25 00:14	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		110	40	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
2,4,5-Trichlorophenol	ND		180	37	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
2,4,6-Trichlorophenol	ND		180	27	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
2,4-Dichlorophenol	ND		180	35	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
2,4-Dimethylphenol	ND		180	38	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
2,4-Dinitrophenol	ND		1800	34	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
2,4-Dinitrotoluene	ND		180	25	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
2,6-Dinitrotoluene	ND		180	26	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
2-Chloronaphthalene	ND		180	34	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
2-Chlorophenol	ND		180	28	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
2-Methylnaphthalene	ND		180	28	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
2-Methylphenol	ND		180	29	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
2-Nitroaniline	ND		350	31	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
2-Nitrophenol	ND		180	20	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
3,3'-Dichlorobenzidine	ND		350	53	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
3-Nitroaniline	ND		350	25	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-3-DUP

Lab Sample ID: 480-229745-6

Date Collected: 05/28/25 09:45

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 93.2

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		350	40	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
4-Bromophenyl phenyl ether	ND		180	31	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
4-Chloro-3-methylphenol	ND		180	37	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
4-Chloroaniline	ND		180	26	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
4-Chlorophenyl phenyl ether	ND		180	38	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
4-Methylphenol	ND		350	32	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
4-Nitroaniline	ND		350	26	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
4-Nitrophenol	ND		350	49	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
Acenaphthene	ND		180	34	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
Acenaphthylene	ND		180	35	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
Acetophenone	ND		180	32	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
Anthracene	ND		180	33	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
Atrazine	ND		180	61	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
Benzaldehyde	ND		180	140	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
Benzo[a]anthracene	ND		180	25	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
Benzo[a]pyrene	ND		180	31	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
Benzo[b]fluoranthene	ND		180	24	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
Benzo[g,h,i]perylene	ND		180	31	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
Benzo[k]fluoranthene	ND		180	40	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
Biphenyl	ND		180	34	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
bis (2-chloroisopropyl) ether	ND		180	37	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
Bis(2-chloroethoxy)methane	ND		180	35	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
Bis(2-chloroethyl)ether	ND		180	34	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
Bis(2-ethylhexyl) phthalate	ND		180	39	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
Butyl benzyl phthalate	ND		180	33	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
Caprolactam	ND		180	42	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
Carbazole	ND		180	35	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
Chrysene	ND		180	43	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
Dibenz(a,h)anthracene	ND		180	36	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
Dibenzofuran	ND		180	32	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
Diethyl phthalate	ND		180	32	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
Dimethyl phthalate	ND		180	35	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
Di-n-butyl phthalate	ND		180	40	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
Di-n-octyl phthalate	ND		180	34	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
Fluoranthene	ND		180	33	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
Fluorene	ND		180	33	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
Hexachlorobenzene	ND		180	35	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
Hexachlorobutadiene	ND		180	27	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
Hexachlorocyclopentadiene	ND		350	79	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
Hexachloroethane	ND		180	33	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
Indeno[1,2,3-cd]pyrene	ND		180	27	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
Isophorone	ND		180	37	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
Naphthalene	ND		180	30	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
Nitrobenzene	ND		180	30	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
N-Nitrosodi-n-propylamine	ND		180	40	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
N-Nitrosodiphenylamine	ND		180	30	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
Pentachlorophenol	ND		350	58	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
Phenanthrene	35 J		180	34	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1
Phenol	ND		180	33	ug/Kg	✱	05/29/25 13:56	05/30/25 21:29	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-3-DUP

Lab Sample ID: 480-229745-6

Date Collected: 05/28/25 09:45

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 93.2

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		180	34	ug/Kg	☼	05/29/25 13:56	05/30/25 21:29	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	6200	T J	ug/Kg	☼	1.93	N/A	05/29/25 13:56	05/30/25 21:29	1
Unknown	3900	T J	ug/Kg	☼	3.35	N/A	05/29/25 13:56	05/30/25 21:29	1
Undecane	800	T J N	ug/Kg	☼	6.41	1120-21-4	05/29/25 13:56	05/30/25 21:29	1
Dodecane	910	T J N	ug/Kg	☼	7.23	112-40-3	05/29/25 13:56	05/30/25 21:29	1
Unknown	1000	T J	ug/Kg	☼	7.75	N/A	05/29/25 13:56	05/30/25 21:29	1
Tridecane	1400	T J N	ug/Kg	☼	7.96	629-50-5	05/29/25 13:56	05/30/25 21:29	1
Tetradecane	1400	T J N	ug/Kg	☼	8.62	629-59-4	05/29/25 13:56	05/30/25 21:29	1
Hexadecane	1100	T J N	ug/Kg	☼	9.83	544-76-3	05/29/25 13:56	05/30/25 21:29	1
Unknown	2000	T J	ug/Kg	☼	10.08	N/A	05/29/25 13:56	05/30/25 21:29	1
Heptadecane	1900	T J N	ug/Kg	☼	10.35	629-78-7	05/29/25 13:56	05/30/25 21:29	1
Pentadecane, 2,6,10,14-tetramethyl-	3000	T J N	ug/Kg	☼	10.37	1921-70-6	05/29/25 13:56	05/30/25 21:29	1
Octadecane	1800	T J N	ug/Kg	☼	10.82	593-45-3	05/29/25 13:56	05/30/25 21:29	1
Tricosane	1500	T J N	ug/Kg	☼	10.85	638-67-5	05/29/25 13:56	05/30/25 21:29	1
Nonadecane	1500	T J N	ug/Kg	☼	11.24	629-92-5	05/29/25 13:56	05/30/25 21:29	1
Eicosane	1500	T J N	ug/Kg	☼	11.62	112-95-8	05/29/25 13:56	05/30/25 21:29	1
Heneicosane	1500	T J N	ug/Kg	☼	11.97	629-94-7	05/29/25 13:56	05/30/25 21:29	1
Octacosane	910	T J N	ug/Kg	☼	12.60	630-02-4	05/29/25 13:56	05/30/25 21:29	1
Tetracosane	910	T J N	ug/Kg	☼	12.89	646-31-1	05/29/25 13:56	05/30/25 21:29	1
Docosane	810	T J N	ug/Kg	☼	13.17	629-97-0	05/29/25 13:56	05/30/25 21:29	1
Dodecane, 2-methyl-6-propyl-	810	T J N	ug/Kg	☼	13.43	55045-08-4	05/29/25 13:56	05/30/25 21:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	70		10 - 140	05/29/25 13:56	05/30/25 21:29	1
2-Fluorobiphenyl (Surr)	78		29 - 120	05/29/25 13:56	05/30/25 21:29	1
2-Fluorophenol (Surr)	65		18 - 120	05/29/25 13:56	05/30/25 21:29	1
Nitrobenzene-d5 (Surr)	72		22 - 120	05/29/25 13:56	05/30/25 21:29	1
Phenol-d5 (Surr)	65		23 - 120	05/29/25 13:56	05/30/25 21:29	1
p-Terphenyl-d14 (Surr)	74		28 - 124	05/29/25 13:56	05/30/25 21:29	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		3.5	0.69	ug/Kg	☼	05/30/25 13:55	06/02/25 15:00	1
4,4'-DDE	ND		3.5	0.74	ug/Kg	☼	05/30/25 13:55	06/02/25 15:00	1
4,4'-DDT	ND		3.5	0.83	ug/Kg	☼	05/30/25 13:55	06/02/25 15:00	1
beta-BHC	ND		3.5	0.64	ug/Kg	☼	05/30/25 13:55	06/02/25 15:00	1
cis-Chlordane	ND		3.5	1.8	ug/Kg	☼	05/30/25 13:55	06/02/25 15:00	1
alpha-BHC	0.81	J	3.5	0.64	ug/Kg	☼	05/30/25 13:55	06/02/25 15:00	1
Aldrin	ND		3.5	0.87	ug/Kg	☼	05/30/25 13:55	06/02/25 15:00	1
delta-BHC	ND		3.5	0.66	ug/Kg	☼	05/30/25 13:55	06/02/25 15:00	1
Dieldrin	ND		3.5	0.85	ug/Kg	☼	05/30/25 13:55	06/02/25 15:00	1
Endosulfan I	ND		3.5	0.68	ug/Kg	☼	05/30/25 13:55	06/02/25 15:00	1
Endosulfan II	ND		3.5	0.64	ug/Kg	☼	05/30/25 13:55	06/02/25 15:00	1
Endosulfan sulfate	ND		3.5	0.66	ug/Kg	☼	05/30/25 13:55	06/02/25 15:00	1
Endrin	ND		3.5	0.70	ug/Kg	☼	05/30/25 13:55	06/02/25 15:00	1
Endrin aldehyde	ND		3.5	0.90	ug/Kg	☼	05/30/25 13:55	06/02/25 15:00	1
Endrin ketone	1.3	J	3.5	0.87	ug/Kg	☼	05/30/25 13:55	06/02/25 15:00	1
gamma-BHC (Lindane)	ND		3.5	0.65	ug/Kg	☼	05/30/25 13:55	06/02/25 15:00	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-3-DUP

Lab Sample ID: 480-229745-6

Date Collected: 05/28/25 09:45

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 93.2

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-Chlordane	ND		3.5	1.1	ug/Kg	✱	05/30/25 13:55	06/02/25 15:00	1
Heptachlor	ND		3.5	0.77	ug/Kg	✱	05/30/25 13:55	06/02/25 15:00	1
Heptachlor epoxide	ND		3.5	0.91	ug/Kg	✱	05/30/25 13:55	06/02/25 15:00	1
Methoxychlor	3.7		3.5	0.72	ug/Kg	✱	05/30/25 13:55	06/02/25 15:00	1
Toxaphene	ND		35	21	ug/Kg	✱	05/30/25 13:55	06/02/25 15:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	27	S1-	45 - 120	05/30/25 13:55	06/02/25 15:00	1
DCB Decachlorobiphenyl	28	S1-	45 - 120	05/30/25 13:55	06/02/25 15:00	1
Tetrachloro-m-xylene	50		30 - 124	05/30/25 13:55	06/02/25 15:00	1
Tetrachloro-m-xylene	49		30 - 124	05/30/25 13:55	06/02/25 15:00	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25	0.049	mg/Kg	✱	05/30/25 13:30	06/02/25 16:10	1
PCB-1221	ND		0.25	0.049	mg/Kg	✱	05/30/25 13:30	06/02/25 16:10	1
PCB-1232	ND		0.25	0.049	mg/Kg	✱	05/30/25 13:30	06/02/25 16:10	1
PCB-1242	ND		0.25	0.049	mg/Kg	✱	05/30/25 13:30	06/02/25 16:10	1
PCB-1248	ND		0.25	0.049	mg/Kg	✱	05/30/25 13:30	06/02/25 16:10	1
PCB-1254	ND		0.25	0.12	mg/Kg	✱	05/30/25 13:30	06/02/25 16:10	1
PCB-1260	ND		0.25	0.12	mg/Kg	✱	05/30/25 13:30	06/02/25 16:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	138		60 - 154	05/30/25 13:30	06/02/25 16:10	1
Tetrachloro-m-xylene	123		60 - 154	05/30/25 13:30	06/02/25 16:10	1
DCB Decachlorobiphenyl	146		65 - 174	05/30/25 13:30	06/02/25 16:10	1
DCB Decachlorobiphenyl	134		65 - 174	05/30/25 13:30	06/02/25 16:10	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.39	0.13	ng/g	✱	06/02/25 09:13	06/03/25 15:14	1
Perfluoropentanoic acid (PFPeA)	ND		0.19	0.048	ng/g	✱	06/02/25 09:13	06/03/25 15:14	1
Perfluorohexanoic acid (PFHxA)	ND		0.19	0.058	ng/g	✱	06/02/25 09:13	06/03/25 15:14	1
Perfluoroheptanoic acid (PFHpA)	ND		0.19	0.068	ng/g	✱	06/02/25 09:13	06/03/25 15:14	1
Perfluorooctanoic acid (PFOA)	0.083	J	0.19	0.058	ng/g	✱	06/02/25 09:13	06/03/25 15:14	1
Perfluorononanoic acid (PFNA)	ND		0.19	0.058	ng/g	✱	06/02/25 09:13	06/03/25 15:14	1
Perfluorodecanoic acid (PFDA)	ND		0.19	0.048	ng/g	✱	06/02/25 09:13	06/03/25 15:14	1
Perfluoroundecanoic acid (PFUnA)	ND		0.19	0.048	ng/g	✱	06/02/25 09:13	06/03/25 15:14	1
Perfluorododecanoic acid (PFDoA)	ND		0.19	0.048	ng/g	✱	06/02/25 09:13	06/03/25 15:14	1
Perfluorotridecanoic acid (PFTTrDA)	ND		0.19	0.068	ng/g	✱	06/02/25 09:13	06/03/25 15:14	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.19	0.068	ng/g	✱	06/02/25 09:13	06/03/25 15:14	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.19	0.068	ng/g	✱	06/02/25 09:13	06/03/25 15:14	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.19	0.058	ng/g	✱	06/02/25 09:13	06/03/25 15:14	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.19	0.048	ng/g	✱	06/02/25 09:13	06/03/25 15:14	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.19	0.068	ng/g	✱	06/02/25 09:13	06/03/25 15:14	1
Perfluorooctanesulfonic acid (PFOS)	0.13	J	0.19	0.11	ng/g	✱	06/02/25 09:13	06/03/25 15:14	1
Perfluorononanesulfonic acid (PFNS)	ND		0.19	0.068	ng/g	✱	06/02/25 09:13	06/03/25 15:14	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.19	0.048	ng/g	✱	06/02/25 09:13	06/03/25 15:14	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-3-DUP

Lab Sample ID: 480-229745-6

Date Collected: 05/28/25 09:45

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 93.2

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanesulfonic acid (PFDoS)	ND		0.19	0.058	ng/g	☼	06/02/25 09:13	06/03/25 15:14	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.39	0.097	ng/g	☼	06/02/25 09:13	06/03/25 15:14	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.39	0.13	ng/g	☼	06/02/25 09:13	06/03/25 15:14	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.39	0.13	ng/g	☼	06/02/25 09:13	06/03/25 15:14	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.19	0.087	ng/g	☼	06/02/25 09:13	06/03/25 15:14	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.19	0.087	ng/g	☼	06/02/25 09:13	06/03/25 15:14	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.19	0.097	ng/g	☼	06/02/25 09:13	06/03/25 15:14	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.19	0.077	ng/g	☼	06/02/25 09:13	06/03/25 15:14	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.19	0.11	ng/g	☼	06/02/25 09:13	06/03/25 15:14	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		0.97	0.29	ng/g	☼	06/02/25 09:13	06/03/25 15:14	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		0.97	0.29	ng/g	☼	06/02/25 09:13	06/03/25 15:14	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.19	0.11	ng/g	☼	06/02/25 09:13	06/03/25 15:14	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.19	0.058	ng/g	☼	06/02/25 09:13	06/03/25 15:14	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.19	0.068	ng/g	☼	06/02/25 09:13	06/03/25 15:14	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.19	0.048	ng/g	☼	06/02/25 09:13	06/03/25 15:14	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.19	0.068	ng/g	☼	06/02/25 09:13	06/03/25 15:14	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.19	0.087	ng/g	☼	06/02/25 09:13	06/03/25 15:14	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.19	0.077	ng/g	☼	06/02/25 09:13	06/03/25 15:14	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.19	0.048	ng/g	☼	06/02/25 09:13	06/03/25 15:14	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.39	0.19	ng/g	☼	06/02/25 09:13	06/03/25 15:14	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		0.97	0.48	ng/g	☼	06/02/25 09:13	06/03/25 15:14	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		0.97	0.39	ng/g	☼	06/02/25 09:13	06/03/25 15:14	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	65.7		8 - 130	06/02/25 09:13	06/03/25 15:14	1
13C5-PFPeA	69.1		35 - 130	06/02/25 09:13	06/03/25 15:14	1
13C5-PFHxA	69.5		40 - 130	06/02/25 09:13	06/03/25 15:14	1
13C4-PFHpA	69.7		40 - 130	06/02/25 09:13	06/03/25 15:14	1
13C8-PFOA	71.6		40 - 130	06/02/25 09:13	06/03/25 15:14	1
13C9-PFNA	73.3		40 - 130	06/02/25 09:13	06/03/25 15:14	1
13C6-PFDA	78.8		40 - 130	06/02/25 09:13	06/03/25 15:14	1
13C7-PFUnA	88.0		40 - 130	06/02/25 09:13	06/03/25 15:14	1
13C2-PFTeDA	98.2		20 - 130	06/02/25 09:13	06/03/25 15:14	1
13C3-PFBS	71.2		40 - 135	06/02/25 09:13	06/03/25 15:14	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-3-DUP

Lab Sample ID: 480-229745-6

Date Collected: 05/28/25 09:45

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 93.2

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3-PFHxS	75.4		40 - 130	06/02/25 09:13	06/03/25 15:14	1
13C8-PFOS	81.7		40 - 130	06/02/25 09:13	06/03/25 15:14	1
13C8-PFOSA	88.9		40 - 130	06/02/25 09:13	06/03/25 15:14	1
d3-NMeFOSAA	82.4		40 - 135	06/02/25 09:13	06/03/25 15:14	1
d5-NEtFOSAA	86.5		40 - 150	06/02/25 09:13	06/03/25 15:14	1
13C2 4:2 FTS	81.7		40 - 165	06/02/25 09:13	06/03/25 15:14	1
13C2 6:2 FTS	96.7		40 - 215	06/02/25 09:13	06/03/25 15:14	1
13C2 8:2 FTS	93.9		40 - 275	06/02/25 09:13	06/03/25 15:14	1
13C3-HFPO-DA	70.5		40 - 130	06/02/25 09:13	06/03/25 15:14	1
D7-NMeFOSE	88.2		20 - 130	06/02/25 09:13	06/03/25 15:14	1
D9-NEtFOSE	89.1		15 - 130	06/02/25 09:13	06/03/25 15:14	1
d5-NEtPFOSA	76.4		10 - 130	06/02/25 09:13	06/03/25 15:14	1
d3-NMePFOSA	72.0		10 - 130	06/02/25 09:13	06/03/25 15:14	1
13C2 PFDoA	81.0		40 - 130	06/02/25 09:13	06/03/25 15:14	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13400		10.6	9.1	mg/Kg	✱	05/29/25 15:23	05/30/25 21:47	1
Antimony	1.1	J	15.9	0.56	mg/Kg	✱	05/29/25 15:23	05/30/25 21:47	1
Arsenic	12.6		2.1	0.93	mg/Kg	✱	05/29/25 15:23	05/30/25 21:47	1
Barium	66.6		0.53	0.15	mg/Kg	✱	05/29/25 15:23	05/30/25 21:47	1
Beryllium	0.82	^5- B	0.21	0.042	mg/Kg	✱	05/29/25 15:23	05/30/25 21:47	1
Cadmium	0.33		0.21	0.074	mg/Kg	✱	05/29/25 15:23	05/30/25 21:47	1
Calcium	3240	^5-	53.1	28.6	mg/Kg	✱	05/29/25 15:23	05/30/25 21:47	1
Chromium	18.4		0.53	0.38	mg/Kg	✱	05/29/25 15:23	05/30/25 21:47	1
Cobalt	17.4		0.53	0.11	mg/Kg	✱	05/29/25 15:23	05/30/25 21:47	1
Copper	44.8		1.1	0.60	mg/Kg	✱	05/29/25 15:23	05/30/25 21:47	1
Iron	31600	^2 ^+	10.6	9.0	mg/Kg	✱	05/29/25 15:23	05/30/25 21:47	1
Lead	22.2		1.1	0.49	mg/Kg	✱	05/29/25 15:23	05/30/25 21:47	1
Magnesium	5630		21.2	9.0	mg/Kg	✱	05/29/25 15:23	05/30/25 21:47	1
Manganese	255	B	1.1	0.30	mg/Kg	✱	05/29/25 15:23	06/04/25 18:56	1
Nickel	43.8	^5-	5.3	0.27	mg/Kg	✱	05/29/25 15:23	05/30/25 21:47	1
Potassium	3120		31.8	25.7	mg/Kg	✱	05/29/25 15:23	05/30/25 21:47	1
Selenium	1.1	J	4.2	0.85	mg/Kg	✱	05/29/25 15:23	05/30/25 21:47	1
Silver	ND	^5-	0.64	0.21	mg/Kg	✱	05/29/25 15:23	06/04/25 18:56	1
Sodium	128	J	149	65.1	mg/Kg	✱	05/29/25 15:23	06/04/25 18:56	1
Thallium	1.0	J	6.4	0.81	mg/Kg	✱	05/29/25 15:23	05/30/25 21:47	1
Vanadium	22.8		0.53	0.14	mg/Kg	✱	05/29/25 15:23	05/30/25 21:47	1
Zinc	67.7	^5-	2.1	1.1	mg/Kg	✱	05/29/25 15:23	05/30/25 21:47	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.022	0.0051	mg/Kg	✱	05/30/25 13:38	05/30/25 15:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		1.0	0.49	mg/Kg	✱	06/04/25 12:18	06/04/25 16:26	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-4

Lab Sample ID: 480-229745-7

Date Collected: 05/28/25 10:00

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 90.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.4	0.39	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
1,1,2,2-Tetrachloroethane	ND	vs	5.4	0.87	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.4	1.2	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
1,1,2-Trichloroethane	ND	vs	5.4	0.70	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
1,1-Dichloroethane	ND	vs	5.4	0.65	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
1,1-Dichloroethene	ND	vs	5.4	0.66	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
1,2,4-Trichlorobenzene	ND	vs	5.4	0.33	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.4	2.7	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
1,2-Dichlorobenzene	ND	vs	5.4	0.42	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
1,2-Dichloroethane	ND	vs	5.4	0.27	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
1,2-Dichloropropane	ND	vs	5.4	2.7	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
1,3-Dichlorobenzene	ND	vs	5.4	0.28	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
1,4-Dichlorobenzene	ND	vs	5.4	0.75	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
2-Butanone (MEK)	ND	vs	27	2.0	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
2-Hexanone	ND	vs	27	2.7	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
4-Methyl-2-pentanone (MIBK)	ND	vs	27	1.8	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
Acetone	18	J vs	27	4.5	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
Benzene	ND	vs	5.4	0.26	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
Bromoform	ND	vs	5.4	2.7	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
Bromomethane	ND	vs	5.4	0.48	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
Carbon disulfide	ND	vs	5.4	2.7	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
Carbon tetrachloride	ND	vs	5.4	0.52	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
Chlorobenzene	ND	vs	5.4	0.71	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
Dibromochloromethane	ND	vs	5.4	0.69	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
Chloroethane	ND	vs	5.4	1.2	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
Chloroform	0.50	J B vs	5.4	0.33	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
Chloromethane	ND	vs	5.4	0.32	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
cis-1,2-Dichloroethene	ND	vs	5.4	0.69	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
Cyclohexane	ND	vs	5.4	0.75	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
Bromodichloromethane	ND	vs	5.4	0.72	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
Dichlorodifluoromethane	ND	vs	5.4	0.44	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
Ethylbenzene	ND	vs	5.4	0.37	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
1,2-Dibromoethane	ND	vs	5.4	0.69	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
Isopropylbenzene	ND	vs	5.4	0.81	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
Methyl acetate	ND	vs	27	3.2	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
Methyl tert-butyl ether	ND	vs	5.4	0.53	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
Methylcyclohexane	ND	vs	5.4	0.82	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
Methylene Chloride	ND	vs	5.4	2.5	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
Tetrachloroethene	ND	vs	5.4	0.72	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
Toluene	ND	vs	5.4	0.41	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
trans-1,2-Dichloroethene	ND	vs	5.4	0.55	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
trans-1,3-Dichloropropene	ND	vs	5.4	2.4	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
Trichloroethene	ND	vs	5.4	1.2	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
Trichlorofluoromethane	ND	vs	5.4	0.51	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
Vinyl chloride	ND	vs	5.4	0.65	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
Xylenes, Total	ND	vs	11	0.90	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
cis-1,3-Dichloropropene	ND	vs	5.4	0.77	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1
Styrene	ND	vs	5.4	0.27	ug/Kg	✱	05/29/25 18:02	05/30/25 00:37	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-4

Lab Sample ID: 480-229745-7

Date Collected: 05/28/25 10:00

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 90.2

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼		N/A	05/29/25 18:02	05/30/25 00:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		64 - 126				05/29/25 18:02	05/30/25 00:37	1
4-Bromofluorobenzene (Surr)	108		72 - 126				05/29/25 18:02	05/30/25 00:37	1
Toluene-d8 (Surr)	90		71 - 125				05/29/25 18:02	05/30/25 00:37	1
Dibromofluoromethane (Surr)	111		60 - 140				05/29/25 18:02	05/30/25 00:37	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		110	41	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
2,4,5-Trichlorophenol	ND		190	37	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
2,4,6-Trichlorophenol	ND		190	28	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
2,4-Dichlorophenol	ND		190	36	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
2,4-Dimethylphenol	ND		190	39	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
2,4-Dinitrophenol	ND		1800	35	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
2,4-Dinitrotoluene	ND		190	25	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
2,6-Dinitrotoluene	ND		190	26	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
2-Chloronaphthalene	ND		190	34	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
2-Chlorophenol	ND		190	29	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
2-Methylnaphthalene	ND		190	29	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
2-Methylphenol	ND		190	30	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
2-Nitroaniline	ND		360	31	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
2-Nitrophenol	ND		190	21	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
3,3'-Dichlorobenzidine	ND		360	54	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
3-Nitroaniline	ND		360	26	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
4,6-Dinitro-2-methylphenol	ND		360	40	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
4-Bromophenyl phenyl ether	ND		190	31	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
4-Chloro-3-methylphenol	ND		190	38	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
4-Chloroaniline	ND		190	26	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
4-Chlorophenyl phenyl ether	ND		190	39	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
4-Methylphenol	ND		360	33	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
4-Nitroaniline	ND		360	27	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
4-Nitrophenol	ND		360	50	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
Acenaphthene	ND		190	34	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
Acenaphthylene	ND		190	35	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
Acetophenone	ND		190	32	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
Anthracene	ND		190	34	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
Atrazine	ND		190	62	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
Benzaldehyde	ND		190	140	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
Benzo[a]anthracene	ND		190	25	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
Benzo[a]pyrene	ND		190	31	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
Benzo[b]fluoranthene	ND		190	25	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
Benzo[g,h,i]perylene	ND		190	32	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
Benzo[k]fluoranthene	ND		190	41	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
Biphenyl	ND		190	35	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
bis (2-chloroisopropyl) ether	ND		190	38	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
Bis(2-chloroethoxy)methane	ND		190	35	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
Bis(2-chloroethyl)ether	ND		190	35	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
Bis(2-ethylhexyl) phthalate	ND		190	40	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-4

Lab Sample ID: 480-229745-7

Date Collected: 05/28/25 10:00

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 90.2

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	ND		190	34	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
Caprolactam	ND		190	43	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
Carbazole	ND		190	36	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
Chrysene	ND		190	44	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
Dibenz(a,h)anthracene	ND		190	37	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
Dibenzofuran	ND		190	32	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
Diethyl phthalate	ND		190	33	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
Dimethyl phthalate	ND		190	36	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
Di-n-butyl phthalate	ND		190	41	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
Di-n-octyl phthalate	ND		190	35	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
Fluoranthene	ND		190	34	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
Fluorene	ND		190	34	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
Hexachlorobenzene	ND		190	36	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
Hexachlorobutadiene	ND		190	28	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
Hexachlorocyclopentadiene	ND		360	81	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
Hexachloroethane	ND		190	34	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
Indeno[1,2,3-cd]pyrene	ND		190	27	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
Isophorone	ND		190	38	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
Naphthalene	ND		190	31	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
Nitrobenzene	ND		190	31	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
N-Nitrosodi-n-propylamine	ND		190	41	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
N-Nitrosodiphenylamine	ND		190	31	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
Pentachlorophenol	ND		360	59	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
Phenanthrene	67	J	190	35	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
Phenol	ND		190	34	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1
Pyrene	ND		190	35	ug/Kg	☼	05/29/25 13:56	05/30/25 21:53	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	6300	T J	ug/Kg	☼	1.93	N/A	05/29/25 13:56	05/30/25 21:53	1
Unknown	1700	T J	ug/Kg	☼	3.35	N/A	05/29/25 13:56	05/30/25 21:53	1
Unknown	600	T J	ug/Kg	☼	7.75	N/A	05/29/25 13:56	05/30/25 21:53	1
Tridecane	1000	T J N	ug/Kg	☼	7.95	629-50-5	05/29/25 13:56	05/30/25 21:53	1
Tetradecane	1200	T J N	ug/Kg	☼	8.62	629-59-4	05/29/25 13:56	05/30/25 21:53	1
Hexadecane	1100	T J N	ug/Kg	☼	9.83	544-76-3	05/29/25 13:56	05/30/25 21:53	1
Pentadecane, 2,6,10-trimethyl-	1200	T J N	ug/Kg	☼	10.08	3892-00-0	05/29/25 13:56	05/30/25 21:53	1
Heptadecane	2100	T J N	ug/Kg	☼	10.35	629-78-7	05/29/25 13:56	05/30/25 21:53	1
Dodecane, 2,6,10-trimethyl-	440	T J N	ug/Kg	☼	10.55	3891-98-3	05/29/25 13:56	05/30/25 21:53	1
Hexadecane, 7,9-dimethyl-	1600	T J N	ug/Kg	☼	10.82	21164-95-4	05/29/25 13:56	05/30/25 21:53	1
Octadecane, 2-methyl-	670	T J N	ug/Kg	☼	10.85	1560-88-9	05/29/25 13:56	05/30/25 21:53	1
Eicosane	1300	T J N	ug/Kg	☼	11.23	112-95-8	05/29/25 13:56	05/30/25 21:53	1
Dodecane, 2-methyl-6-propyl-	1200	T J N	ug/Kg	☼	11.62	55045-08-4	05/29/25 13:56	05/30/25 21:53	1
Phenanthrene, 2,3-dimethyl-	410	T J N	ug/Kg	☼	11.88	3674-65-5	05/29/25 13:56	05/30/25 21:53	1
Heneicosane	1200	T J N	ug/Kg	☼	11.96	629-94-7	05/29/25 13:56	05/30/25 21:53	1
Nonadecane	870	T J N	ug/Kg	☼	12.29	629-92-5	05/29/25 13:56	05/30/25 21:53	1
Heptadecane, 9-octyl-	680	T J N	ug/Kg	☼	12.60	7225-64-1	05/29/25 13:56	05/30/25 21:53	1
Tetracosane	650	T J N	ug/Kg	☼	12.89	646-31-1	05/29/25 13:56	05/30/25 21:53	1
Heptacosane	610	T J N	ug/Kg	☼	13.17	593-49-7	05/29/25 13:56	05/30/25 21:53	1
Eicosane, 10-methyl-	450	T J N	ug/Kg	☼	13.69	54833-23-7	05/29/25 13:56	05/30/25 21:53	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-4

Lab Sample ID: 480-229745-7

Date Collected: 05/28/25 10:00

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 90.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	57		10 - 140	05/29/25 13:56	05/30/25 21:53	1
2-Fluorobiphenyl (Surr)	62		29 - 120	05/29/25 13:56	05/30/25 21:53	1
2-Fluorophenol (Surr)	53		18 - 120	05/29/25 13:56	05/30/25 21:53	1
Nitrobenzene-d5 (Surr)	57		22 - 120	05/29/25 13:56	05/30/25 21:53	1
Phenol-d5 (Surr)	55		23 - 120	05/29/25 13:56	05/30/25 21:53	1
p-Terphenyl-d14 (Surr)	63		28 - 124	05/29/25 13:56	05/30/25 21:53	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		3.7	0.71	ug/Kg	☆	05/30/25 13:55	06/02/25 15:20	1
4,4'-DDE	ND		3.7	0.77	ug/Kg	☆	05/30/25 13:55	06/02/25 15:20	1
4,4'-DDT	2.8	J B	3.7	0.86	ug/Kg	☆	05/30/25 13:55	06/02/25 15:20	1
beta-BHC	ND		3.7	0.66	ug/Kg	☆	05/30/25 13:55	06/02/25 15:20	1
cis-Chlordane	ND		3.7	1.8	ug/Kg	☆	05/30/25 13:55	06/02/25 15:20	1
alpha-BHC	ND		3.7	0.66	ug/Kg	☆	05/30/25 13:55	06/02/25 15:20	1
Aldrin	ND		3.7	0.90	ug/Kg	☆	05/30/25 13:55	06/02/25 15:20	1
delta-BHC	ND		3.7	0.68	ug/Kg	☆	05/30/25 13:55	06/02/25 15:20	1
Dieldrin	ND		3.7	0.88	ug/Kg	☆	05/30/25 13:55	06/02/25 15:20	1
Endosulfan I	ND		3.7	0.70	ug/Kg	☆	05/30/25 13:55	06/02/25 15:20	1
Endosulfan II	ND		3.7	0.66	ug/Kg	☆	05/30/25 13:55	06/02/25 15:20	1
Endosulfan sulfate	ND		3.7	0.68	ug/Kg	☆	05/30/25 13:55	06/02/25 15:20	1
Endrin	ND		3.7	0.72	ug/Kg	☆	05/30/25 13:55	06/02/25 15:20	1
Endrin aldehyde	ND		3.7	0.94	ug/Kg	☆	05/30/25 13:55	06/02/25 15:20	1
Endrin ketone	ND		3.7	0.90	ug/Kg	☆	05/30/25 13:55	06/02/25 15:20	1
gamma-BHC (Lindane)	ND		3.7	0.67	ug/Kg	☆	05/30/25 13:55	06/02/25 15:20	1
trans-Chlordane	ND		3.7	1.2	ug/Kg	☆	05/30/25 13:55	06/02/25 15:20	1
Heptachlor	ND		3.7	0.79	ug/Kg	☆	05/30/25 13:55	06/02/25 15:20	1
Heptachlor epoxide	ND		3.7	0.94	ug/Kg	☆	05/30/25 13:55	06/02/25 15:20	1
Methoxychlor	3.1	J	3.7	0.75	ug/Kg	☆	05/30/25 13:55	06/02/25 15:20	1
Toxaphene	ND		37	21	ug/Kg	☆	05/30/25 13:55	06/02/25 15:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	27	S1-	45 - 120	05/30/25 13:55	06/02/25 15:20	1
DCB Decachlorobiphenyl	29	S1-	45 - 120	05/30/25 13:55	06/02/25 15:20	1
Tetrachloro-m-xylene	38		30 - 124	05/30/25 13:55	06/02/25 15:20	1
Tetrachloro-m-xylene	35		30 - 124	05/30/25 13:55	06/02/25 15:20	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25	0.048	mg/Kg	☆	05/30/25 13:30	06/02/25 16:29	1
PCB-1221	ND		0.25	0.048	mg/Kg	☆	05/30/25 13:30	06/02/25 16:29	1
PCB-1232	ND		0.25	0.048	mg/Kg	☆	05/30/25 13:30	06/02/25 16:29	1
PCB-1242	ND		0.25	0.048	mg/Kg	☆	05/30/25 13:30	06/02/25 16:29	1
PCB-1248	ND		0.25	0.048	mg/Kg	☆	05/30/25 13:30	06/02/25 16:29	1
PCB-1254	ND		0.25	0.12	mg/Kg	☆	05/30/25 13:30	06/02/25 16:29	1
PCB-1260	ND		0.25	0.12	mg/Kg	☆	05/30/25 13:30	06/02/25 16:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	123		60 - 154	05/30/25 13:30	06/02/25 16:29	1
Tetrachloro-m-xylene	113		60 - 154	05/30/25 13:30	06/02/25 16:29	1
DCB Decachlorobiphenyl	125		65 - 174	05/30/25 13:30	06/02/25 16:29	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-4

Lab Sample ID: 480-229745-7

Date Collected: 05/28/25 10:00

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 90.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	118		65 - 174	05/30/25 13:30	06/02/25 16:29	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.40	0.13	ng/g	✱	06/02/25 09:13	06/03/25 11:37	1
Perfluoropentanoic acid (PFPeA)	ND		0.20	0.050	ng/g	✱	06/02/25 09:13	06/03/25 11:37	1
Perfluorohexanoic acid (PFHxA)	ND		0.20	0.060	ng/g	✱	06/02/25 09:13	06/03/25 11:37	1
Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.070	ng/g	✱	06/02/25 09:13	06/03/25 11:37	1
Perfluorooctanoic acid (PFOA)	ND		0.20	0.060	ng/g	✱	06/02/25 09:13	06/03/25 11:37	1
Perfluorononanoic acid (PFNA)	ND		0.20	0.060	ng/g	✱	06/02/25 09:13	06/03/25 11:37	1
Perfluorodecanoic acid (PFDA)	ND		0.20	0.050	ng/g	✱	06/02/25 09:13	06/03/25 11:37	1
Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.050	ng/g	✱	06/02/25 09:13	06/03/25 11:37	1
Perfluorododecanoic acid (PFDoA)	ND		0.20	0.050	ng/g	✱	06/02/25 09:13	06/03/25 11:37	1
Perfluorotridecanoic acid (PFTTrDA)	ND		0.20	0.070	ng/g	✱	06/02/25 09:13	06/03/25 11:37	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.20	0.070	ng/g	✱	06/02/25 09:13	06/03/25 11:37	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.070	ng/g	✱	06/02/25 09:13	06/03/25 11:37	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.20	0.060	ng/g	✱	06/02/25 09:13	06/03/25 11:37	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.050	ng/g	✱	06/02/25 09:13	06/03/25 11:37	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.070	ng/g	✱	06/02/25 09:13	06/03/25 11:37	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.20	0.11	ng/g	✱	06/02/25 09:13	06/03/25 11:37	1
Perfluorononanesulfonic acid (PFNS)	ND		0.20	0.070	ng/g	✱	06/02/25 09:13	06/03/25 11:37	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.050	ng/g	✱	06/02/25 09:13	06/03/25 11:37	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.060	ng/g	✱	06/02/25 09:13	06/03/25 11:37	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.40	0.099	ng/g	✱	06/02/25 09:13	06/03/25 11:37	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.40	0.13	ng/g	✱	06/02/25 09:13	06/03/25 11:37	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.40	0.13	ng/g	✱	06/02/25 09:13	06/03/25 11:37	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.090	ng/g	✱	06/02/25 09:13	06/03/25 11:37	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.20	0.090	ng/g	✱	06/02/25 09:13	06/03/25 11:37	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.20	0.099	ng/g	✱	06/02/25 09:13	06/03/25 11:37	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.20	0.080	ng/g	✱	06/02/25 09:13	06/03/25 11:37	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.20	0.11	ng/g	✱	06/02/25 09:13	06/03/25 11:37	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		0.99	0.30	ng/g	✱	06/02/25 09:13	06/03/25 11:37	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		0.99	0.30	ng/g	✱	06/02/25 09:13	06/03/25 11:37	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.20	0.11	ng/g	✱	06/02/25 09:13	06/03/25 11:37	1
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND		0.20	0.060	ng/g	✱	06/02/25 09:13	06/03/25 11:37	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.20	0.070	ng/g	✱	06/02/25 09:13	06/03/25 11:37	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.20	0.050	ng/g	✱	06/02/25 09:13	06/03/25 11:37	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-4

Lab Sample ID: 480-229745-7

Date Collected: 05/28/25 10:00

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 90.2

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.20	0.070	ng/g	☼	06/02/25 09:13	06/03/25 11:37	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid (9CI-PF3ONS)	ND		0.20	0.090	ng/g	☼	06/02/25 09:13	06/03/25 11:37	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11CI-PF3OUdS)	ND		0.20	0.080	ng/g	☼	06/02/25 09:13	06/03/25 11:37	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.20	0.050	ng/g	☼	06/02/25 09:13	06/03/25 11:37	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.40	0.20	ng/g	☼	06/02/25 09:13	06/03/25 11:37	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		0.99	0.50	ng/g	☼	06/02/25 09:13	06/03/25 11:37	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		0.99	0.40	ng/g	☼	06/02/25 09:13	06/03/25 11:37	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	74.6		8 - 130	06/02/25 09:13	06/03/25 11:37	1
13C5-PFPeA	81.8		35 - 130	06/02/25 09:13	06/03/25 11:37	1
13C5-PFHxA	77.0		40 - 130	06/02/25 09:13	06/03/25 11:37	1
13C4-PFHpA	75.9		40 - 130	06/02/25 09:13	06/03/25 11:37	1
13C8-PFOA	78.0		40 - 130	06/02/25 09:13	06/03/25 11:37	1
13C9-PFNA	76.9		40 - 130	06/02/25 09:13	06/03/25 11:37	1
13C6-PFDA	78.2		40 - 130	06/02/25 09:13	06/03/25 11:37	1
13C7-PFUnA	85.6		40 - 130	06/02/25 09:13	06/03/25 11:37	1
13C2-PFTeDA	95.2		20 - 130	06/02/25 09:13	06/03/25 11:37	1
13C3-PFBS	77.7		40 - 135	06/02/25 09:13	06/03/25 11:37	1
13C3-PFHxS	81.4		40 - 130	06/02/25 09:13	06/03/25 11:37	1
13C8-PFOS	81.6		40 - 130	06/02/25 09:13	06/03/25 11:37	1
13C8-PFOSA	80.4		40 - 130	06/02/25 09:13	06/03/25 11:37	1
d3-NMeFOSAA	77.4		40 - 135	06/02/25 09:13	06/03/25 11:37	1
d5-NEtFOSAA	79.6		40 - 150	06/02/25 09:13	06/03/25 11:37	1
13C2 4:2 FTS	85.9		40 - 165	06/02/25 09:13	06/03/25 11:37	1
13C2 6:2 FTS	106		40 - 215	06/02/25 09:13	06/03/25 11:37	1
13C2 8:2 FTS	88.5		40 - 275	06/02/25 09:13	06/03/25 11:37	1
13C3-HFPO-DA	81.4		40 - 130	06/02/25 09:13	06/03/25 11:37	1
D7-NMeFOSE	79.0		20 - 130	06/02/25 09:13	06/03/25 11:37	1
D9-NEtFOSE	75.5		15 - 130	06/02/25 09:13	06/03/25 11:37	1
d5-NEtPFOSA	73.7		10 - 130	06/02/25 09:13	06/03/25 11:37	1
d3-NMePFOSA	74.4		10 - 130	06/02/25 09:13	06/03/25 11:37	1
13C2 PFDoA	75.7		40 - 130	06/02/25 09:13	06/03/25 11:37	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10800		11.3	9.7	mg/Kg	☼	05/29/25 15:23	05/30/25 21:55	1
Antimony	ND		16.9	0.60	mg/Kg	☼	05/29/25 15:23	05/30/25 21:55	1
Arsenic	9.6		2.3	0.99	mg/Kg	☼	05/29/25 15:23	05/30/25 21:55	1
Barium	48.6		0.56	0.16	mg/Kg	☼	05/29/25 15:23	05/30/25 21:55	1
Beryllium	0.57	^5- B	0.23	0.045	mg/Kg	☼	05/29/25 15:23	05/30/25 21:55	1
Cadmium	0.31		0.23	0.079	mg/Kg	☼	05/29/25 15:23	05/30/25 21:55	1
Calcium	31800		56.5	30.5	mg/Kg	☼	05/29/25 15:23	06/04/25 18:58	1
Chromium	15.1		0.56	0.41	mg/Kg	☼	05/29/25 15:23	05/30/25 21:55	1
Cobalt	11.9		0.56	0.11	mg/Kg	☼	05/29/25 15:23	05/30/25 21:55	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-4

Lab Sample ID: 480-229745-7

Date Collected: 05/28/25 10:00

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 90.2

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	39.2		1.1	0.64	mg/Kg	✱	05/29/25 15:23	05/30/25 21:55	1
Iron	25000	^2 ^+	11.3	9.6	mg/Kg	✱	05/29/25 15:23	05/30/25 21:55	1
Lead	18.0		1.1	0.52	mg/Kg	✱	05/29/25 15:23	05/30/25 21:55	1
Magnesium	7980		22.6	9.6	mg/Kg	✱	05/29/25 15:23	05/30/25 21:55	1
Manganese	356	B	1.1	0.32	mg/Kg	✱	05/29/25 15:23	06/04/25 18:58	1
Nickel	32.2	^5-	5.6	0.28	mg/Kg	✱	05/29/25 15:23	05/30/25 21:55	1
Potassium	2520		33.9	27.4	mg/Kg	✱	05/29/25 15:23	05/30/25 21:55	1
Selenium	ND		4.5	0.90	mg/Kg	✱	05/29/25 15:23	05/30/25 21:55	1
Silver	ND	^5-	0.68	0.23	mg/Kg	✱	05/29/25 15:23	06/04/25 18:58	1
Sodium	168		158	69.3	mg/Kg	✱	05/29/25 15:23	06/04/25 18:58	1
Thallium	ND		6.8	0.86	mg/Kg	✱	05/29/25 15:23	05/30/25 21:55	1
Vanadium	19.3		0.56	0.15	mg/Kg	✱	05/29/25 15:23	05/30/25 21:55	1
Zinc	74.6	^5-	2.3	1.2	mg/Kg	✱	05/29/25 15:23	05/30/25 21:55	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020	J	0.021	0.0049	mg/Kg	✱	05/30/25 13:38	05/30/25 15:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		1.0	0.49	mg/Kg	✱	06/04/25 12:18	06/04/25 16:26	1

Client Sample ID: RI-MW-4-DUP

Lab Sample ID: 480-229745-8

Date Collected: 05/28/25 10:15

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 89.6

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.5	0.40	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
1,1,2,2-Tetrachloroethane	ND	vs	5.5	0.89	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.5	1.2	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
1,1,2-Trichloroethane	ND	vs	5.5	0.71	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
1,1-Dichloroethane	ND	vs	5.5	0.67	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
1,1-Dichloroethene	ND	vs	5.5	0.67	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
1,2,4-Trichlorobenzene	ND	vs	5.5	0.33	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.5	2.7	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
1,2-Dichlorobenzene	ND	vs	5.5	0.43	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
1,2-Dichloroethane	ND	vs	5.5	0.27	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
1,2-Dichloropropane	ND	vs	5.5	2.7	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
1,3-Dichlorobenzene	ND	vs	5.5	0.28	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
1,4-Dichlorobenzene	ND	vs	5.5	0.76	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
2-Butanone (MEK)	ND	vs	27	2.0	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
2-Hexanone	ND	vs	27	2.7	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
4-Methyl-2-pentanone (MIBK)	ND	vs	27	1.8	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
Acetone	7.0	J vs	27	4.6	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
Benzene	ND	vs	5.5	0.27	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
Bromoform	ND	vs	5.5	2.7	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
Bromomethane	ND	vs	5.5	0.49	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
Carbon disulfide	ND	vs	5.5	2.7	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
Carbon tetrachloride	ND	vs	5.5	0.53	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-4-DUP

Lab Sample ID: 480-229745-8

Date Collected: 05/28/25 10:15

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 89.6

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND	vs	5.5	0.72	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
Dibromochloromethane	ND	vs	5.5	0.70	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
Chloroethane	ND	vs	5.5	1.2	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
Chloroform	0.53	J B vs	5.5	0.34	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
Chloromethane	ND	vs	5.5	0.33	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
cis-1,2-Dichloroethene	ND	vs	5.5	0.70	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
Cyclohexane	ND	vs	5.5	0.76	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
Bromodichloromethane	ND	vs	5.5	0.73	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
Dichlorodifluoromethane	ND	vs	5.5	0.45	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
Ethylbenzene	ND	vs	5.5	0.38	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
1,2-Dibromoethane	ND	vs	5.5	0.70	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
Isopropylbenzene	ND	vs	5.5	0.82	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
Methyl acetate	ND	vs	27	3.3	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
Methyl tert-butyl ether	ND	vs	5.5	0.54	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
Methylcyclohexane	1.4	J vs	5.5	0.83	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
Methylene Chloride	ND	vs	5.5	2.5	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
Tetrachloroethene	ND	vs	5.5	0.73	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
Toluene	ND	vs	5.5	0.41	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
trans-1,2-Dichloroethene	ND	vs	5.5	0.56	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
trans-1,3-Dichloropropene	ND	vs	5.5	2.4	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
Trichloroethene	ND	vs	5.5	1.2	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
Trichlorofluoromethane	ND	vs	5.5	0.52	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
Vinyl chloride	ND	vs	5.5	0.67	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
Xylenes, Total	ND	vs	11	0.92	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
cis-1,3-Dichloropropene	ND	vs	5.5	0.79	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1
Styrene	ND	vs	5.5	0.27	ug/Kg	✱	05/29/25 18:02	05/30/25 01:01	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	✱		N/A	05/29/25 18:02	05/30/25 01:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		64 - 126	05/29/25 18:02	05/30/25 01:01	1
4-Bromofluorobenzene (Surr)	105		72 - 126	05/29/25 18:02	05/30/25 01:01	1
Toluene-d8 (Surr)	90		71 - 125	05/29/25 18:02	05/30/25 01:01	1
Dibromofluoromethane (Surr)	106		60 - 140	05/29/25 18:02	05/30/25 01:01	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		110	41	ug/Kg	✱	05/29/25 13:56	05/30/25 22:43	1
2,4,5-Trichlorophenol	ND		190	38	ug/Kg	✱	05/29/25 13:56	05/30/25 22:43	1
2,4,6-Trichlorophenol	ND		190	28	ug/Kg	✱	05/29/25 13:56	05/30/25 22:43	1
2,4-Dichlorophenol	ND		190	36	ug/Kg	✱	05/29/25 13:56	05/30/25 22:43	1
2,4-Dimethylphenol	ND		190	39	ug/Kg	✱	05/29/25 13:56	05/30/25 22:43	1
2,4-Dinitrophenol	ND		1800	35	ug/Kg	✱	05/29/25 13:56	05/30/25 22:43	1
2,4-Dinitrotoluene	ND		190	25	ug/Kg	✱	05/29/25 13:56	05/30/25 22:43	1
2,6-Dinitrotoluene	ND		190	27	ug/Kg	✱	05/29/25 13:56	05/30/25 22:43	1
2-Chloronaphthalene	ND		190	35	ug/Kg	✱	05/29/25 13:56	05/30/25 22:43	1
2-Chlorophenol	ND		190	29	ug/Kg	✱	05/29/25 13:56	05/30/25 22:43	1
2-Methylnaphthalene	ND		190	29	ug/Kg	✱	05/29/25 13:56	05/30/25 22:43	1
2-Methylphenol	ND		190	30	ug/Kg	✱	05/29/25 13:56	05/30/25 22:43	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-4-DUP

Lab Sample ID: 480-229745-8

Date Collected: 05/28/25 10:15

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 89.6

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	ND		360	32	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
2-Nitrophenol	ND		190	21	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
3,3'-Dichlorobenzidine	ND		360	55	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
3-Nitroaniline	ND		360	26	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
4,6-Dinitro-2-methylphenol	ND		360	41	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
4-Bromophenyl phenyl ether	ND		190	32	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
4-Chloro-3-methylphenol	ND		190	38	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
4-Chloroaniline	ND		190	27	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
4-Chlorophenyl phenyl ether	ND		190	39	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
4-Methylphenol	ND		360	33	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
4-Nitroaniline	ND		360	27	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
4-Nitrophenol	ND		360	51	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
Acenaphthene	ND		190	35	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
Acenaphthylene	ND		190	36	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
Acetophenone	ND		190	33	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
Anthracene	ND		190	34	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
Atrazine	ND		190	63	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
Benzaldehyde	ND		190	140	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
Benzo[a]anthracene	ND		190	26	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
Benzo[a]pyrene	ND		190	32	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
Benzo[b]fluoranthene	ND		190	25	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
Benzo[g,h,i]perylene	ND		190	33	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
Benzo[k]fluoranthene	ND		190	42	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
Biphenyl	ND		190	35	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
bis (2-chloroisopropyl) ether	ND		190	38	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
Bis(2-chloroethoxy)methane	ND		190	36	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
Bis(2-chloroethyl)ether	ND		190	35	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
Bis(2-ethylhexyl) phthalate	ND		190	41	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
Butyl benzyl phthalate	ND		190	34	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
Caprolactam	ND		190	43	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
Carbazole	ND		190	37	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
Chrysene	ND		190	45	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
Dibenz(a,h)anthracene	ND		190	38	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
Dibenzofuran	ND		190	33	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
Diethyl phthalate	ND		190	33	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
Dimethyl phthalate	ND		190	36	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
Di-n-butyl phthalate	ND		190	42	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
Di-n-octyl phthalate	ND		190	35	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
Fluoranthene	ND		190	34	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
Fluorene	ND		190	34	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
Hexachlorobenzene	ND		190	36	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
Hexachlorobutadiene	ND		190	28	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
Hexachlorocyclopentadiene	ND		360	82	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
Hexachloroethane	ND		190	34	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
Indeno[1,2,3-cd]pyrene	ND		190	28	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
Isophorone	ND		190	38	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
Naphthalene	ND		190	31	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
Nitrobenzene	ND		190	31	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1
N-Nitrosodi-n-propylamine	ND		190	42	ug/Kg	☆	05/29/25 13:56	05/30/25 22:43	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-4-DUP

Lab Sample ID: 480-229745-8

Date Collected: 05/28/25 10:15

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 89.6

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	ND		190	31	ug/Kg	☼	05/29/25 13:56	05/30/25 22:43	1
Pentachlorophenol	ND		360	59	ug/Kg	☼	05/29/25 13:56	05/30/25 22:43	1
Phenanthrene	100	J	190	35	ug/Kg	☼	05/29/25 13:56	05/30/25 22:43	1
Phenol	ND		190	34	ug/Kg	☼	05/29/25 13:56	05/30/25 22:43	1
Pyrene	ND		190	35	ug/Kg	☼	05/29/25 13:56	05/30/25 22:43	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	17000	T J	ug/Kg	☼	1.93	N/A	05/29/25 13:56	05/30/25 22:43	1
Unknown	7300	T J	ug/Kg	☼	3.35	N/A	05/29/25 13:56	05/30/25 22:43	1
Octane, 2,6-dimethyl-	760	T J N	ug/Kg	☼	7.75	2051-30-1	05/29/25 13:56	05/30/25 22:43	1
Tridecane	1100	T J N	ug/Kg	☼	7.96	629-50-5	05/29/25 13:56	05/30/25 22:43	1
Tetradecane	1300	T J N	ug/Kg	☼	8.63	629-59-4	05/29/25 13:56	05/30/25 22:43	1
Dodecane, 4,6-dimethyl-	560	T J N	ug/Kg	☼	9.00	61141-72-8	05/29/25 13:56	05/30/25 22:43	1
Dodecane, 2-methyl-6-propyl-	1200	T J N	ug/Kg	☼	9.83	55045-08-4	05/29/25 13:56	05/30/25 22:43	1
Pentadecane, 2,6,10-trimethyl-	1400	T J N	ug/Kg	☼	10.08	3892-00-0	05/29/25 13:56	05/30/25 22:43	1
Heptadecane	2400	T J N	ug/Kg	☼	10.35	629-78-7	05/29/25 13:56	05/30/25 22:43	1
Pentadecane, 2,6,10,14-tetramethyl-	1900	T J N	ug/Kg	☼	10.37	1921-70-6	05/29/25 13:56	05/30/25 22:43	1
Pentadecane, 7-methyl-	520	T J N	ug/Kg	☼	10.56	6165-40-8	05/29/25 13:56	05/30/25 22:43	1
Hexadecane	1900	T J N	ug/Kg	☼	10.82	544-76-3	05/29/25 13:56	05/30/25 22:43	1
Hexadecane, 2,6,10,14-tetramethyl-	950	T J N	ug/Kg	☼	10.85	638-36-8	05/29/25 13:56	05/30/25 22:43	1
Octadecane	1600	T J N	ug/Kg	☼	11.24	593-45-3	05/29/25 13:56	05/30/25 22:43	1
Eicosane	1600	T J N	ug/Kg	☼	11.62	112-95-8	05/29/25 13:56	05/30/25 22:43	1
Docosane	1100	T J N	ug/Kg	☼	12.30	629-97-0	05/29/25 13:56	05/30/25 22:43	1
Pentadecane	900	T J N	ug/Kg	☼	12.60	629-62-9	05/29/25 13:56	05/30/25 22:43	1
Eicosane, 10-methyl-	870	T J N	ug/Kg	☼	12.89	54833-23-7	05/29/25 13:56	05/30/25 22:43	1
Eicosane, 9-octyl-	830	T J N	ug/Kg	☼	13.17	13475-77-9	05/29/25 13:56	05/30/25 22:43	1
Octacosane	640	T J N	ug/Kg	☼	13.69	630-02-4	05/29/25 13:56	05/30/25 22:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	75		10 - 140	05/29/25 13:56	05/30/25 22:43	1
2-Fluorobiphenyl (Surr)	82		29 - 120	05/29/25 13:56	05/30/25 22:43	1
2-Fluorophenol (Surr)	68		18 - 120	05/29/25 13:56	05/30/25 22:43	1
Nitrobenzene-d5 (Surr)	74		22 - 120	05/29/25 13:56	05/30/25 22:43	1
Phenol-d5 (Surr)	73		23 - 120	05/29/25 13:56	05/30/25 22:43	1
p-Terphenyl-d14 (Surr)	81		28 - 124	05/29/25 13:56	05/30/25 22:43	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		19	3.6	ug/Kg	☼	05/30/25 13:55	06/02/25 15:39	5
4,4'-DDE	ND		19	3.9	ug/Kg	☼	05/30/25 13:55	06/02/25 15:39	5
4,4'-DDT	ND		19	4.3	ug/Kg	☼	05/30/25 13:55	06/02/25 15:39	5
beta-BHC	ND		19	3.3	ug/Kg	☼	05/30/25 13:55	06/02/25 15:39	5
cis-Chlordane	ND		19	9.2	ug/Kg	☼	05/30/25 13:55	06/02/25 15:39	5
alpha-BHC	ND		19	3.3	ug/Kg	☼	05/30/25 13:55	06/02/25 15:39	5
Aldrin	ND		19	4.6	ug/Kg	☼	05/30/25 13:55	06/02/25 15:39	5
delta-BHC	ND		19	3.4	ug/Kg	☼	05/30/25 13:55	06/02/25 15:39	5
Dieldrin	ND		19	4.4	ug/Kg	☼	05/30/25 13:55	06/02/25 15:39	5
Endosulfan I	ND		19	3.6	ug/Kg	☼	05/30/25 13:55	06/02/25 15:39	5
Endosulfan II	ND		19	3.3	ug/Kg	☼	05/30/25 13:55	06/02/25 15:39	5
Endosulfan sulfate	ND		19	3.5	ug/Kg	☼	05/30/25 13:55	06/02/25 15:39	5

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-4-DUP

Lab Sample ID: 480-229745-8

Date Collected: 05/28/25 10:15

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 89.6

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin	ND		19	3.7	ug/Kg	✱	05/30/25 13:55	06/02/25 15:39	5
Endrin aldehyde	ND		19	4.7	ug/Kg	✱	05/30/25 13:55	06/02/25 15:39	5
Endrin ketone	12	J	19	4.6	ug/Kg	✱	05/30/25 13:55	06/02/25 15:39	5
gamma-BHC (Lindane)	ND		19	3.4	ug/Kg	✱	05/30/25 13:55	06/02/25 15:39	5
trans-Chlordane	ND		19	5.9	ug/Kg	✱	05/30/25 13:55	06/02/25 15:39	5
Heptachlor	ND		19	4.0	ug/Kg	✱	05/30/25 13:55	06/02/25 15:39	5
Heptachlor epoxide	ND		19	4.8	ug/Kg	✱	05/30/25 13:55	06/02/25 15:39	5
Methoxychlor	ND		19	3.8	ug/Kg	✱	05/30/25 13:55	06/02/25 15:39	5
Toxaphene	ND		190	110	ug/Kg	✱	05/30/25 13:55	06/02/25 15:39	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	60		45 - 120				05/30/25 13:55	06/02/25 15:39	5
DCB Decachlorobiphenyl	57		45 - 120				05/30/25 13:55	06/02/25 15:39	5
Tetrachloro-m-xylene	66		30 - 124				05/30/25 13:55	06/02/25 15:39	5
Tetrachloro-m-xylene	52		30 - 124				05/30/25 13:55	06/02/25 15:39	5

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25	0.048	mg/Kg	✱	05/30/25 13:30	06/02/25 16:47	1
PCB-1221	ND		0.25	0.048	mg/Kg	✱	05/30/25 13:30	06/02/25 16:47	1
PCB-1232	ND		0.25	0.048	mg/Kg	✱	05/30/25 13:30	06/02/25 16:47	1
PCB-1242	ND		0.25	0.048	mg/Kg	✱	05/30/25 13:30	06/02/25 16:47	1
PCB-1248	ND		0.25	0.048	mg/Kg	✱	05/30/25 13:30	06/02/25 16:47	1
PCB-1254	ND		0.25	0.12	mg/Kg	✱	05/30/25 13:30	06/02/25 16:47	1
PCB-1260	ND		0.25	0.12	mg/Kg	✱	05/30/25 13:30	06/02/25 16:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	131		60 - 154				05/30/25 13:30	06/02/25 16:47	1
Tetrachloro-m-xylene	118		60 - 154				05/30/25 13:30	06/02/25 16:47	1
DCB Decachlorobiphenyl	130		65 - 174				05/30/25 13:30	06/02/25 16:47	1
DCB Decachlorobiphenyl	123		65 - 174				05/30/25 13:30	06/02/25 16:47	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.40	0.13	ng/g	✱	06/02/25 14:18	06/03/25 18:55	1
Perfluoropentanoic acid (PFPeA)	ND		0.20	0.050	ng/g	✱	06/02/25 14:18	06/03/25 18:55	1
Perfluorohexanoic acid (PFHxA)	ND		0.20	0.060	ng/g	✱	06/02/25 14:18	06/03/25 18:55	1
Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.070	ng/g	✱	06/02/25 14:18	06/03/25 18:55	1
Perfluorooctanoic acid (PFOA)	ND		0.20	0.060	ng/g	✱	06/02/25 14:18	06/03/25 18:55	1
Perfluorononanoic acid (PFNA)	ND		0.20	0.060	ng/g	✱	06/02/25 14:18	06/03/25 18:55	1
Perfluorodecanoic acid (PFDA)	ND		0.20	0.050	ng/g	✱	06/02/25 14:18	06/03/25 18:55	1
Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.050	ng/g	✱	06/02/25 14:18	06/03/25 18:55	1
Perfluorododecanoic acid (PFDoA)	ND		0.20	0.050	ng/g	✱	06/02/25 14:18	06/03/25 18:55	1
Perfluorotridecanoic acid (PFTriDA)	ND		0.20	0.070	ng/g	✱	06/02/25 14:18	06/03/25 18:55	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.20	0.070	ng/g	✱	06/02/25 14:18	06/03/25 18:55	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.070	ng/g	✱	06/02/25 14:18	06/03/25 18:55	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.20	0.060	ng/g	✱	06/02/25 14:18	06/03/25 18:55	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.050	ng/g	✱	06/02/25 14:18	06/03/25 18:55	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.070	ng/g	✱	06/02/25 14:18	06/03/25 18:55	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-4-DUP

Lab Sample ID: 480-229745-8

Date Collected: 05/28/25 10:15

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 89.6

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	ND		0.20	0.11	ng/g	☼	06/02/25 14:18	06/03/25 18:55	1
Perfluorononanesulfonic acid (PFNS)	ND		0.20	0.070	ng/g	☼	06/02/25 14:18	06/03/25 18:55	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.050	ng/g	☼	06/02/25 14:18	06/03/25 18:55	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.060	ng/g	☼	06/02/25 14:18	06/03/25 18:55	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.40	0.10	ng/g	☼	06/02/25 14:18	06/03/25 18:55	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.40	0.13	ng/g	☼	06/02/25 14:18	06/03/25 18:55	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.40	0.13	ng/g	☼	06/02/25 14:18	06/03/25 18:55	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.090	ng/g	☼	06/02/25 14:18	06/03/25 18:55	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.20	0.090	ng/g	☼	06/02/25 14:18	06/03/25 18:55	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.20	0.10	ng/g	☼	06/02/25 14:18	06/03/25 18:55	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.20	0.080	ng/g	☼	06/02/25 14:18	06/03/25 18:55	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.20	0.11	ng/g	☼	06/02/25 14:18	06/03/25 18:55	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.0	0.30	ng/g	☼	06/02/25 14:18	06/03/25 18:55	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.0	0.30	ng/g	☼	06/02/25 14:18	06/03/25 18:55	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.20	0.11	ng/g	☼	06/02/25 14:18	06/03/25 18:55	1
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND		0.20	0.060	ng/g	☼	06/02/25 14:18	06/03/25 18:55	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.20	0.070	ng/g	☼	06/02/25 14:18	06/03/25 18:55	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.20	0.050	ng/g	☼	06/02/25 14:18	06/03/25 18:55	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.20	0.070	ng/g	☼	06/02/25 14:18	06/03/25 18:55	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	ND		0.20	0.080	ng/g	☼	06/02/25 14:18	06/03/25 18:55	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.20	0.050	ng/g	☼	06/02/25 14:18	06/03/25 18:55	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.40	0.20	ng/g	☼	06/02/25 14:18	06/03/25 18:55	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		1.0	0.50	ng/g	☼	06/02/25 14:18	06/03/25 18:55	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		1.0	0.40	ng/g	☼	06/02/25 14:18	06/03/25 18:55	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	88.6		8 - 130	06/02/25 14:18	06/03/25 18:55	1
13C5-PFPeA	93.7		35 - 130	06/02/25 14:18	06/03/25 18:55	1
13C5-PFHxA	87.9		40 - 130	06/02/25 14:18	06/03/25 18:55	1
13C4-PFHpA	89.7		40 - 130	06/02/25 14:18	06/03/25 18:55	1
13C8-PFOA	81.0		40 - 130	06/02/25 14:18	06/03/25 18:55	1
13C9-PFNA	75.9		40 - 130	06/02/25 14:18	06/03/25 18:55	1
13C6-PFDA	69.5		40 - 130	06/02/25 14:18	06/03/25 18:55	1
13C7-PFUnA	69.4		40 - 130	06/02/25 14:18	06/03/25 18:55	1
13C2-PFTeDA	62.3		20 - 130	06/02/25 14:18	06/03/25 18:55	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-4-DUP

Lab Sample ID: 480-229745-8

Date Collected: 05/28/25 10:15

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 89.6

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3-PFBS	82.5		40 - 135	06/02/25 14:18	06/03/25 18:55	1
13C3-PFHxS	75.5		40 - 130	06/02/25 14:18	06/03/25 18:55	1
13C8-PFOS	66.4		40 - 130	06/02/25 14:18	06/03/25 18:55	1
13C8-PFOSA	68.1		40 - 130	06/02/25 14:18	06/03/25 18:55	1
d3-NMeFOSAA	65.1		40 - 135	06/02/25 14:18	06/03/25 18:55	1
d5-NEtFOSAA	52.3		40 - 150	06/02/25 14:18	06/03/25 18:55	1
13C2 4:2 FTS	84.4		40 - 165	06/02/25 14:18	06/03/25 18:55	1
13C2 6:2 FTS	95.0		40 - 215	06/02/25 14:18	06/03/25 18:55	1
13C2 8:2 FTS	65.5		40 - 275	06/02/25 14:18	06/03/25 18:55	1
13C3-HFPO-DA	84.6		40 - 130	06/02/25 14:18	06/03/25 18:55	1
D7-NMeFOSE	29.9		20 - 130	06/02/25 14:18	06/03/25 18:55	1
D9-NEtFOSE	25.5		15 - 130	06/02/25 14:18	06/03/25 18:55	1
d5-NEtPFOSA	49.6		10 - 130	06/02/25 14:18	06/03/25 18:55	1
d3-NMePFOSA	55.9		10 - 130	06/02/25 14:18	06/03/25 18:55	1
13C2 PFDoA	64.5		40 - 130	06/02/25 14:18	06/03/25 18:55	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid (9Cl-PF3ONS)	ND		0.20	0.089	ng/g	☼	06/04/25 14:32	06/05/25 13:38	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3-HFPO-DA	112		40 - 130				06/04/25 14:32	06/05/25 13:38	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10500		11.5	9.9	mg/Kg	☆	05/29/25 15:23	05/30/25 21:57	1
Antimony	ND		17.2	0.61	mg/Kg	☆	05/29/25 15:23	05/30/25 21:57	1
Arsenic	7.0		2.3	1.0	mg/Kg	☆	05/29/25 15:23	05/30/25 21:57	1
Barium	130		0.57	0.16	mg/Kg	☆	05/29/25 15:23	05/30/25 21:57	1
Beryllium	0.57	^5- B	0.23	0.046	mg/Kg	☆	05/29/25 15:23	05/30/25 21:57	1
Cadmium	0.20	J	0.23	0.080	mg/Kg	☆	05/29/25 15:23	05/30/25 21:57	1
Calcium	43200		57.4	31.0	mg/Kg	☆	05/29/25 15:23	06/04/25 19:00	1
Chromium	14.4		0.57	0.41	mg/Kg	☆	05/29/25 15:23	05/30/25 21:57	1
Cobalt	9.5		0.57	0.11	mg/Kg	☆	05/29/25 15:23	05/30/25 21:57	1
Copper	29.7		1.1	0.65	mg/Kg	☆	05/29/25 15:23	05/30/25 21:57	1
Iron	21700	^2 ^+	11.5	9.7	mg/Kg	☆	05/29/25 15:23	05/30/25 21:57	1
Lead	14.0		1.1	0.53	mg/Kg	☆	05/29/25 15:23	05/30/25 21:57	1
Magnesium	8560		23.0	9.7	mg/Kg	☆	05/29/25 15:23	05/30/25 21:57	1
Manganese	406	B	1.1	0.32	mg/Kg	☆	05/29/25 15:23	06/04/25 19:00	1
Nickel	25.1	^5-	5.7	0.29	mg/Kg	☆	05/29/25 15:23	05/30/25 21:57	1
Potassium	2550		34.4	27.8	mg/Kg	☆	05/29/25 15:23	05/30/25 21:57	1
Selenium	ND		4.6	0.92	mg/Kg	☆	05/29/25 15:23	05/30/25 21:57	1
Silver	ND	^5-	0.69	0.23	mg/Kg	☆	05/29/25 15:23	06/04/25 19:00	1
Sodium	162		161	70.4	mg/Kg	☆	05/29/25 15:23	06/04/25 19:00	1
Thallium	ND		6.9	0.87	mg/Kg	☆	05/29/25 15:23	05/30/25 21:57	1
Vanadium	19.0		0.57	0.15	mg/Kg	☆	05/29/25 15:23	05/30/25 21:57	1
Zinc	48.5	^5-	2.3	1.2	mg/Kg	☆	05/29/25 15:23	05/30/25 21:57	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-4-DUP

Lab Sample ID: 480-229745-8

Date Collected: 05/28/25 10:15

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 89.6

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020	J	0.023	0.0054	mg/Kg	☆	05/30/25 13:38	05/30/25 15:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		1.0	0.48	mg/Kg	☆	06/04/25 12:18	06/04/25 16:26	1

Client Sample ID: RI-MW-5

Lab Sample ID: 480-229745-9

Date Collected: 05/28/25 10:30

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 89.9

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.5	0.40	ug/Kg	☆	05/29/25 18:02	05/30/25 01:24	1
1,1,2,2-Tetrachloroethane	ND	F1 vs	5.5	0.89	ug/Kg	☆	05/29/25 18:02	05/30/25 01:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.5	1.2	ug/Kg	☆	05/29/25 18:02	05/30/25 01:24	1
1,1,2-Trichloroethane	ND	F1 vs	5.5	0.71	ug/Kg	☆	05/29/25 18:02	05/30/25 01:24	1
1,1-Dichloroethane	ND	vs	5.5	0.67	ug/Kg	☆	05/29/25 18:02	05/30/25 01:24	1
1,1-Dichloroethene	ND	vs	5.5	0.67	ug/Kg	☆	05/29/25 18:02	05/30/25 01:24	1
1,2,4-Trichlorobenzene	ND	F1 vs	5.5	0.33	ug/Kg	☆	05/29/25 18:02	05/30/25 01:24	1
1,2-Dibromo-3-Chloropropane	ND	F1 vs	5.5	2.7	ug/Kg	☆	05/29/25 18:02	05/30/25 01:24	1
1,2-Dichlorobenzene	ND	F1 vs	5.5	0.43	ug/Kg	☆	05/29/25 18:02	05/30/25 01:24	1
1,2-Dichloroethane	ND	vs	5.5	0.28	ug/Kg	☆	05/29/25 18:02	05/30/25 01:24	1
1,2-Dichloropropane	ND	vs	5.5	2.7	ug/Kg	☆	05/29/25 18:02	05/30/25 01:24	1
1,3-Dichlorobenzene	ND	F1 vs	5.5	0.28	ug/Kg	☆	05/29/25 18:02	05/30/25 01:24	1
1,4-Dichlorobenzene	ND	F1 vs	5.5	0.77	ug/Kg	☆	05/29/25 18:02	05/30/25 01:24	1
2-Butanone (MEK)	ND	vs	27	2.0	ug/Kg	☆	05/29/25 18:02	05/30/25 01:24	1
2-Hexanone	ND	F1 vs	27	2.7	ug/Kg	☆	05/29/25 18:02	05/30/25 01:24	1
4-Methyl-2-pentanone (MIBK)	ND	F1 vs	27	1.8	ug/Kg	☆	05/29/25 18:02	05/30/25 01:24	1
Acetone	11	J vs	27	4.6	ug/Kg	☆	05/29/25 18:02	05/30/25 01:24	1
Benzene	ND	vs	5.5	0.27	ug/Kg	☆	05/29/25 18:02	05/30/25 01:24	1
Bromoform	ND	F1 vs	5.5	2.7	ug/Kg	☆	05/29/25 18:02	05/30/25 01:24	1
Bromomethane	ND	vs	5.5	0.49	ug/Kg	☆	05/29/25 18:02	05/30/25 01:24	1
Carbon disulfide	ND	vs	5.5	2.7	ug/Kg	☆	05/29/25 18:02	05/30/25 01:24	1
Carbon tetrachloride	ND	F1 vs	5.5	0.53	ug/Kg	☆	05/29/25 18:02	05/30/25 01:24	1
Chlorobenzene	ND	F1 vs	5.5	0.72	ug/Kg	☆	05/29/25 18:02	05/30/25 01:24	1
Dibromochloromethane	ND	F1 vs	5.5	0.70	ug/Kg	☆	05/29/25 18:02	05/30/25 01:24	1
Chloroethane	ND	vs	5.5	1.2	ug/Kg	☆	05/29/25 18:02	05/30/25 01:24	1
Chloroform	0.47	J B vs	5.5	0.34	ug/Kg	☆	05/29/25 18:02	05/30/25 01:24	1
Chloromethane	ND	vs	5.5	0.33	ug/Kg	☆	05/29/25 18:02	05/30/25 01:24	1
cis-1,2-Dichloroethene	ND	vs	5.5	0.70	ug/Kg	☆	05/29/25 18:02	05/30/25 01:24	1
Cyclohexane	0.79	J F1 vs	5.5	0.77	ug/Kg	☆	05/29/25 18:02	05/30/25 01:24	1
Bromodichloromethane	ND	vs	5.5	0.73	ug/Kg	☆	05/29/25 18:02	05/30/25 01:24	1
Dichlorodifluoromethane	ND	vs	5.5	0.45	ug/Kg	☆	05/29/25 18:02	05/30/25 01:24	1
Ethylbenzene	ND	F1 vs	5.5	0.38	ug/Kg	☆	05/29/25 18:02	05/30/25 01:24	1
1,2-Dibromoethane	ND	F1 vs	5.5	0.70	ug/Kg	☆	05/29/25 18:02	05/30/25 01:24	1
Isopropylbenzene	ND	F1 vs	5.5	0.83	ug/Kg	☆	05/29/25 18:02	05/30/25 01:24	1
Methyl acetate	ND	vs	27	3.3	ug/Kg	☆	05/29/25 18:02	05/30/25 01:24	1
Methyl tert-butyl ether	ND	vs	5.5	0.54	ug/Kg	☆	05/29/25 18:02	05/30/25 01:24	1
Methylcyclohexane	1.3	J F1 vs	5.5	0.83	ug/Kg	☆	05/29/25 18:02	05/30/25 01:24	1
Methylene Chloride	3.4	J vs	5.5	2.5	ug/Kg	☆	05/29/25 18:02	05/30/25 01:24	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-5

Lab Sample ID: 480-229745-9

Date Collected: 05/28/25 10:30

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 89.9

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND	F1 vs	5.5	0.74	ug/Kg	☼	05/29/25 18:02	05/30/25 01:24	1
Toluene	0.54	J F1 vs	5.5	0.41	ug/Kg	☼	05/29/25 18:02	05/30/25 01:24	1
trans-1,2-Dichloroethene	ND	vs	5.5	0.57	ug/Kg	☼	05/29/25 18:02	05/30/25 01:24	1
trans-1,3-Dichloropropene	ND	F1 vs	5.5	2.4	ug/Kg	☼	05/29/25 18:02	05/30/25 01:24	1
Trichloroethene	ND	vs	5.5	1.2	ug/Kg	☼	05/29/25 18:02	05/30/25 01:24	1
Trichlorofluoromethane	ND	vs	5.5	0.52	ug/Kg	☼	05/29/25 18:02	05/30/25 01:24	1
Vinyl chloride	ND	vs	5.5	0.67	ug/Kg	☼	05/29/25 18:02	05/30/25 01:24	1
Xylenes, Total	ND	F1 vs	11	0.92	ug/Kg	☼	05/29/25 18:02	05/30/25 01:24	1
cis-1,3-Dichloropropene	ND	F1 vs	5.5	0.79	ug/Kg	☼	05/29/25 18:02	05/30/25 01:24	1
Styrene	ND	F1 vs	5.5	0.27	ug/Kg	☼	05/29/25 18:02	05/30/25 01:24	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼		N/A	05/29/25 18:02	05/30/25 01:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		64 - 126	05/29/25 18:02	05/30/25 01:24	1
4-Bromofluorobenzene (Surr)	107		72 - 126	05/29/25 18:02	05/30/25 01:24	1
Toluene-d8 (Surr)	90		71 - 125	05/29/25 18:02	05/30/25 01:24	1
Dibromofluoromethane (Surr)	109		60 - 140	05/29/25 18:02	05/30/25 01:24	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		110	41	ug/Kg	☼	05/29/25 13:56	05/30/25 15:56	1
2,4,5-Trichlorophenol	ND		190	38	ug/Kg	☼	05/29/25 13:56	05/30/25 15:56	1
2,4,6-Trichlorophenol	ND		190	28	ug/Kg	☼	05/29/25 13:56	05/30/25 15:56	1
2,4-Dichlorophenol	ND		190	37	ug/Kg	☼	05/29/25 13:56	05/30/25 15:56	1
2,4-Dimethylphenol	ND		190	39	ug/Kg	☼	05/29/25 13:56	05/30/25 15:56	1
2,4-Dinitrophenol	ND		1800	36	ug/Kg	☼	05/29/25 13:56	05/30/25 15:56	1
2,4-Dinitrotoluene	ND		190	25	ug/Kg	☼	05/29/25 13:56	05/30/25 15:56	1
2,6-Dinitrotoluene	ND	F1	190	27	ug/Kg	☼	05/29/25 13:56	05/30/25 15:56	1
2-Chloronaphthalene	ND		190	35	ug/Kg	☼	05/29/25 13:56	05/30/25 15:56	1
2-Chlorophenol	ND		190	29	ug/Kg	☼	05/29/25 13:56	05/30/25 15:56	1
2-Methylnaphthalene	ND		190	29	ug/Kg	☼	05/29/25 13:56	05/30/25 15:56	1
2-Methylphenol	ND		190	30	ug/Kg	☼	05/29/25 13:56	05/30/25 15:56	1
2-Nitroaniline	ND		370	32	ug/Kg	☼	05/29/25 13:56	05/30/25 15:56	1
2-Nitrophenol	ND		190	21	ug/Kg	☼	05/29/25 13:56	05/30/25 15:56	1
3,3'-Dichlorobenzidine	ND	F1	370	55	ug/Kg	☼	05/29/25 13:56	05/30/25 15:56	1
3-Nitroaniline	ND	F1	370	26	ug/Kg	☼	05/29/25 13:56	05/30/25 15:56	1
4,6-Dinitro-2-methylphenol	ND		370	41	ug/Kg	☼	05/29/25 13:56	05/30/25 15:56	1
4-Bromophenyl phenyl ether	ND		190	32	ug/Kg	☼	05/29/25 13:56	05/30/25 15:56	1
4-Chloro-3-methylphenol	ND		190	38	ug/Kg	☼	05/29/25 13:56	05/30/25 15:56	1
4-Chloroaniline	ND	F1	190	27	ug/Kg	☼	05/29/25 13:56	05/30/25 15:56	1
4-Chlorophenyl phenyl ether	ND		190	39	ug/Kg	☼	05/29/25 13:56	05/30/25 15:56	1
4-Methylphenol	ND		370	34	ug/Kg	☼	05/29/25 13:56	05/30/25 15:56	1
4-Nitroaniline	ND		370	27	ug/Kg	☼	05/29/25 13:56	05/30/25 15:56	1
4-Nitrophenol	ND		370	51	ug/Kg	☼	05/29/25 13:56	05/30/25 15:56	1
Acenaphthene	ND		190	35	ug/Kg	☼	05/29/25 13:56	05/30/25 15:56	1
Acenaphthylene	ND		190	36	ug/Kg	☼	05/29/25 13:56	05/30/25 15:56	1
Acetophenone	ND		190	33	ug/Kg	☼	05/29/25 13:56	05/30/25 15:56	1
Anthracene	ND	F2	190	35	ug/Kg	☼	05/29/25 13:56	05/30/25 15:56	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-5

Lab Sample ID: 480-229745-9

Date Collected: 05/28/25 10:30

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 89.9

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	ND	F1	190	63	ug/Kg	✱	05/29/25 13:56	05/30/25 15:56	1
Benzaldehyde	ND		190	140	ug/Kg	✱	05/29/25 13:56	05/30/25 15:56	1
Benzo[a]anthracene	ND	F2	190	26	ug/Kg	✱	05/29/25 13:56	05/30/25 15:56	1
Benzo[a]pyrene	ND	F2	190	32	ug/Kg	✱	05/29/25 13:56	05/30/25 15:56	1
Benzo[b]fluoranthene	ND	F2	190	25	ug/Kg	✱	05/29/25 13:56	05/30/25 15:56	1
Benzo[g,h,i]perylene	ND	F2	190	33	ug/Kg	✱	05/29/25 13:56	05/30/25 15:56	1
Benzo[k]fluoranthene	ND	F2	190	42	ug/Kg	✱	05/29/25 13:56	05/30/25 15:56	1
Biphenyl	ND		190	35	ug/Kg	✱	05/29/25 13:56	05/30/25 15:56	1
bis (2-chloroisopropyl) ether	ND		190	38	ug/Kg	✱	05/29/25 13:56	05/30/25 15:56	1
Bis(2-chloroethoxy)methane	ND		190	36	ug/Kg	✱	05/29/25 13:56	05/30/25 15:56	1
Bis(2-chloroethyl)ether	ND		190	35	ug/Kg	✱	05/29/25 13:56	05/30/25 15:56	1
Bis(2-ethylhexyl) phthalate	ND		190	41	ug/Kg	✱	05/29/25 13:56	05/30/25 15:56	1
Butyl benzyl phthalate	ND		190	35	ug/Kg	✱	05/29/25 13:56	05/30/25 15:56	1
Caprolactam	ND		190	43	ug/Kg	✱	05/29/25 13:56	05/30/25 15:56	1
Carbazole	ND		190	37	ug/Kg	✱	05/29/25 13:56	05/30/25 15:56	1
Chrysene	ND	F2	190	45	ug/Kg	✱	05/29/25 13:56	05/30/25 15:56	1
Dibenz(a,h)anthracene	ND		190	38	ug/Kg	✱	05/29/25 13:56	05/30/25 15:56	1
Dibenzofuran	ND		190	33	ug/Kg	✱	05/29/25 13:56	05/30/25 15:56	1
Diethyl phthalate	ND	F1	190	34	ug/Kg	✱	05/29/25 13:56	05/30/25 15:56	1
Dimethyl phthalate	ND	F1	190	36	ug/Kg	✱	05/29/25 13:56	05/30/25 15:56	1
Di-n-butyl phthalate	ND		190	42	ug/Kg	✱	05/29/25 13:56	05/30/25 15:56	1
Di-n-octyl phthalate	ND		190	36	ug/Kg	✱	05/29/25 13:56	05/30/25 15:56	1
Fluoranthene	ND	F1 F2	190	34	ug/Kg	✱	05/29/25 13:56	05/30/25 15:56	1
Fluorene	ND		190	34	ug/Kg	✱	05/29/25 13:56	05/30/25 15:56	1
Hexachlorobenzene	ND		190	36	ug/Kg	✱	05/29/25 13:56	05/30/25 15:56	1
Hexachlorobutadiene	ND		190	28	ug/Kg	✱	05/29/25 13:56	05/30/25 15:56	1
Hexachlorocyclopentadiene	ND		370	82	ug/Kg	✱	05/29/25 13:56	05/30/25 15:56	1
Hexachloroethane	ND		190	34	ug/Kg	✱	05/29/25 13:56	05/30/25 15:56	1
Indeno[1,2,3-cd]pyrene	ND	F2	190	28	ug/Kg	✱	05/29/25 13:56	05/30/25 15:56	1
Isophorone	ND		190	38	ug/Kg	✱	05/29/25 13:56	05/30/25 15:56	1
Naphthalene	ND		190	31	ug/Kg	✱	05/29/25 13:56	05/30/25 15:56	1
Nitrobenzene	ND		190	31	ug/Kg	✱	05/29/25 13:56	05/30/25 15:56	1
N-Nitrosodi-n-propylamine	ND		190	42	ug/Kg	✱	05/29/25 13:56	05/30/25 15:56	1
N-Nitrosodiphenylamine	ND		190	31	ug/Kg	✱	05/29/25 13:56	05/30/25 15:56	1
Pentachlorophenol	ND		370	60	ug/Kg	✱	05/29/25 13:56	05/30/25 15:56	1
Phenanthrene	ND	F1 F2	190	35	ug/Kg	✱	05/29/25 13:56	05/30/25 15:56	1
Phenol	ND		190	34	ug/Kg	✱	05/29/25 13:56	05/30/25 15:56	1
Pyrene	ND	F1 F2	190	36	ug/Kg	✱	05/29/25 13:56	05/30/25 15:56	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	1500	T J	ug/Kg	✱	3.35	N/A	05/29/25 13:56	05/30/25 15:56	1
Undecane, 2,6-dimethyl-	420	T J N	ug/Kg	✱	7.33	17301-23-4	05/29/25 13:56	05/30/25 15:56	1
Unknown	400	T J	ug/Kg	✱	7.75	N/A	05/29/25 13:56	05/30/25 15:56	1
Tridecane	530	T J N	ug/Kg	✱	7.95	629-50-5	05/29/25 13:56	05/30/25 15:56	1
Tetradecane	750	T J N	ug/Kg	✱	8.62	629-59-4	05/29/25 13:56	05/30/25 15:56	1
Hexadecane	940	T J N	ug/Kg	✱	9.83	544-76-3	05/29/25 13:56	05/30/25 15:56	1
Dodecane, 5,8-diethyl-	900	T J N	ug/Kg	✱	10.08	24251-86-3	05/29/25 13:56	05/30/25 15:56	1
Eicosane	1400	T J N	ug/Kg	✱	10.35	112-95-8	05/29/25 13:56	05/30/25 15:56	1
Pentadecane, 2,6,10,14-tetramethyl-	1400	T J N	ug/Kg	✱	10.37	1921-70-6	05/29/25 13:56	05/30/25 15:56	1
Dodecane, 2-methyl-6-propyl-	1200	T J N	ug/Kg	✱	10.82	55045-08-4	05/29/25 13:56	05/30/25 15:56	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-5

Lab Sample ID: 480-229745-9

Date Collected: 05/28/25 10:30

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 89.9

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Hexadecane, 2,6,10,14-tetramethyl-	610	T J N	ug/Kg	⊛	10.85	638-36-8	05/29/25 13:56	05/30/25 15:56	1
Octadecane	1100	T J N	ug/Kg	⊛	11.23	593-45-3	05/29/25 13:56	05/30/25 15:56	1
Heptadecane	1100	T J N	ug/Kg	⊛	11.62	629-78-7	05/29/25 13:56	05/30/25 15:56	1
Heneicosane	990	T J N	ug/Kg	⊛	11.96	629-94-7	05/29/25 13:56	05/30/25 15:56	1
Eicosane, 10-methyl-	620	T J N	ug/Kg	⊛	12.59	54833-23-7	05/29/25 13:56	05/30/25 15:56	1
Nonadecane	600	T J N	ug/Kg	⊛	12.89	629-92-5	05/29/25 13:56	05/30/25 15:56	1
Octacosane	560	T J N	ug/Kg	⊛	13.17	630-02-4	05/29/25 13:56	05/30/25 15:56	1
Hexacosane	450	T J N	ug/Kg	⊛	13.43	630-01-3	05/29/25 13:56	05/30/25 15:56	1
Tridecane, 1-iodo-	420	T J N	ug/Kg	⊛	13.69	35599-77-0	05/29/25 13:56	05/30/25 15:56	1
Nonacosane	340	T J N	ug/Kg	⊛	13.95	630-03-5	05/29/25 13:56	05/30/25 15:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	47		10 - 140	05/29/25 13:56	05/30/25 15:56	1
2-Fluorobiphenyl (Surr)	55		29 - 120	05/29/25 13:56	05/30/25 15:56	1
2-Fluorophenol (Surr)	46		18 - 120	05/29/25 13:56	05/30/25 15:56	1
Nitrobenzene-d5 (Surr)	51		22 - 120	05/29/25 13:56	05/30/25 15:56	1
Phenol-d5 (Surr)	48		23 - 120	05/29/25 13:56	05/30/25 15:56	1
p-Terphenyl-d14 (Surr)	59		28 - 124	05/29/25 13:56	05/30/25 15:56	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	F2 F1	3.7	0.72	ug/Kg	⊛	05/30/25 13:55	06/02/25 13:23	1
4,4'-DDE	ND	F2 F1	3.7	0.77	ug/Kg	⊛	05/30/25 13:55	06/02/25 13:23	1
4,4'-DDT	ND	F2 F1	3.7	0.86	ug/Kg	⊛	05/30/25 13:55	06/02/25 13:23	1
beta-BHC	ND	F2 F1	3.7	0.66	ug/Kg	⊛	05/30/25 13:55	06/02/25 13:23	1
cis-Chlordane	ND	F2 F1	3.7	1.8	ug/Kg	⊛	05/30/25 13:55	06/02/25 13:23	1
alpha-BHC	ND	F2 F1	3.7	0.66	ug/Kg	⊛	05/30/25 13:55	06/02/25 13:23	1
Aldrin	ND	F2 F1	3.7	0.90	ug/Kg	⊛	05/30/25 13:55	06/02/25 13:23	1
delta-BHC	ND	F2 F1	3.7	0.68	ug/Kg	⊛	05/30/25 13:55	06/02/25 13:23	1
Dieldrin	ND	F2 F1	3.7	0.88	ug/Kg	⊛	05/30/25 13:55	06/02/25 13:23	1
Endosulfan I	ND	F2 F1	3.7	0.71	ug/Kg	⊛	05/30/25 13:55	06/02/25 13:23	1
Endosulfan II	ND	F2 F1	3.7	0.66	ug/Kg	⊛	05/30/25 13:55	06/02/25 13:23	1
Endosulfan sulfate	ND	F2 F1	3.7	0.69	ug/Kg	⊛	05/30/25 13:55	06/02/25 13:23	1
Endrin	ND	F2 F1	3.7	0.73	ug/Kg	⊛	05/30/25 13:55	06/02/25 13:23	1
Endrin aldehyde	ND	F2 F1	3.7	0.94	ug/Kg	⊛	05/30/25 13:55	06/02/25 13:23	1
Endrin ketone	ND	F1	3.7	0.90	ug/Kg	⊛	05/30/25 13:55	06/02/25 13:23	1
gamma-BHC (Lindane)	ND	F2 F1	3.7	0.68	ug/Kg	⊛	05/30/25 13:55	06/02/25 13:23	1
trans-Chlordane	ND	F2	3.7	1.2	ug/Kg	⊛	05/30/25 13:55	06/02/25 13:23	1
Heptachlor	ND	F2 F1	3.7	0.80	ug/Kg	⊛	05/30/25 13:55	06/02/25 13:23	1
Heptachlor epoxide	ND	F2 F1	3.7	0.95	ug/Kg	⊛	05/30/25 13:55	06/02/25 13:23	1
Methoxychlor	3.4	J F2 F1	3.7	0.75	ug/Kg	⊛	05/30/25 13:55	06/02/25 13:23	1
Toxaphene	ND		37	21	ug/Kg	⊛	05/30/25 13:55	06/02/25 13:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	46		45 - 120	05/30/25 13:55	06/02/25 13:23	1
DCB Decachlorobiphenyl	54		45 - 120	05/30/25 13:55	06/02/25 13:23	1
Tetrachloro-m-xylene	40		30 - 124	05/30/25 13:55	06/02/25 13:23	1
Tetrachloro-m-xylene	38		30 - 124	05/30/25 13:55	06/02/25 13:23	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-5

Lab Sample ID: 480-229745-9

Date Collected: 05/28/25 10:30

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 89.9

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.27	0.053	mg/Kg	✱	05/30/25 13:30	06/02/25 11:33	1
PCB-1221	ND		0.27	0.053	mg/Kg	✱	05/30/25 13:30	06/02/25 11:33	1
PCB-1232	ND		0.27	0.053	mg/Kg	✱	05/30/25 13:30	06/02/25 11:33	1
PCB-1242	ND		0.27	0.053	mg/Kg	✱	05/30/25 13:30	06/02/25 11:33	1
PCB-1248	ND		0.27	0.053	mg/Kg	✱	05/30/25 13:30	06/02/25 11:33	1
PCB-1254	ND		0.27	0.13	mg/Kg	✱	05/30/25 13:30	06/02/25 11:33	1
PCB-1260	ND		0.27	0.13	mg/Kg	✱	05/30/25 13:30	06/02/25 11:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	90		60 - 154	05/30/25 13:30	06/02/25 11:33	1
Tetrachloro-m-xylene	80		60 - 154	05/30/25 13:30	06/02/25 11:33	1
DCB Decachlorobiphenyl	90		65 - 174	05/30/25 13:30	06/02/25 11:33	1
DCB Decachlorobiphenyl	90		65 - 174	05/30/25 13:30	06/02/25 11:33	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.38	0.12	ng/g	✱	06/02/25 14:18	06/03/25 19:09	1
Perfluoropentanoic acid (PFPeA)	ND		0.19	0.048	ng/g	✱	06/02/25 14:18	06/03/25 19:09	1
Perfluorohexanoic acid (PFHxA)	ND		0.19	0.058	ng/g	✱	06/02/25 14:18	06/03/25 19:09	1
Perfluoroheptanoic acid (PFHpA)	ND		0.19	0.067	ng/g	✱	06/02/25 14:18	06/03/25 19:09	1
Perfluorooctanoic acid (PFOA)	ND		0.19	0.058	ng/g	✱	06/02/25 14:18	06/03/25 19:09	1
Perfluorononanoic acid (PFNA)	ND		0.19	0.058	ng/g	✱	06/02/25 14:18	06/03/25 19:09	1
Perfluorodecanoic acid (PFDA)	ND		0.19	0.048	ng/g	✱	06/02/25 14:18	06/03/25 19:09	1
Perfluoroundecanoic acid (PFUnA)	ND		0.19	0.048	ng/g	✱	06/02/25 14:18	06/03/25 19:09	1
Perfluorododecanoic acid (PFDoA)	ND		0.19	0.048	ng/g	✱	06/02/25 14:18	06/03/25 19:09	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.19	0.067	ng/g	✱	06/02/25 14:18	06/03/25 19:09	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.19	0.067	ng/g	✱	06/02/25 14:18	06/03/25 19:09	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.19	0.067	ng/g	✱	06/02/25 14:18	06/03/25 19:09	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.19	0.058	ng/g	✱	06/02/25 14:18	06/03/25 19:09	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.19	0.048	ng/g	✱	06/02/25 14:18	06/03/25 19:09	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.19	0.067	ng/g	✱	06/02/25 14:18	06/03/25 19:09	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.19	0.11	ng/g	✱	06/02/25 14:18	06/03/25 19:09	1
Perfluorononanesulfonic acid (PFNS)	ND		0.19	0.067	ng/g	✱	06/02/25 14:18	06/03/25 19:09	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.19	0.048	ng/g	✱	06/02/25 14:18	06/03/25 19:09	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.19	0.058	ng/g	✱	06/02/25 14:18	06/03/25 19:09	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.38	0.096	ng/g	✱	06/02/25 14:18	06/03/25 19:09	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.38	0.12	ng/g	✱	06/02/25 14:18	06/03/25 19:09	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.38	0.12	ng/g	✱	06/02/25 14:18	06/03/25 19:09	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.19	0.086	ng/g	✱	06/02/25 14:18	06/03/25 19:09	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.19	0.086	ng/g	✱	06/02/25 14:18	06/03/25 19:09	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.19	0.096	ng/g	✱	06/02/25 14:18	06/03/25 19:09	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.19	0.077	ng/g	✱	06/02/25 14:18	06/03/25 19:09	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-5

Lab Sample ID: 480-229745-9

Date Collected: 05/28/25 10:30

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 89.9

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.19	0.11	ng/g	☼	06/02/25 14:18	06/03/25 19:09	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.19	0.11	ng/g	☼	06/02/25 14:18	06/03/25 19:09	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.19	0.058	ng/g	☼	06/02/25 14:18	06/03/25 19:09	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.19	0.067	ng/g	☼	06/02/25 14:18	06/03/25 19:09	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.19	0.048	ng/g	☼	06/02/25 14:18	06/03/25 19:09	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.19	0.067	ng/g	☼	06/02/25 14:18	06/03/25 19:09	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND	F1	0.19	0.077	ng/g	☼	06/02/25 14:18	06/03/25 19:09	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.19	0.048	ng/g	☼	06/02/25 14:18	06/03/25 19:09	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.38	0.19	ng/g	☼	06/02/25 14:18	06/03/25 19:09	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		0.96	0.48	ng/g	☼	06/02/25 14:18	06/03/25 19:09	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		0.96	0.38	ng/g	☼	06/02/25 14:18	06/03/25 19:09	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	92.5		8 - 130	06/02/25 14:18	06/03/25 19:09	1
13C5-PFPeA	92.8		35 - 130	06/02/25 14:18	06/03/25 19:09	1
13C5-PFHxA	90.0		40 - 130	06/02/25 14:18	06/03/25 19:09	1
13C4-PFHpA	94.0		40 - 130	06/02/25 14:18	06/03/25 19:09	1
13C8-PFOA	86.1		40 - 130	06/02/25 14:18	06/03/25 19:09	1
13C9-PFNA	82.7		40 - 130	06/02/25 14:18	06/03/25 19:09	1
13C6-PFDA	73.6		40 - 130	06/02/25 14:18	06/03/25 19:09	1
13C7-PFUnA	61.3		40 - 130	06/02/25 14:18	06/03/25 19:09	1
13C2-PFTeDA	46.3		20 - 130	06/02/25 14:18	06/03/25 19:09	1
13C3-PFBS	85.6		40 - 135	06/02/25 14:18	06/03/25 19:09	1
13C3-PFHxS	77.7		40 - 130	06/02/25 14:18	06/03/25 19:09	1
13C8-PFOS	58.5		40 - 130	06/02/25 14:18	06/03/25 19:09	1
13C8-PFOSA	67.7		40 - 130	06/02/25 14:18	06/03/25 19:09	1
d3-NMeFOSAA	70.6		40 - 135	06/02/25 14:18	06/03/25 19:09	1
d5-NEtFOSAA	58.9		40 - 150	06/02/25 14:18	06/03/25 19:09	1
13C2 4:2 FTS	90.5		40 - 165	06/02/25 14:18	06/03/25 19:09	1
13C2 6:2 FTS	96.2		40 - 215	06/02/25 14:18	06/03/25 19:09	1
13C2 8:2 FTS	72.9		40 - 275	06/02/25 14:18	06/03/25 19:09	1
13C3-HFPO-DA	86.6		40 - 130	06/02/25 14:18	06/03/25 19:09	1
d5-NEtPFOSA	44.7		10 - 130	06/02/25 14:18	06/03/25 19:09	1
d3-NMePFOSA	53.1		10 - 130	06/02/25 14:18	06/03/25 19:09	1
13C2 PFDoA	51.2		40 - 130	06/02/25 14:18	06/03/25 19:09	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		0.98	0.29	ng/g	☼	06/04/25 14:32	06/05/25 13:52	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		0.98	0.29	ng/g	☼	06/04/25 14:32	06/05/25 13:52	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-5

Lab Sample ID: 480-229745-9

Date Collected: 05/28/25 10:30

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 89.9

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid (9Cl-PF3ONS)	ND	F2 F1	0.20	0.088	ng/g	☆	06/04/25 14:32	06/05/25 13:52	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3-HFPO-DA	135	*5+	40 - 130				06/04/25 14:32	06/05/25 13:52	1
D7-NMeFOSE	103		20 - 130				06/04/25 14:32	06/05/25 13:52	1
D9-NEtFOSE	105		15 - 130				06/04/25 14:32	06/05/25 13:52	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9890		11.4	9.8	mg/Kg	☆	05/29/25 15:23	05/30/25 21:59	1
Antimony	ND	F1	17.1	0.60	mg/Kg	☆	05/29/25 15:23	05/30/25 21:59	1
Arsenic	8.6		2.3	1.0	mg/Kg	☆	05/29/25 15:23	05/30/25 21:59	1
Barium	249	F1	0.57	0.16	mg/Kg	☆	05/29/25 15:23	05/30/25 21:59	1
Beryllium	0.50	^5- B	0.23	0.046	mg/Kg	☆	05/29/25 15:23	05/30/25 21:59	1
Cadmium	0.36		0.23	0.080	mg/Kg	☆	05/29/25 15:23	05/30/25 21:59	1
Calcium	26400		57.0	30.7	mg/Kg	☆	05/29/25 15:23	06/04/25 19:02	1
Chromium	14.1		0.57	0.41	mg/Kg	☆	05/29/25 15:23	05/30/25 21:59	1
Cobalt	10.7		0.57	0.11	mg/Kg	☆	05/29/25 15:23	05/30/25 21:59	1
Copper	33.4		1.1	0.65	mg/Kg	☆	05/29/25 15:23	05/30/25 21:59	1
Iron	23300	^2 ^+	11.4	9.7	mg/Kg	☆	05/29/25 15:23	05/30/25 21:59	1
Lead	16.9		1.1	0.52	mg/Kg	☆	05/29/25 15:23	05/30/25 21:59	1
Magnesium	7270		22.8	9.7	mg/Kg	☆	05/29/25 15:23	05/30/25 21:59	1
Manganese	333	B	1.1	0.32	mg/Kg	☆	05/29/25 15:23	06/04/25 19:02	1
Nickel	28.4	^5-	5.7	0.28	mg/Kg	☆	05/29/25 15:23	05/30/25 21:59	1
Potassium	2120	F1	34.2	27.6	mg/Kg	☆	05/29/25 15:23	05/30/25 21:59	1
Selenium	ND	F1	4.6	0.91	mg/Kg	☆	05/29/25 15:23	05/30/25 21:59	1
Silver	ND	^5-	0.68	0.23	mg/Kg	☆	05/29/25 15:23	06/04/25 19:02	1
Sodium	121	J	159	69.8	mg/Kg	☆	05/29/25 15:23	06/04/25 19:02	1
Thallium	ND		6.8	0.87	mg/Kg	☆	05/29/25 15:23	05/30/25 21:59	1
Vanadium	15.9		0.57	0.15	mg/Kg	☆	05/29/25 15:23	05/30/25 21:59	1
Zinc	158	^5- F1 F2	2.3	1.2	mg/Kg	☆	05/29/25 15:23	05/30/25 21:59	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.023	0.0053	mg/Kg	☆	05/30/25 13:38	05/30/25 16:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND	F1	1.1	0.51	mg/Kg	☆	06/04/25 12:18	06/04/25 16:29	1

Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (64-126)	BFB (72-126)	TOL (71-125)	DBFM (60-140)
480-229745-1	RI-BH-9	101	108	91	108
480-229745-2	RI-BH-10	104	105	89	107
480-229745-2 MS	RI-BH-10	91	103	91	107
480-229745-2 MSD	RI-BH-10	86	104	91	105
480-229745-3	RI-MW-1	101	83	116	105
480-229745-3 MS	RI-MW-1-MS	87	80	116	97
480-229745-3 MSD	RI-MW-1-MSD	96	73 *3	125 *3	112
480-229745-4	RI-MW-2	104	107	90	109
480-229745-5	RI-MW-3	100	106	89	105
480-229745-6	RI-MW-3-DUP	101	107	90	107
480-229745-7	RI-MW-4	106	108	90	111
480-229745-8	RI-MW-4-DUP	103	105	90	106
480-229745-9	RI-MW-5	105	107	90	109
480-229745-9 MS	RI-MW-5-MS	91	103	92	103
480-229745-9 MSD	RI-MW-5-MSD	91	105	93	106
LCS 480-747439/1-A	Lab Control Sample	99	106	92	106
LCS 480-747608/1-A	Lab Control Sample	100	101	102	104
MB 480-747439/2-A	Method Blank	100	105	89	109
MB 480-747608/2-A	Method Blank	97	103	100	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (10-140)	FBP (29-120)	2FP (18-120)	NBZ (22-120)	PHL (23-120)	TPHd14 (28-124)
480-229745-1	RI-BH-9	71	72	59	68	61	67
480-229745-2	RI-BH-10	57	50	42	46	45	55
480-229745-3	RI-MW-1	56	63	54	56	58	65
480-229745-3 MS	RI-MW-1-MS	78	70	58	63	63	77
480-229745-3 MSD	RI-MW-1-MSD	83	70	57	61	61	79
480-229745-4	RI-MW-2	70	68	57	65	55	63
480-229745-5	RI-MW-3	63	67	54	60	56	70
480-229745-6	RI-MW-3-DUP	70	78	65	72	65	74
480-229745-7	RI-MW-4	57	62	53	57	55	63
480-229745-8	RI-MW-4-DUP	75	82	68	74	73	81
480-229745-9	RI-MW-5	47	55	46	51	48	59
480-229745-9 MS	RI-MW-5-MS	71	64	56	63	59	69
480-229745-9 MSD	RI-MW-5-MSD	71	63	56	61	59	67
LCS 480-747407/2-A	Lab Control Sample	87	73	57	64	63	88
MB 480-747407/1-A	Method Blank	70	76	65	68	70	91

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)

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Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC

Job ID: 480-229745-1

Project/Site: 166 E 4th Street

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1 (45-120)	DCBP2 (45-120)	TCX1 (30-124)	TCX2 (30-124)
480-229745-1	RI-BH-9	0 S1-	0 S1-	0 S1-	0 S1-
480-229745-2	RI-BH-10	95	97	76	77
480-229745-3	RI-MW-1	168 S1+	166 S1+	0 S1-	0 S1-
480-229745-3 MS	RI-MW-1-MS	117	119	0 S1-	0 S1-
480-229745-3 MSD	RI-MW-1-MSD	0 S1-	0 S1-	0 S1-	0 S1-
480-229745-4	RI-MW-2	54	57	57	50
480-229745-5	RI-MW-3	29 S1-	29 S1-	45	45
480-229745-6	RI-MW-3-DUP	27 S1-	28 S1-	50	49
480-229745-7	RI-MW-4	27 S1-	29 S1-	38	35
480-229745-8	RI-MW-4-DUP	60	57	66	52
480-229745-9	RI-MW-5	46	54	40	38
480-229745-9 MS	RI-MW-5-MS	37 S1-	46	40	35
480-229745-9 MSD	RI-MW-5-MSD	17 S1-	15 S1-	29 S1-	28 S1-
LCS 480-747547/2-A	Lab Control Sample	72	78	69	69
MB 480-747547/1-A	Method Blank	77	80	70	71

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TCX1 (60-154)	TCX2 (60-154)	DCBP1 (65-174)	DCBP2 (65-174)
480-229745-1	RI-BH-9	126	111	122	120
480-229745-2	RI-BH-10	144	130	138	137
480-229745-3	RI-MW-1	134	117	127	128
480-229745-3 MS	RI-MW-1-MS	185 S1+	158 S1+	186 S1+	174
480-229745-3 MSD	RI-MW-1-MSD	170 S1+	150	174	168
480-229745-4	RI-MW-2	130	114	128	125
480-229745-5	RI-MW-3	119	108	131	124
480-229745-6	RI-MW-3-DUP	138	123	146	134
480-229745-7	RI-MW-4	123	113	125	118
480-229745-8	RI-MW-4-DUP	131	118	130	123
480-229745-9	RI-MW-5	90	80	90	90
480-229745-9 MS	RI-MW-5-MS	180 S1+	152	177 S1+	166
480-229745-9 MSD	RI-MW-5-MSD	175 S1+	155 S1+	174	170
LCS 480-747543/2-A	Lab Control Sample	167 S1+	150	170	169
MB 480-747543/1-A	Method Blank	156 S1+	139	165	162

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

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Isotope Dilution Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (8-130)	PFPeA (35-130)	13C5PHA (40-130)	C4PFHA (40-130)	C8PFOA (40-130)	C9PFNA (40-130)	C6PFDA (40-130)	13C7PUA (40-130)
480-229745-1	RI-BH-9	64.6	70.5	66.6	65.7	68.1	66.7	64.5	63.2
480-229745-2	RI-BH-10	96.1	101	96.6	98.5	97.1	92.2	97.1	98.3
480-229745-3	RI-MW-1	95.7	104	99.1	98.2	97.0	96.0	102	101
480-229745-3 MS	RI-MW-1-MS	95.6	104	100	97.6	97.5	95.1	95.3	102
480-229745-3 MSD	RI-MW-1-MSD	92.2	101	94.1	95.2	93.7	90.4	94.2	107
480-229745-4	RI-MW-2	88.2	98.4	96.7	96.8	92.2	92.8	95.5	103
480-229745-5	RI-MW-3	90.4	95.6	92.8	92.4	93.8	91.8	94.7	104
480-229745-6	RI-MW-3-DUP	65.7	69.1	69.5	69.7	71.6	73.3	78.8	88.0
480-229745-7	RI-MW-4	74.6	81.8	77.0	75.9	78.0	76.9	78.2	85.6
480-229745-8	RI-MW-4-DUP	88.6	93.7	87.9	89.7	81.0	75.9	69.5	69.4
480-229745-8 - RE	RI-MW-4-DUP								
480-229745-9	RI-MW-5	92.5	92.8	90.0	94.0	86.1	82.7	73.6	61.3
480-229745-9 - RE	RI-MW-5								
480-229745-9 MS	RI-MW-5-MS	87.5	93.1	89.6	88.0	79.5	80.8	74.1	64.6
480-229745-9 MS - RE	RI-MW-5-MS								
480-229745-9 MSD	RI-MW-5-MSD	85.0	88.9	85.5	87.4	76.6	74.8	69.0	61.1
480-229745-9 MSD - RE	RI-MW-5-MSD								
LCS 410-651525/2-A	Lab Control Sample	94.6	97.8	96.3	98.7	93.6	92.8	98.1	110
LCS 410-651747/2-A	Lab Control Sample	97.0	102	97.1	95.7	87.0	88.1	85.7	91.4
LCS 410-652946/2-A	Lab Control Sample	120	117	121	112	107	102	120	105
LLCS 410-651525/3-A	Lab Control Sample	90.5	101	96.0	91.5	94.4	91.1	91.1	95.6
LLCS 410-651747/3-A	Lab Control Sample	96.0	99.2	94.7	93.5	83.9	76.3	70.3	64.6
LLCS 410-652946/3-A	Lab Control Sample	107	109	105	105	102	100	99.3	94.7
MB 410-651525/1-A	Method Blank	78.1	80.8	77.7	78.6	77.4	75.3	75.1	80.8
MB 410-651747/1-A	Method Blank	94.4	96.5	94.7	93.2	85.2	89.1	87.8	92.1
MB 410-652946/1-A	Method Blank	44.2	60.7	81.7	79.8	74.3	81.8	80.1	84.5
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFTDA (20-130)	C3PFBS (40-135)	C3PFHS (40-130)	C8PFOS (40-130)	PFOSA (40-130)	d3NMFOS (40-135)	d5NEFOS (40-150)	M242FTS (40-165)
480-229745-1	RI-BH-9	79.3	55.9	60.1	57.8	73.2	76.0	73.6	59.6
480-229745-2	RI-BH-10	107	92.2	93.5	94.3	109	89.2	89.6	129
480-229745-3	RI-MW-1	96.3	90.2	98.4	95.1	108	93.3	102	105
480-229745-3 MS	RI-MW-1-MS	108	90.4	90.5	92.7	120	89.9	99.5	100
480-229745-3 MSD	RI-MW-1-MSD	106	89.4	93.4	91.9	114	85.9	90.9	93.8
480-229745-4	RI-MW-2	106	93.7	98.1	95.2	115	87.0	98.4	119
480-229745-5	RI-MW-3	112	83.3	92.4	90.0	113	90.9	95.9	102
480-229745-6	RI-MW-3-DUP	98.2	71.2	75.4	81.7	88.9	82.4	86.5	81.7
480-229745-7	RI-MW-4	95.2	77.7	81.4	81.6	80.4	77.4	79.6	85.9
480-229745-8	RI-MW-4-DUP	62.3	82.5	75.5	66.4	68.1	65.1	52.3	84.4
480-229745-8 - RE	RI-MW-4-DUP								
480-229745-9	RI-MW-5	46.3	85.6	77.7	58.5	67.7	70.6	58.9	90.5
480-229745-9 - RE	RI-MW-5								
480-229745-9 MS	RI-MW-5-MS	37.3	80.4	72.4	57.9	65.3	77.5	61.2	77.5
480-229745-9 MS - RE	RI-MW-5-MS								
480-229745-9 MSD	RI-MW-5-MSD	41.0	79.4	66.1	47.5	65.1	69.5	59.7	90.0
480-229745-9 MSD - RE	RI-MW-5-MSD								
LCS 410-651525/2-A	Lab Control Sample	89.4	96.1	100	98.3	112	89.0	98.5	109
LCS 410-651747/2-A	Lab Control Sample	75.0	92.2	87.5	85.4	75.2	81.4	66.4	93.4
LCS 410-652946/2-A	Lab Control Sample	83.8	110	102	101	85.0	104	101	112

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Isotope Dilution Summary

Client: Brydges Engineering in Environment & Energy DPC

Job ID: 480-229745-1

Project/Site: 166 E 4th Street

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFTDA (20-130)	C3PFBS (40-135)	C3PFHS (40-130)	C8PFOS (40-130)	PFOSA (40-130)	d3NMFOS (40-135)	d5NEFOS (40-150)	M242FTS (40-165)
LLCS 410-651525/3-A	Lab Control Sample	122	92.0	95.8	90.1	96.8	89.0	91.1	107
LLCS 410-651747/3-A	Lab Control Sample	56.9	88.1	75.9	56.2	68.6	66.0	53.1	90.4
LLCS 410-652946/3-A	Lab Control Sample	73.4	103	99.2	100	82.2	96.0	98.1	110
MB 410-651525/1-A	Method Blank	91.5	75.1	77.2	74.3	87.0	82.4	83.4	88.3
MB 410-651747/1-A	Method Blank	71.3	87.2	85.5	81.7	74.3	74.4	62.3	90.3
MB 410-652946/1-A	Method Blank	64.7	73.9	82.6	85.1	73.1	84.7	94.9	80.3

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M262FTS (40-215)	M282FTS (40-275)	HFPODA (40-130)	NMFM (20-130)	NEFM (15-130)	d5NPFSA (10-130)	d3NMFSA (10-130)	PFDaA (40-130)
480-229745-1	RI-BH-9	86.3	61.1	70.3	73.6	67.1	66.2	65.4	59.7
480-229745-2	RI-BH-10	133	110	97.4	94.8	84.0	81.3	84.2	91.6
480-229745-3	RI-MW-1	135	114	98.1	99.8	92.7	85.8	89.1	85.0
480-229745-3 MS	RI-MW-1-MS	118	95.9	104	98.7	99.5	88.5	87.8	91.4
480-229745-3 MSD	RI-MW-1-MSD	109	96.1	101	96.4	93.1	84.6	80.8	94.1
480-229745-4	RI-MW-2	136	110	98.4	95.3	93.4	85.4	90.4	93.2
480-229745-5	RI-MW-3	121	101	96.7	95.1	92.1	85.0	89.0	92.0
480-229745-6	RI-MW-3-DUP	96.7	93.9	70.5	88.2	89.1	76.4	72.0	81.0
480-229745-7	RI-MW-4	106	88.5	81.4	79.0	75.5	73.7	74.4	75.7
480-229745-8	RI-MW-4-DUP	95.0	65.5	84.6	29.9	25.5	49.6	55.9	64.5
480-229745-8 - RE	RI-MW-4-DUP			112					
480-229745-9	RI-MW-5	96.2	72.9	86.6			44.7	53.1	51.2
480-229745-9 - RE	RI-MW-5			135 *5+	103	105			
480-229745-9 MS	RI-MW-5-MS	87.5	67.3	85.1			41.9	51.7	50.3
480-229745-9 MS - RE	RI-MW-5-MS			108	20.2	11.0 *5-			
480-229745-9 MSD	RI-MW-5-MSD	94.9	70.7	80.0			44.1	53.7	52.9
480-229745-9 MSD - RE	RI-MW-5-MSD			80.6	30.0	20.8			
LCS 410-651525/2-A	Lab Control Sample	127	103	102	89.8	85.2	82.5	86.1	98.8
LCS 410-651747/2-A	Lab Control Sample	105	80.7	90.9	36.0	27.3	52.6	60.7	87.2
LCS 410-652946/2-A	Lab Control Sample	110	104	111	54.0	44.8	62.2	71.6	92.9
LLCS 410-651525/3-A	Lab Control Sample	126	103	100	87.6	83.8	83.2	78.0	87.0
LLCS 410-651747/3-A	Lab Control Sample	101	73.5	92.5	35.2	31.1	44.0	51.5	63.6
LLCS 410-652946/3-A	Lab Control Sample	103	100	101	53.8	46.9	61.4	70.6	83.8
MB 410-651525/1-A	Method Blank	110	96.3	84.4	79.0	72.8	71.3	71.1	71.1
MB 410-651747/1-A	Method Blank	99.3	79.3	90.0	43.9	34.3	54.1	62.7	82.5
MB 410-652946/1-A	Method Blank	88.7	83.9	80.6	52.4	49.0	68.3	72.0	80.0

Surrogate Legend

PFBA = 13C4-PFBA
 PFPeA = 13C5-PFPeA
 13C5PHA = 13C5-PFHxA
 C4PFHA = 13C4-PFHpA
 C8PFOA = 13C8-PFOA
 C9PFNA = 13C9-PFNA
 C6PFDA = 13C6-PFDA
 13C7PUA = 13C7-PFUnA
 PFTDA = 13C2-PFTeDA
 C3PFBS = 13C3-PFBS
 C3PFHS = 13C3-PFHxS
 C8PFOS = 13C8-PFOS
 PFOSA = 13C8-PFOSA

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Isotope Dilution Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

- d3NMFOS = d3-NMeFOSAA
- d5NEFOS = d5-NEtFOSAA
- M242FTS = 13C2 4:2 FTS
- M262FTS = 13C2 6:2 FTS
- M282FTS = 13C2 8:2 FTS
- HFPODA = 13C3-HFPO-DA
- NMFM = D7-NMeFOSE
- NEFM = D9-NEtFOSE
- d5NPFSA = d5-NEtPFOSA
- d3NMFSA = d3-NMePFOSA
- PFDaA = 13C2 PFDaA

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-747439/2-A

Matrix: Solid

Analysis Batch: 747444

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747439

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
2-Hexanone	ND		25	2.5	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
Acetone	ND		25	4.2	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
Benzene	ND		5.0	0.25	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
Bromoform	ND		5.0	2.5	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
Bromomethane	ND		5.0	0.45	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
Chloroethane	ND		5.0	1.1	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
Chloroform	0.438	J	5.0	0.31	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
Chloromethane	ND		5.0	0.30	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
Cyclohexane	ND		5.0	0.70	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
Methyl acetate	ND		25	3.0	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
Toluene	ND		5.0	0.38	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
Trichloroethene	ND		5.0	1.1	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
Xylenes, Total	ND		10	0.84	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		05/29/25 18:02	05/29/25 21:28	1
Styrene	ND		5.0	0.25	ug/Kg		05/29/25 18:02	05/29/25 21:28	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-747439/2-A

Matrix: Solid

Analysis Batch: 747444

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747439

	MB	MB							
Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg			N/A	05/29/25 18:02	05/29/25 21:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		64 - 126				05/29/25 18:02	05/29/25 21:28	1
4-Bromofluorobenzene (Surr)	105		72 - 126				05/29/25 18:02	05/29/25 21:28	1
Toluene-d8 (Surr)	89		71 - 125				05/29/25 18:02	05/29/25 21:28	1
Dibromofluoromethane (Surr)	109		60 - 140				05/29/25 18:02	05/29/25 21:28	1

Lab Sample ID: LCS 480-747439/1-A

Matrix: Solid

Analysis Batch: 747444

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747439

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	56.8		ug/Kg		114	77 - 121
1,1,2,2-Tetrachloroethane	50.0	44.6		ug/Kg		89	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	57.9		ug/Kg		116	60 - 140
1,1,2-Trichloroethane	50.0	46.5		ug/Kg		93	78 - 122
1,1-Dichloroethane	50.0	57.6		ug/Kg		115	73 - 126
1,1-Dichloroethene	50.0	57.2		ug/Kg		114	59 - 125
1,2,4-Trichlorobenzene	50.0	43.9		ug/Kg		88	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	43.6		ug/Kg		87	63 - 124
1,2-Dichlorobenzene	50.0	43.8		ug/Kg		88	75 - 120
1,2-Dichloroethane	50.0	56.0		ug/Kg		112	77 - 122
1,2-Dichloropropane	50.0	58.7		ug/Kg		117	75 - 124
1,3-Dichlorobenzene	50.0	43.4		ug/Kg		87	74 - 120
1,4-Dichlorobenzene	50.0	42.4		ug/Kg		85	73 - 120
2-Butanone (MEK)	250	320		ug/Kg		128	70 - 134
2-Hexanone	250	270		ug/Kg		108	59 - 130
4-Methyl-2-pentanone (MIBK)	250	261		ug/Kg		104	65 - 133
Acetone	250	319		ug/Kg		128	61 - 137
Benzene	50.0	57.3		ug/Kg		115	79 - 127
Bromoform	50.0	49.9		ug/Kg		100	68 - 126
Bromomethane	50.0	51.7		ug/Kg		103	37 - 149
Carbon disulfide	50.0	56.3		ug/Kg		113	64 - 131
Carbon tetrachloride	50.0	57.7		ug/Kg		115	75 - 135
Chlorobenzene	50.0	46.9		ug/Kg		94	76 - 124
Dibromochloromethane	50.0	48.2		ug/Kg		96	76 - 125
Chloroethane	50.0	51.6		ug/Kg		103	69 - 135
Chloroform	50.0	55.0		ug/Kg		110	80 - 120
Chloromethane	50.0	51.0		ug/Kg		102	63 - 127
cis-1,2-Dichloroethene	50.0	57.3		ug/Kg		115	81 - 120
Cyclohexane	50.0	58.0		ug/Kg		116	65 - 120
Bromodichloromethane	50.0	56.4		ug/Kg		113	80 - 122
Dichlorodifluoromethane	50.0	44.7		ug/Kg		89	57 - 142
Ethylbenzene	50.0	46.7		ug/Kg		93	80 - 120
1,2-Dibromoethane	50.0	48.0		ug/Kg		96	78 - 120
Isopropylbenzene	50.0	44.6		ug/Kg		89	72 - 120

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-747439/1-A

Matrix: Solid

Analysis Batch: 747444

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747439

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl acetate	100	119		ug/Kg		119	55 - 136
Methyl tert-butyl ether	50.0	57.2		ug/Kg		114	63 - 125
Methylcyclohexane	50.0	59.1		ug/Kg		118	60 - 140
Methylene Chloride	50.0	62.2		ug/Kg		124	61 - 127
Tetrachloroethene	50.0	47.5		ug/Kg		95	74 - 122
Toluene	50.0	46.4		ug/Kg		93	74 - 128
trans-1,2-Dichloroethene	50.0	57.1		ug/Kg		114	78 - 126
trans-1,3-Dichloropropene	50.0	46.6		ug/Kg		93	73 - 123
Trichloroethene	50.0	57.3		ug/Kg		115	77 - 129
Trichlorofluoromethane	50.0	58.0		ug/Kg		116	65 - 146
Vinyl chloride	50.0	51.7		ug/Kg		103	61 - 133
cis-1,3-Dichloropropene	50.0	57.3		ug/Kg		115	80 - 120
Styrene	50.0	47.7		ug/Kg		95	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		64 - 126
4-Bromofluorobenzene (Surr)	106		72 - 126
Toluene-d8 (Surr)	92		71 - 125
Dibromofluoromethane (Surr)	106		60 - 140

Lab Sample ID: 480-229745-2 MS

Matrix: Solid

Analysis Batch: 747444

Client Sample ID: RI-BH-10

Prep Type: Total/NA

Prep Batch: 747439

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	ND	vs	70.0	64.5	vs	ug/Kg	✖	92	77 - 121
1,1,2,2-Tetrachloroethane	ND	F1 vs	70.0	38.2	F1 vs	ug/Kg	✖	55	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	70.0	64.0	vs	ug/Kg	✖	91	60 - 140
1,1,2-Trichloroethane	ND	F1 vs	70.0	46.4	F1 vs	ug/Kg	✖	66	78 - 122
1,1-Dichloroethane	ND	vs	70.0	67.9	vs	ug/Kg	✖	97	73 - 126
1,1-Dichloroethene	ND	vs	70.0	61.4	vs	ug/Kg	✖	88	59 - 125
1,2,4-Trichlorobenzene	ND	F1 vs	70.0	25.3	F1 vs	ug/Kg	✖	36	64 - 120
1,2-Dibromo-3-Chloropropane	ND	F1 vs	70.0	30.8	F1 vs	ug/Kg	✖	44	63 - 124
1,2-Dichlorobenzene	ND	F1 vs	70.0	35.9	F1 vs	ug/Kg	✖	51	75 - 120
1,2-Dichloroethane	ND	vs	70.0	58.7	vs	ug/Kg	✖	84	77 - 122
1,2-Dichloropropane	ND	vs	70.0	67.0	vs	ug/Kg	✖	96	75 - 124
1,3-Dichlorobenzene	ND	F1 vs	70.0	34.5	F1 vs	ug/Kg	✖	49	74 - 120
1,4-Dichlorobenzene	ND	F1 vs	70.0	32.5	F1 vs	ug/Kg	✖	46	73 - 120
2-Butanone (MEK)	7.2	J F1 vs	350	264	vs	ug/Kg	✖	73	70 - 134
2-Hexanone	ND	F1 vs	350	201	F1 vs	ug/Kg	✖	57	59 - 130
4-Methyl-2-pentanone (MIBK)	ND	F1 vs	350	209	F1 vs	ug/Kg	✖	60	65 - 133
Acetone	110	vs	350	395	vs	ug/Kg	✖	82	61 - 137
Benzene	ND	vs	70.0	62.2	vs	ug/Kg	✖	89	79 - 127
Bromoform	ND	F1 vs	70.0	41.0	F1 vs	ug/Kg	✖	59	68 - 126
Bromomethane	ND	vs	70.0	60.2	vs	ug/Kg	✖	86	37 - 149
Carbon disulfide	ND	vs	70.0	53.3	vs	ug/Kg	✖	76	64 - 131
Carbon tetrachloride	ND	vs	70.0	60.2	vs	ug/Kg	✖	86	75 - 135
Chlorobenzene	ND	F1 vs	70.0	42.4	F1 vs	ug/Kg	✖	61	76 - 124

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-229745-2 MS

Matrix: Solid

Analysis Batch: 747444

Client Sample ID: RI-BH-10

Prep Type: Total/NA

Prep Batch: 747439

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Dibromochloromethane	ND	F1 vs	70.0	44.5	F1 vs	ug/Kg	✖	64	76 - 125
Chloroethane	ND	vs	70.0	60.2	vs	ug/Kg	✖	86	69 - 135
Chloroform	ND	vs	70.0	64.0	vs	ug/Kg	✖	91	80 - 120
Chloromethane	ND	vs	70.0	62.3	vs	ug/Kg	✖	89	63 - 127
cis-1,2-Dichloroethene	ND	vs	70.0	63.1	vs	ug/Kg	✖	90	80 - 120
Cyclohexane	1.2	J vs	70.0	61.0	vs	ug/Kg	✖	85	65 - 120
Bromodichloromethane	ND	vs	70.0	61.9	vs	ug/Kg	✖	88	80 - 122
Dichlorodifluoromethane	ND	vs	70.0	53.9	vs	ug/Kg	✖	77	57 - 142
Ethylbenzene	ND	F1 vs	70.0	46.5	F1 vs	ug/Kg	✖	66	80 - 120
1,2-Dibromoethane	ND	F1 vs	70.0	41.1	F1 vs	ug/Kg	✖	59	78 - 120
Isopropylbenzene	ND	F1 vs	70.0	44.2	F1 vs	ug/Kg	✖	63	72 - 120
Methyl acetate	ND	vs	140	102	vs	ug/Kg	✖	73	55 - 136
Methyl tert-butyl ether	ND	vs	70.0	61.2	vs	ug/Kg	✖	88	63 - 125
Methylcyclohexane	4.9	J vs	70.0	56.5	vs	ug/Kg	✖	74	60 - 140
Methylene Chloride	ND	vs	70.0	75.1	vs	ug/Kg	✖	107	61 - 127
Tetrachloroethene	ND	F1 vs	70.0	45.5	F1 vs	ug/Kg	✖	65	74 - 122
Toluene	ND	F1 vs	70.0	48.1	F1 vs	ug/Kg	✖	69	74 - 128
trans-1,2-Dichloroethene	ND	vs	70.0	58.1	vs	ug/Kg	✖	83	78 - 126
trans-1,3-Dichloropropene	ND	F1 vs	70.0	40.1	F1 vs	ug/Kg	✖	57	73 - 123
Trichloroethene	ND	vs	70.0	58.3	vs	ug/Kg	✖	83	77 - 129
Trichlorofluoromethane	ND	vs	70.0	66.4	vs	ug/Kg	✖	95	65 - 146
Vinyl chloride	ND	vs	70.0	56.7	vs	ug/Kg	✖	81	61 - 133
cis-1,3-Dichloropropene	ND	vs	70.0	56.2	vs	ug/Kg	✖	80	80 - 120
Styrene	ND	F1 vs	70.0	41.3	F1 vs	ug/Kg	✖	59	80 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		64 - 126
4-Bromofluorobenzene (Surr)	103		72 - 126
Toluene-d8 (Surr)	91		71 - 125
Dibromofluoromethane (Surr)	107		60 - 140

Lab Sample ID: 480-229745-2 MSD

Matrix: Solid

Analysis Batch: 747444

Client Sample ID: RI-BH-10

Prep Type: Total/NA

Prep Batch: 747439

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND	vs	70.4	66.9	vs	ug/Kg	✖	95	77 - 121	4	30
1,1,2,2-Tetrachloroethane	ND	F1 vs	70.4	34.8	F1 vs	ug/Kg	✖	49	80 - 120	9	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	70.4	66.7	vs	ug/Kg	✖	95	60 - 140	4	30
1,1,2-Trichloroethane	ND	F1 vs	70.4	46.8	F1 vs	ug/Kg	✖	66	78 - 122	1	30
1,1-Dichloroethane	ND	vs	70.4	70.3	vs	ug/Kg	✖	100	73 - 126	4	30
1,1-Dichloroethene	ND	vs	70.4	64.4	vs	ug/Kg	✖	92	59 - 125	5	30
1,2,4-Trichlorobenzene	ND	F1 vs	70.4	25.3	F1 vs	ug/Kg	✖	36	64 - 120	0	30
1,2-Dibromo-3-Chloropropane	ND	F1 vs	70.4	28.2	F1 vs	ug/Kg	✖	40	63 - 124	9	30
1,2-Dichlorobenzene	ND	F1 vs	70.4	37.5	F1 vs	ug/Kg	✖	53	75 - 120	4	30
1,2-Dichloroethane	ND	vs	70.4	59.0	vs	ug/Kg	✖	84	77 - 122	0	30
1,2-Dichloropropane	ND	vs	70.4	67.6	vs	ug/Kg	✖	96	75 - 124	1	30
1,3-Dichlorobenzene	ND	F1 vs	70.4	35.3	F1 vs	ug/Kg	✖	50	74 - 120	2	30

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-229745-2 MSD

Matrix: Solid

Analysis Batch: 747444

Client Sample ID: RI-BH-10

Prep Type: Total/NA

Prep Batch: 747439

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene	ND	F1 vs	70.4	34.0	F1 vs	ug/Kg	✱	48	73 - 120	4	30
2-Butanone (MEK)	7.2	J F1 vs	352	244	F1 vs	ug/Kg	✱	67	70 - 134	8	30
2-Hexanone	ND	F1 vs	352	190	F1 vs	ug/Kg	✱	54	59 - 130	5	30
4-Methyl-2-pentanone (MIBK)	ND	F1 vs	352	198	F1 vs	ug/Kg	✱	56	65 - 133	5	30
Acetone	110	vs	352	342	vs	ug/Kg	✱	66	61 - 137	15	30
Benzene	ND	vs	70.4	64.9	vs	ug/Kg	✱	92	79 - 127	4	30
Bromoform	ND	F1 vs	70.4	42.1	F1 vs	ug/Kg	✱	60	68 - 126	2	30
Bromomethane	ND	vs	70.4	63.1	vs	ug/Kg	✱	90	37 - 149	5	30
Carbon disulfide	ND	vs	70.4	56.2	vs	ug/Kg	✱	80	64 - 131	5	30
Carbon tetrachloride	ND	vs	70.4	64.3	vs	ug/Kg	✱	91	75 - 135	7	30
Chlorobenzene	ND	F1 vs	70.4	46.1	F1 vs	ug/Kg	✱	66	76 - 124	8	30
Dibromochloromethane	ND	F1 vs	70.4	47.9	F1 vs	ug/Kg	✱	68	76 - 125	7	30
Chloroethane	ND	vs	70.4	62.0	vs	ug/Kg	✱	88	69 - 135	3	30
Chloroform	ND	vs	70.4	65.3	vs	ug/Kg	✱	93	80 - 120	2	30
Chloromethane	ND	vs	70.4	63.8	vs	ug/Kg	✱	91	63 - 127	2	30
cis-1,2-Dichloroethene	ND	vs	70.4	63.5	vs	ug/Kg	✱	90	80 - 120	1	30
Cyclohexane	1.2	J vs	70.4	61.1	vs	ug/Kg	✱	85	65 - 120	0	30
Bromodichloromethane	ND	vs	70.4	63.2	vs	ug/Kg	✱	90	80 - 122	2	30
Dichlorodifluoromethane	ND	vs	70.4	55.7	vs	ug/Kg	✱	79	57 - 142	3	30
Ethylbenzene	ND	F1 vs	70.4	48.2	F1 vs	ug/Kg	✱	68	80 - 120	4	30
1,2-Dibromoethane	ND	F1 vs	70.4	43.2	F1 vs	ug/Kg	✱	61	78 - 120	5	30
Isopropylbenzene	ND	F1 vs	70.4	45.6	F1 vs	ug/Kg	✱	65	72 - 120	3	30
Methyl acetate	ND	vs	141	94.7	vs	ug/Kg	✱	67	55 - 136	8	30
Methyl tert-butyl ether	ND	vs	70.4	60.8	vs	ug/Kg	✱	86	63 - 125	1	30
Methylcyclohexane	4.9	J vs	70.4	55.8	vs	ug/Kg	✱	72	60 - 140	1	30
Methylene Chloride	ND	vs	70.4	75.8	vs	ug/Kg	✱	108	61 - 127	1	30
Tetrachloroethene	ND	F1 vs	70.4	47.8	F1 vs	ug/Kg	✱	68	74 - 122	5	30
Toluene	ND	F1 vs	70.4	50.3	F1 vs	ug/Kg	✱	71	74 - 128	5	30
trans-1,2-Dichloroethene	ND	vs	70.4	60.6	vs	ug/Kg	✱	86	78 - 126	4	30
trans-1,3-Dichloropropene	ND	F1 vs	70.4	41.8	F1 vs	ug/Kg	✱	59	73 - 123	4	30
Trichloroethene	ND	vs	70.4	66.0	vs	ug/Kg	✱	94	77 - 129	12	30
Trichlorofluoromethane	ND	vs	70.4	68.3	vs	ug/Kg	✱	97	65 - 146	3	30
Vinyl chloride	ND	vs	70.4	59.4	vs	ug/Kg	✱	84	61 - 133	5	30
cis-1,3-Dichloropropene	ND	vs	70.4	57.5	vs	ug/Kg	✱	82	80 - 120	2	30
Styrene	ND	F1 vs	70.4	43.4	F1 vs	ug/Kg	✱	62	80 - 120	5	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	86		64 - 126
4-Bromofluorobenzene (Surr)	104		72 - 126
Toluene-d8 (Surr)	91		71 - 125
Dibromofluoromethane (Surr)	105		60 - 140

Lab Sample ID: 480-229745-9 MS

Matrix: Solid

Analysis Batch: 747444

Client Sample ID: RI-MW-5-MS

Prep Type: Total/NA

Prep Batch: 747439

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	ND	vs	54.4	43.9	vs	ug/Kg	✱	81	77 - 121

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-229745-9 MS

Matrix: Solid

Analysis Batch: 747444

Client Sample ID: RI-MW-5-MS

Prep Type: Total/NA

Prep Batch: 747439

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2,2-Tetrachloroethane	ND	F1 vs	54.4	23.6	F1 vs	ug/Kg	✖	43	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	54.4	41.8	vs	ug/Kg	✖	77	60 - 140
1,1,2-Trichloroethane	ND	F1 vs	54.4	32.8	F1 vs	ug/Kg	✖	60	78 - 122
1,1-Dichloroethane	ND	vs	54.4	50.2	vs	ug/Kg	✖	92	73 - 126
1,1-Dichloroethene	ND	vs	54.4	47.0	vs	ug/Kg	✖	86	59 - 125
1,2,4-Trichlorobenzene	ND	F1 vs	54.4	9.45	F1 vs	ug/Kg	✖	17	64 - 120
1,2-Dibromo-3-Chloropropane	ND	F1 vs	54.4	17.6	F1 vs	ug/Kg	✖	32	63 - 124
1,2-Dichlorobenzene	ND	F1 vs	54.4	18.8	F1 vs	ug/Kg	✖	35	75 - 120
1,2-Dichloroethane	ND	vs	54.4	43.4	vs	ug/Kg	✖	80	77 - 122
1,2-Dichloropropane	ND	vs	54.4	46.6	vs	ug/Kg	✖	86	75 - 124
1,3-Dichlorobenzene	ND	F1 vs	54.4	18.4	F1 vs	ug/Kg	✖	34	74 - 120
1,4-Dichlorobenzene	ND	F1 vs	54.4	18.6	F1 vs	ug/Kg	✖	34	73 - 120
2-Butanone (MEK)	ND	vs	272	204	vs	ug/Kg	✖	75	70 - 134
2-Hexanone	ND	F1 vs	272	149	F1 vs	ug/Kg	✖	55	59 - 130
4-Methyl-2-pentanone (MIBK)	ND	F1 vs	272	156	F1 vs	ug/Kg	✖	57	65 - 133
Acetone	11	J vs	272	232	vs	ug/Kg	✖	81	61 - 137
Benzene	ND	vs	54.4	46.1	vs	ug/Kg	✖	85	79 - 127
Bromoform	ND	F1 vs	54.4	27.6	F1 vs	ug/Kg	✖	51	68 - 126
Bromomethane	ND	vs	54.4	49.1	vs	ug/Kg	✖	90	37 - 149
Carbon disulfide	ND	vs	54.4	43.4	vs	ug/Kg	✖	80	64 - 131
Carbon tetrachloride	ND	F1 vs	54.4	39.6	F1 vs	ug/Kg	✖	73	75 - 135
Chlorobenzene	ND	F1 vs	54.4	28.8	F1 vs	ug/Kg	✖	53	76 - 124
Dibromochloromethane	ND	F1 vs	54.4	32.3	F1 vs	ug/Kg	✖	59	76 - 125
Chloroethane	ND	vs	54.4	48.4	vs	ug/Kg	✖	89	69 - 135
Chloroform	0.47	J B vs	54.4	46.9	vs	ug/Kg	✖	85	80 - 120
Chloromethane	ND	vs	54.4	51.7	vs	ug/Kg	✖	95	63 - 127
cis-1,2-Dichloroethene	ND	vs	54.4	47.4	vs	ug/Kg	✖	87	80 - 120
Cyclohexane	0.79	J F1 vs	54.4	34.3	F1 vs	ug/Kg	✖	62	65 - 120
Bromodichloromethane	ND	vs	54.4	43.6	vs	ug/Kg	✖	80	80 - 122
Dichlorodifluoromethane	ND	vs	54.4	40.0	vs	ug/Kg	✖	73	57 - 142
Ethylbenzene	ND	F1 vs	54.4	27.1	F1 vs	ug/Kg	✖	50	80 - 120
1,2-Dibromoethane	ND	F1 vs	54.4	29.3	F1 vs	ug/Kg	✖	54	78 - 120
Isopropylbenzene	ND	F1 vs	54.4	22.1	F1 vs	ug/Kg	✖	41	72 - 120
Methyl acetate	ND	vs	109	82.4	vs	ug/Kg	✖	76	55 - 136
Methyl tert-butyl ether	ND	vs	54.4	48.5	vs	ug/Kg	✖	89	63 - 125
Methylcyclohexane	1.3	J F1 vs	54.4	25.2	F1 vs	ug/Kg	✖	44	60 - 140
Methylene Chloride	3.4	J vs	54.4	59.9	vs	ug/Kg	✖	104	61 - 127
Tetrachloroethene	ND	F1 vs	54.4	25.8	F1 vs	ug/Kg	✖	47	74 - 122
Toluene	0.54	J F1 vs	54.4	33.6	F1 vs	ug/Kg	✖	61	74 - 128
trans-1,2-Dichloroethene	ND	vs	54.4	46.5	vs	ug/Kg	✖	85	78 - 126
trans-1,3-Dichloropropene	ND	F1 vs	54.4	30.6	F1 vs	ug/Kg	✖	56	73 - 123
Trichloroethene	ND	vs	54.4	42.9	vs	ug/Kg	✖	79	77 - 129
Trichlorofluoromethane	ND	vs	54.4	46.0	vs	ug/Kg	✖	85	65 - 146
Vinyl chloride	ND	vs	54.4	47.7	vs	ug/Kg	✖	88	61 - 133
cis-1,3-Dichloropropene	ND	F1 vs	54.4	42.0	F1 vs	ug/Kg	✖	77	80 - 120
Styrene	ND	F1 vs	54.4	26.9	F1 vs	ug/Kg	✖	50	80 - 120

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-229745-9 MS

Matrix: Solid

Analysis Batch: 747444

Client Sample ID: RI-MW-5-MS

Prep Type: Total/NA

Prep Batch: 747439

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		64 - 126
4-Bromofluorobenzene (Surr)	103		72 - 126
Toluene-d8 (Surr)	92		71 - 125
Dibromofluoromethane (Surr)	103		60 - 140

Lab Sample ID: 480-229745-9 MSD

Matrix: Solid

Analysis Batch: 747444

Client Sample ID: RI-MW-5-MSD

Prep Type: Total/NA

Prep Batch: 747439

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND	vs	54.9	48.9	vs	ug/Kg	✱	89	77 - 121	11	30
1,1,1,2,2-Tetrachloroethane	ND	F1 vs	54.9	25.2	F1 vs	ug/Kg	✱	46	80 - 120	7	30
1,1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	54.9	48.6	vs	ug/Kg	✱	88	60 - 140	15	30
1,1,1,2-Trichloroethane	ND	F1 vs	54.9	34.4	F1 vs	ug/Kg	✱	63	78 - 122	5	30
1,1-Dichloroethane	ND	vs	54.9	53.8	vs	ug/Kg	✱	98	73 - 126	7	30
1,1-Dichloroethene	ND	vs	54.9	52.2	vs	ug/Kg	✱	95	59 - 125	10	30
1,2,4-Trichlorobenzene	ND	F1 vs	54.9	9.70	F1 vs	ug/Kg	✱	18	64 - 120	3	30
1,2-Dibromo-3-Chloropropane	ND	F1 vs	54.9	17.8	F1 vs	ug/Kg	✱	32	63 - 124	1	30
1,2-Dichlorobenzene	ND	F1 vs	54.9	19.6	F1 vs	ug/Kg	✱	36	75 - 120	4	30
1,2-Dichloroethane	ND	vs	54.9	44.0	vs	ug/Kg	✱	80	77 - 122	1	30
1,2-Dichloropropane	ND	vs	54.9	49.1	vs	ug/Kg	✱	89	75 - 124	5	30
1,3-Dichlorobenzene	ND	F1 vs	54.9	19.6	F1 vs	ug/Kg	✱	36	74 - 120	6	30
1,4-Dichlorobenzene	ND	F1 vs	54.9	19.8	F1 vs	ug/Kg	✱	36	73 - 120	6	30
2-Butanone (MEK)	ND	vs	275	199	vs	ug/Kg	✱	72	70 - 134	3	30
2-Hexanone	ND	F1 vs	275	147	F1 vs	ug/Kg	✱	53	59 - 130	2	30
4-Methyl-2-pentanone (MIBK)	ND	F1 vs	275	156	F1 vs	ug/Kg	✱	57	65 - 133	0	30
Acetone	11	J vs	275	229	vs	ug/Kg	✱	79	61 - 137	2	30
Benzene	ND	vs	54.9	49.4	vs	ug/Kg	✱	90	79 - 127	7	30
Bromoform	ND	F1 vs	54.9	27.9	F1 vs	ug/Kg	✱	51	68 - 126	1	30
Bromomethane	ND	vs	54.9	52.6	vs	ug/Kg	✱	96	37 - 149	7	30
Carbon disulfide	ND	vs	54.9	49.3	vs	ug/Kg	✱	90	64 - 131	13	30
Carbon tetrachloride	ND	F1 vs	54.9	46.8	vs	ug/Kg	✱	85	75 - 135	17	30
Chlorobenzene	ND	F1 vs	54.9	31.7	F1 vs	ug/Kg	✱	58	76 - 124	10	30
Dibromochloromethane	ND	F1 vs	54.9	34.0	F1 vs	ug/Kg	✱	62	76 - 125	5	30
Chloroethane	ND	vs	54.9	51.3	vs	ug/Kg	✱	93	69 - 135	6	30
Chloroform	0.47	J B vs	54.9	49.9	vs	ug/Kg	✱	90	80 - 120	6	30
Chloromethane	ND	vs	54.9	54.8	vs	ug/Kg	✱	100	63 - 127	6	30
cis-1,2-Dichloroethene	ND	vs	54.9	51.1	vs	ug/Kg	✱	93	80 - 120	8	30
Cyclohexane	0.79	J F1 vs	54.9	41.5	vs	ug/Kg	✱	74	65 - 120	19	30
Bromodichloromethane	ND	vs	54.9	46.7	vs	ug/Kg	✱	85	80 - 122	7	30
Dichlorodifluoromethane	ND	vs	54.9	44.0	vs	ug/Kg	✱	80	57 - 142	10	30
Ethylbenzene	ND	F1 vs	54.9	30.5	F1 vs	ug/Kg	✱	55	80 - 120	12	30
1,2-Dibromoethane	ND	F1 vs	54.9	30.1	F1 vs	ug/Kg	✱	55	78 - 120	3	30
Isopropylbenzene	ND	F1 vs	54.9	26.2	F1 vs	ug/Kg	✱	48	72 - 120	17	30
Methyl acetate	ND	vs	110	85.2	vs	ug/Kg	✱	78	55 - 136	3	30
Methyl tert-butyl ether	ND	vs	54.9	49.9	vs	ug/Kg	✱	91	63 - 125	3	30
Methylcyclohexane	1.3	J F1 vs	54.9	31.6	F1 vs	ug/Kg	✱	55	60 - 140	23	30
Methylene Chloride	3.4	J vs	54.9	63.3	vs	ug/Kg	✱	109	61 - 127	6	30

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-229745-9 MSD

Matrix: Solid

Analysis Batch: 747444

Client Sample ID: RI-MW-5-MSD

Prep Type: Total/NA

Prep Batch: 747439

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Tetrachloroethene	ND	F1 vs	54.9	31.1	F1 vs	ug/Kg	✖	57	74 - 122	19	30
Toluene	0.54	J F1 vs	54.9	37.0	F1 vs	ug/Kg	✖	66	74 - 128	10	30
trans-1,2-Dichloroethene	ND	vs	54.9	51.3	vs	ug/Kg	✖	93	78 - 126	10	30
trans-1,3-Dichloropropene	ND	F1 vs	54.9	31.2	F1 vs	ug/Kg	✖	57	73 - 123	2	30
Trichloroethene	ND	vs	54.9	46.0	vs	ug/Kg	✖	84	77 - 129	7	30
Trichlorofluoromethane	ND	vs	54.9	51.1	vs	ug/Kg	✖	93	65 - 146	10	30
Vinyl chloride	ND	vs	54.9	51.1	vs	ug/Kg	✖	93	61 - 133	7	30
cis-1,3-Dichloropropene	ND	F1 vs	54.9	42.4	F1 vs	ug/Kg	✖	77	80 - 120	1	30
Styrene	ND	F1 vs	54.9	29.3	F1 vs	ug/Kg	✖	53	80 - 120	8	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		64 - 126
4-Bromofluorobenzene (Surr)	105		72 - 126
Toluene-d8 (Surr)	93		71 - 125
Dibromofluoromethane (Surr)	106		60 - 140

Lab Sample ID: MB 480-747608/2-A

Matrix: Solid

Analysis Batch: 747613

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747608

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
2-Hexanone	ND		25	2.5	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
Acetone	ND		25	4.2	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
Benzene	ND		5.0	0.25	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
Bromoform	ND		5.0	2.5	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
Bromomethane	ND		5.0	0.45	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
Chloroethane	ND		5.0	1.1	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
Chloroform	ND		5.0	0.31	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
Chloromethane	ND		5.0	0.30	ug/Kg		06/01/25 18:04	06/01/25 23:21	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-747608/2-A

Matrix: Solid

Analysis Batch: 747613

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747608

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
Cyclohexane	ND		5.0	0.70	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
Methyl acetate	ND		25	3.0	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
Toluene	ND		5.0	0.38	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
Trichloroethene	ND		5.0	1.1	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
Xylenes, Total	ND		10	0.84	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		06/01/25 18:04	06/01/25 23:21	1
Styrene	ND		5.0	0.25	ug/Kg		06/01/25 18:04	06/01/25 23:21	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg			N/A	06/01/25 18:04	06/01/25 23:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		64 - 126	06/01/25 18:04	06/01/25 23:21	1
4-Bromofluorobenzene (Surr)	103		72 - 126	06/01/25 18:04	06/01/25 23:21	1
Toluene-d8 (Surr)	100		71 - 125	06/01/25 18:04	06/01/25 23:21	1
Dibromofluoromethane (Surr)	97		60 - 140	06/01/25 18:04	06/01/25 23:21	1

Lab Sample ID: LCS 480-747608/1-A

Matrix: Solid

Analysis Batch: 747613

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747608

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,1,1-Trichloroethane	50.0	54.6		ug/Kg		109	77 - 121
1,1,1,2,2-Tetrachloroethane	50.0	50.6		ug/Kg		101	80 - 120
1,1,1,2-Trichloro-1,1,2,2-trifluoroethane	50.0	52.4		ug/Kg		105	60 - 140
1,1,2-Trichloroethane	50.0	49.9		ug/Kg		100	78 - 122
1,1-Dichloroethane	50.0	53.7		ug/Kg		107	73 - 126
1,1-Dichloroethene	50.0	53.2		ug/Kg		106	59 - 125
1,2,4-Trichlorobenzene	50.0	51.9		ug/Kg		104	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	54.5		ug/Kg		109	63 - 124
1,2-Dichlorobenzene	50.0	49.0		ug/Kg		98	75 - 120
1,2-Dichloroethane	50.0	48.5		ug/Kg		97	77 - 122
1,2-Dichloropropane	50.0	54.1		ug/Kg		108	75 - 124

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-747608/1-A

Matrix: Solid

Analysis Batch: 747613

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747608

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3-Dichlorobenzene	50.0	49.1		ug/Kg		98	74 - 120
1,4-Dichlorobenzene	50.0	48.6		ug/Kg		97	73 - 120
2-Butanone (MEK)	250	289		ug/Kg		116	70 - 134
2-Hexanone	250	260		ug/Kg		104	59 - 130
4-Methyl-2-pentanone (MIBK)	250	262		ug/Kg		105	65 - 133
Acetone	250	278		ug/Kg		111	61 - 137
Benzene	50.0	52.5		ug/Kg		105	79 - 127
Bromoform	50.0	59.1		ug/Kg		118	68 - 126
Bromomethane	50.0	54.2		ug/Kg		108	37 - 149
Carbon disulfide	50.0	52.2		ug/Kg		104	64 - 131
Carbon tetrachloride	50.0	57.4		ug/Kg		115	75 - 135
Chlorobenzene	50.0	49.2		ug/Kg		98	76 - 124
Dibromochloromethane	50.0	56.3		ug/Kg		113	76 - 125
Chloroethane	50.0	54.7		ug/Kg		109	69 - 135
Chloroform	50.0	50.3		ug/Kg		101	80 - 120
Chloromethane	50.0	56.1		ug/Kg		112	63 - 127
cis-1,2-Dichloroethene	50.0	52.9		ug/Kg		106	81 - 120
Cyclohexane	50.0	56.1		ug/Kg		112	65 - 120
Bromodichloromethane	50.0	53.4		ug/Kg		107	80 - 122
Dichlorodifluoromethane	50.0	54.1		ug/Kg		108	57 - 142
Ethylbenzene	50.0	50.5		ug/Kg		101	80 - 120
1,2-Dibromoethane	50.0	52.3		ug/Kg		105	78 - 120
Isopropylbenzene	50.0	51.1		ug/Kg		102	72 - 120
Methyl acetate	100	108		ug/Kg		108	55 - 136
Methyl tert-butyl ether	50.0	52.0		ug/Kg		104	63 - 125
Methylcyclohexane	50.0	54.6		ug/Kg		109	60 - 140
Methylene Chloride	50.0	56.8		ug/Kg		114	61 - 127
Tetrachloroethene	50.0	51.5		ug/Kg		103	74 - 122
Toluene	50.0	51.2		ug/Kg		102	74 - 128
trans-1,2-Dichloroethene	50.0	52.4		ug/Kg		105	78 - 126
trans-1,3-Dichloropropene	50.0	52.4		ug/Kg		105	73 - 123
Trichloroethene	50.0	51.3		ug/Kg		103	77 - 129
Trichlorofluoromethane	50.0	51.9		ug/Kg		104	65 - 146
Vinyl chloride	50.0	55.8		ug/Kg		112	61 - 133
cis-1,3-Dichloropropene	50.0	51.5		ug/Kg		103	80 - 120
Styrene	50.0	50.6		ug/Kg		101	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		64 - 126
4-Bromofluorobenzene (Surr)	101		72 - 126
Toluene-d8 (Surr)	102		71 - 125
Dibromofluoromethane (Surr)	104		60 - 140

QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-229745-3 MS

Matrix: Solid

Analysis Batch: 747613

Client Sample ID: RI-MW-1-MS

Prep Type: Total/NA

Prep Batch: 747608

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	ND	vs	55.5	46.7	vs	ug/Kg	✱	84	77 - 121
1,1,1,2,2-Tetrachloroethane	ND	*3 F1 vs	55.5	58.7	*3 vs	ug/Kg	✱	106	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	F2 vs	55.5	35.5	vs	ug/Kg	✱	64	60 - 140
1,1,2-Trichloroethane	ND	vs	55.5	49.1	vs	ug/Kg	✱	88	78 - 122
1,1-Dichloroethane	ND	vs	55.5	51.1	vs	ug/Kg	✱	92	73 - 126
1,1-Dichloroethene	ND	vs	55.5	47.8	vs	ug/Kg	✱	86	59 - 125
1,2,4-Trichlorobenzene	ND	*3 F1 vs	55.5	12.1	F1 *3 vs	ug/Kg	✱	22	64 - 120
1,2-Dibromo-3-Chloropropane	ND	*3 vs	55.5	43.5	*3 vs	ug/Kg	✱	78	63 - 124
1,2-Dichlorobenzene	ND	*3 F1 vs	55.5	34.0	F1 *3 vs	ug/Kg	✱	61	75 - 120
1,2-Dichloroethane	ND	F1 vs	55.5	41.7	F1 vs	ug/Kg	✱	75	77 - 122
1,2-Dichloropropane	ND	vs	55.5	47.4	vs	ug/Kg	✱	85	75 - 124
1,3-Dichlorobenzene	ND	*3 F1 vs	55.5	37.2	F1 *3 vs	ug/Kg	✱	67	74 - 120
1,4-Dichlorobenzene	ND	*3 F1 vs	55.5	36.5	F1 *3 vs	ug/Kg	✱	66	73 - 120
2-Butanone (MEK)	ND	vs	278	204	vs	ug/Kg	✱	74	70 - 134
2-Hexanone	ND	vs	278	222	vs	ug/Kg	✱	80	59 - 130
4-Methyl-2-pentanone (MIBK)	ND	vs	278	238	vs	ug/Kg	✱	86	65 - 133
Acetone	8.0	J vs	278	222	vs	ug/Kg	✱	77	61 - 137
Benzene	ND	vs	55.5	48.2	vs	ug/Kg	✱	87	79 - 127
Bromoform	ND	vs	55.5	39.2	vs	ug/Kg	✱	71	68 - 126
Bromomethane	ND	vs	55.5	49.0	vs	ug/Kg	✱	88	37 - 149
Carbon disulfide	3.5	J vs	55.5	49.2	vs	ug/Kg	✱	82	64 - 131
Carbon tetrachloride	ND	F1 vs	55.5	40.8	F1 vs	ug/Kg	✱	73	75 - 135
Chlorobenzene	ND	F1 vs	55.5	42.2	vs	ug/Kg	✱	76	76 - 124
Dibromochloromethane	ND	vs	55.5	49.6	vs	ug/Kg	✱	89	76 - 125
Chloroethane	ND	vs	55.5	54.0	vs	ug/Kg	✱	97	69 - 135
Chloroform	ND	vs	55.5	48.3	vs	ug/Kg	✱	87	80 - 120
Chloromethane	ND	F1 vs	55.5	58.0	vs	ug/Kg	✱	104	63 - 127
cis-1,2-Dichloroethene	1.2	J vs	55.5	49.2	vs	ug/Kg	✱	86	80 - 120
Cyclohexane	ND	F1 vs	55.5	34.9	F1 vs	ug/Kg	✱	63	65 - 120
Bromodichloromethane	ND	vs	55.5	45.9	vs	ug/Kg	✱	83	80 - 122
Dichlorodifluoromethane	ND	vs	55.5	53.0	vs	ug/Kg	✱	95	57 - 142
Ethylbenzene	ND	F1 vs	55.5	41.7	F1 vs	ug/Kg	✱	75	80 - 120
1,2-Dibromoethane	ND	vs	55.5	43.7	vs	ug/Kg	✱	79	78 - 120
Isopropylbenzene	ND	*3 F1 vs	55.5	60.4	*3 vs	ug/Kg	✱	109	72 - 120
Methyl acetate	ND	vs	111	101	vs	ug/Kg	✱	91	55 - 136
Methyl tert-butyl ether	ND	vs	55.5	45.1	vs	ug/Kg	✱	81	63 - 125
Methylcyclohexane	12	vs	55.5	45.0	vs	ug/Kg	✱	60	60 - 140
Methylene Chloride	ND	F1 vs	55.5	55.5	vs	ug/Kg	✱	100	61 - 127
Tetrachloroethene	ND	vs	55.5	41.9	vs	ug/Kg	✱	76	74 - 122
Toluene	0.70	J vs	55.5	53.1	vs	ug/Kg	✱	94	74 - 128
trans-1,2-Dichloroethene	ND	vs	55.5	49.3	vs	ug/Kg	✱	89	78 - 126
trans-1,3-Dichloropropene	ND	vs	55.5	46.5	vs	ug/Kg	✱	84	73 - 123
Trichloroethene	ND	vs	55.5	49.1	vs	ug/Kg	✱	88	77 - 129
Trichlorofluoromethane	ND	vs	55.5	45.1	vs	ug/Kg	✱	81	65 - 146
Vinyl chloride	0.77	J vs	55.5	55.0	vs	ug/Kg	✱	98	61 - 133
cis-1,3-Dichloropropene	ND	F1 vs	55.5	40.0	F1 vs	ug/Kg	✱	72	80 - 120
Styrene	ND	F1 vs	55.5	36.8	F1 vs	ug/Kg	✱	66	80 - 120

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-229745-3 MS

Matrix: Solid

Analysis Batch: 747613

Client Sample ID: RI-MW-1-MS

Prep Type: Total/NA

Prep Batch: 747608

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	87		64 - 126
4-Bromofluorobenzene (Surr)	80		72 - 126
Toluene-d8 (Surr)	116		71 - 125
Dibromofluoromethane (Surr)	97		60 - 140

Lab Sample ID: 480-229745-3 MSD

Matrix: Solid

Analysis Batch: 747613

Client Sample ID: RI-MW-1-MSD

Prep Type: Total/NA

Prep Batch: 747608

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND	vs	54.6	55.4	vs	ug/Kg	✱	101	77 - 121	17	30
1,1,1,2,2-Tetrachloroethane	ND	*3 F1 vs	54.6	73.7	F1 *3 vs	ug/Kg	✱	135	80 - 120	23	30
1,1,1,2-Trichloro-1,2,2-trifluoroethane	ND	F2 vs	54.6	49.0	F2 vs	ug/Kg	✱	90	60 - 140	32	30
1,1,1,2-Trichloroethane	ND	vs	54.6	52.6	*3 vs	ug/Kg	✱	96	78 - 122	7	30
1,1-Dichloroethane	ND	vs	54.6	59.4	vs	ug/Kg	✱	109	73 - 126	15	30
1,1-Dichloroethene	ND	vs	54.6	57.7	vs	ug/Kg	✱	106	59 - 125	19	30
1,2,4-Trichlorobenzene	ND	*3 F1 vs	54.6	12.5	F1 *3 vs	ug/Kg	✱	23	64 - 120	3	30
1,2-Dibromo-3-Chloropropane	ND	*3 vs	54.6	51.0	*3 vs	ug/Kg	✱	93	63 - 124	16	30
1,2-Dichlorobenzene	ND	*3 F1 vs	54.6	35.7	F1 *3 vs	ug/Kg	✱	65	75 - 120	5	30
1,2-Dichloroethane	ND	F1 vs	54.6	44.2	vs	ug/Kg	✱	81	77 - 122	6	30
1,2-Dichloropropane	ND	vs	54.6	49.5	vs	ug/Kg	✱	91	75 - 124	4	30
1,3-Dichlorobenzene	ND	*3 F1 vs	54.6	38.4	F1 *3 vs	ug/Kg	✱	70	74 - 120	3	30
1,4-Dichlorobenzene	ND	*3 F1 vs	54.6	37.1	F1 *3 vs	ug/Kg	✱	68	73 - 120	1	30
2-Butanone (MEK)	ND	vs	273	202	vs	ug/Kg	✱	74	70 - 134	1	30
2-Hexanone	ND	vs	273	245	*3 vs	ug/Kg	✱	90	59 - 130	10	30
4-Methyl-2-pentanone (MIBK)	ND	vs	273	300	*3 vs	ug/Kg	✱	110	65 - 133	23	30
Acetone	8.0	J vs	273	233	vs	ug/Kg	✱	82	61 - 137	5	30
Benzene	ND	vs	54.6	51.8	vs	ug/Kg	✱	95	79 - 127	7	30
Bromoform	ND	vs	54.6	41.8	*3 vs	ug/Kg	✱	77	68 - 126	6	30
Bromomethane	ND	vs	54.6	62.0	vs	ug/Kg	✱	114	37 - 149	23	30
Carbon disulfide	3.5	J vs	54.6	57.3	vs	ug/Kg	✱	99	64 - 131	15	30
Carbon tetrachloride	ND	F1 vs	54.6	47.9	vs	ug/Kg	✱	88	75 - 135	16	30
Chlorobenzene	ND	F1 vs	54.6	40.8	F1 *3 vs	ug/Kg	✱	75	76 - 124	3	30
Dibromochloromethane	ND	vs	54.6	53.3	*3 vs	ug/Kg	✱	98	76 - 125	7	30
Chloroethane	ND	vs	54.6	65.4	vs	ug/Kg	✱	120	69 - 135	19	30
Chloroform	ND	vs	54.6	55.3	vs	ug/Kg	✱	101	80 - 120	14	30
Chloromethane	ND	F1 vs	54.6	71.3	F1 vs	ug/Kg	✱	131	63 - 127	21	30
cis-1,2-Dichloroethene	1.2	J vs	54.6	58.5	vs	ug/Kg	✱	105	80 - 120	17	30
Cyclohexane	ND	F1 vs	54.6	43.7	vs	ug/Kg	✱	80	65 - 120	22	30
Bromodichloromethane	ND	vs	54.6	47.0	vs	ug/Kg	✱	86	80 - 122	2	30
Dichlorodifluoromethane	ND	vs	54.6	63.1	vs	ug/Kg	✱	116	57 - 142	17	30
Ethylbenzene	ND	F1 vs	54.6	42.6	F1 *3 vs	ug/Kg	✱	78	80 - 120	2	30
1,2-Dibromoethane	ND	vs	54.6	44.1	*3 vs	ug/Kg	✱	81	78 - 120	1	30
Isopropylbenzene	ND	*3 F1 vs	54.6	68.1	F1 *3 vs	ug/Kg	✱	125	72 - 120	12	30
Methyl acetate	ND	vs	109	124	vs	ug/Kg	✱	113	55 - 136	20	30
Methyl tert-butyl ether	ND	vs	54.6	61.4	vs	ug/Kg	✱	112	63 - 125	30	30
Methylcyclohexane	12	vs	54.6	56.6	vs	ug/Kg	✱	82	60 - 140	23	30
Methylene Chloride	ND	F1 vs	54.6	72.8	F1 vs	ug/Kg	✱	133	61 - 127	27	30

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-229745-3 MSD

Matrix: Solid

Analysis Batch: 747613

Client Sample ID: RI-MW-1-MSD

Prep Type: Total/NA

Prep Batch: 747608

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Tetrachloroethene	ND	vs	54.6	40.3	*3 vs	ug/Kg	✖	74	74 - 122	4	30
Toluene	0.70	J vs	54.6	56.4	*3 vs	ug/Kg	✖	102	74 - 128	6	30
trans-1,2-Dichloroethene	ND	vs	54.6	57.1	vs	ug/Kg	✖	105	78 - 126	15	30
trans-1,3-Dichloropropene	ND	vs	54.6	45.5	*3 vs	ug/Kg	✖	83	73 - 123	2	30
Trichloroethene	ND	vs	54.6	45.6	vs	ug/Kg	✖	84	77 - 129	7	30
Trichlorofluoromethane	ND	vs	54.6	53.4	vs	ug/Kg	✖	98	65 - 146	17	30
Vinyl chloride	0.77	J vs	54.6	67.5	vs	ug/Kg	✖	122	61 - 133	20	30
cis-1,3-Dichloropropene	ND	F1 vs	54.6	36.8	F1 vs	ug/Kg	✖	67	80 - 120	8	30
Styrene	ND	F1 vs	54.6	35.5	F1 *3 vs	ug/Kg	✖	65	80 - 120	4	30
Surrogate	MSD	MSD	Limits								
	%Recovery	Qualifier									
1,2-Dichloroethane-d4 (Surr)	96		64 - 126								
4-Bromofluorobenzene (Surr)	73	*3	72 - 126								
Toluene-d8 (Surr)	125	*3	71 - 125								
Dibromofluoromethane (Surr)	112		60 - 140								

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-747407/1-A

Matrix: Solid

Analysis Batch: 747473

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747407

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dioxane	ND		100	37	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
2,4,5-Trichlorophenol	ND		170	34	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
2,4,6-Trichlorophenol	ND		170	26	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
2,4-Dichlorophenol	ND		170	33	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
2,4-Dimethylphenol	ND		170	36	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
2,4-Dinitrophenol	ND		1700	32	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
2,4-Dinitrotoluene	ND		170	23	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
2,6-Dinitrotoluene	ND		170	24	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
2-Chloronaphthalene	ND		170	32	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
2-Chlorophenol	ND		170	27	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
2-Methylnaphthalene	ND		170	27	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
2-Methylphenol	ND		170	27	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
2-Nitroaniline	ND		330	29	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
2-Nitrophenol	ND		170	19	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
3,3'-Dichlorobenzidine	ND		330	50	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
3-Nitroaniline	ND		330	24	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
4,6-Dinitro-2-methylphenol	ND		330	37	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
4-Bromophenyl phenyl ether	ND		170	29	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
4-Chloro-3-methylphenol	ND		170	35	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
4-Chloroaniline	ND		170	24	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
4-Chlorophenyl phenyl ether	ND		170	36	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
4-Methylphenol	ND		330	30	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
4-Nitroaniline	ND		330	25	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
4-Nitrophenol	ND		330	46	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Acenaphthene	ND		170	31	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Acenaphthylene	ND		170	33	ug/Kg		05/29/25 13:56	05/30/25 12:40	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-747407/1-A

Matrix: Solid

Analysis Batch: 747473

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747407

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	ND		170	30	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Anthracene	ND		170	31	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Atrazine	ND		170	57	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Benzaldehyde	ND		170	130	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Benzo[a]anthracene	ND		170	23	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Benzo[a]pyrene	ND		170	29	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Benzo[b]fluoranthene	ND		170	23	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Benzo[g,h,i]perylene	ND		170	30	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Benzo[k]fluoranthene	ND		170	38	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Biphenyl	ND		170	32	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
bis (2-chloroisopropyl) ether	ND		170	35	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Bis(2-chloroethoxy)methane	ND		170	32	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Bis(2-chloroethyl)ether	ND		170	32	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Bis(2-ethylhexyl) phthalate	ND		170	37	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Butyl benzyl phthalate	ND		170	31	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Caprolactam	ND		170	39	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Carbazole	ND		170	33	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Chrysene	ND		170	41	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Dibenz(a,h)anthracene	ND		170	34	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Dibenzofuran	ND		170	30	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Diethyl phthalate	ND		170	30	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Dimethyl phthalate	ND		170	33	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Di-n-butyl phthalate	ND		170	38	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Di-n-octyl phthalate	ND		170	32	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Fluoranthene	ND		170	31	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Fluorene	ND		170	31	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Hexachlorobenzene	ND		170	33	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Hexachlorobutadiene	ND		170	25	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Hexachlorocyclopentadiene	ND		330	74	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Hexachloroethane	ND		170	31	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Indeno[1,2,3-cd]pyrene	ND		170	25	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Isophorone	ND		170	35	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Naphthalene	ND		170	28	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Nitrobenzene	ND		170	28	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
N-Nitrosodi-n-propylamine	ND		170	38	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
N-Nitrosodiphenylamine	ND		170	28	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Pentachlorophenol	ND		330	54	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Phenanthrene	ND		170	32	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Phenol	ND		170	31	ug/Kg		05/29/25 13:56	05/30/25 12:40	1
Pyrene	ND		170	32	ug/Kg		05/29/25 13:56	05/30/25 12:40	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	4300	T J	ug/Kg		1.93	N/A	05/29/25 13:56	05/30/25 12:40	1
3-Penten-2-one, 4-methyl-	1500	T J N	ug/Kg		2.64	141-79-7	05/29/25 13:56	05/30/25 12:40	1
Unknown	27900	T J	ug/Kg		3.37	N/A	05/29/25 13:56	05/30/25 12:40	1
Unknown	280	T J	ug/Kg		6.78	N/A	05/29/25 13:56	05/30/25 12:40	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-747407/1-A

Matrix: Solid

Analysis Batch: 747473

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747407

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	70		10 - 140	05/29/25 13:56	05/30/25 12:40	1
2-Fluorobiphenyl (Surr)	76		29 - 120	05/29/25 13:56	05/30/25 12:40	1
2-Fluorophenol (Surr)	65		18 - 120	05/29/25 13:56	05/30/25 12:40	1
Nitrobenzene-d5 (Surr)	68		22 - 120	05/29/25 13:56	05/30/25 12:40	1
Phenol-d5 (Surr)	70		23 - 120	05/29/25 13:56	05/30/25 12:40	1
p-Terphenyl-d14 (Surr)	91		28 - 124	05/29/25 13:56	05/30/25 12:40	1

Lab Sample ID: LCS 480-747407/2-A

Matrix: Solid

Analysis Batch: 747473

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747407

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	2670	868		ug/Kg		33	13 - 120
2,4,5-Trichlorophenol	2670	2040		ug/Kg		77	58 - 120
2,4,6-Trichlorophenol	2670	2060		ug/Kg		77	60 - 120
2,4-Dichlorophenol	2670	1810		ug/Kg		68	53 - 120
2,4-Dimethylphenol	2670	1880		ug/Kg		71	55 - 120
2,4-Dinitrophenol	5330	4240		ug/Kg		80	15 - 120
2,4-Dinitrotoluene	2670	2300		ug/Kg		86	64 - 127
2,6-Dinitrotoluene	2670	2150		ug/Kg		81	65 - 123
2-Chloronaphthalene	2670	1900		ug/Kg		71	57 - 120
2-Chlorophenol	2670	1590		ug/Kg		60	46 - 120
2-Methylnaphthalene	2670	1810		ug/Kg		68	55 - 120
2-Methylphenol	2670	1660		ug/Kg		62	51 - 120
2-Nitroaniline	2670	2110		ug/Kg		79	58 - 129
2-Nitrophenol	2670	1630		ug/Kg		61	46 - 120
3,3'-Dichlorobenzidine	2670	1700		ug/Kg		64	10 - 120
3-Nitroaniline	2670	1800		ug/Kg		67	51 - 120
4,6-Dinitro-2-methylphenol	5330	4660		ug/Kg		87	40 - 123
4-Bromophenyl phenyl ether	2670	2280		ug/Kg		85	69 - 126
4-Chloro-3-methylphenol	2670	2180		ug/Kg		82	55 - 120
4-Chloroaniline	2670	1370		ug/Kg		51	48 - 120
4-Chlorophenyl phenyl ether	2670	2150		ug/Kg		81	66 - 120
4-Methylphenol	2670	1770		ug/Kg		66	51 - 120
4-Nitroaniline	2670	2300		ug/Kg		86	54 - 126
4-Nitrophenol	5330	4300		ug/Kg		81	41 - 145
Acenaphthene	2670	2040		ug/Kg		77	63 - 120
Acenaphthylene	2670	2000		ug/Kg		75	59 - 123
Acetophenone	2670	1640		ug/Kg		61	49 - 120
Anthracene	2670	2420		ug/Kg		91	70 - 125
Atrazine	2670	1870		ug/Kg		70	48 - 136
Benzaldehyde	2670	991		ug/Kg		37	10 - 131
Benzo[a]anthracene	2670	2370		ug/Kg		89	73 - 128
Benzo[a]pyrene	2670	2490		ug/Kg		93	63 - 129
Benzo[b]fluoranthene	2670	2460		ug/Kg		92	68 - 133
Benzo[g,h,i]perylene	2670	2550		ug/Kg		96	66 - 135
Benzo[k]fluoranthene	2670	2420		ug/Kg		91	70 - 133
Biphenyl	2670	1950		ug/Kg		73	59 - 120

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-747407/2-A

Matrix: Solid

Analysis Batch: 747473

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747407

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
bis (2-chloroisopropyl) ether	2670	1470		ug/Kg		55	34 - 120
Bis(2-chloroethoxy)methane	2670	1720		ug/Kg		65	49 - 120
Bis(2-chloroethyl)ether	2670	1500		ug/Kg		56	40 - 120
Bis(2-ethylhexyl) phthalate	2670	2240		ug/Kg		84	65 - 140
Butyl benzyl phthalate	2670	2170		ug/Kg		81	66 - 140
Caprolactam	2670	1580		ug/Kg		59	47 - 120
Carbazole	2670	2430		ug/Kg		91	67 - 127
Chrysene	2670	2320		ug/Kg		87	73 - 127
Dibenz(a,h)anthracene	2670	2380		ug/Kg		89	68 - 133
Dibenzofuran	2670	2150		ug/Kg		80	64 - 120
Diethyl phthalate	2670	2270		ug/Kg		85	62 - 133
Dimethyl phthalate	2670	2180		ug/Kg		82	66 - 125
Di-n-butyl phthalate	2670	2130		ug/Kg		80	65 - 138
Di-n-octyl phthalate	2670	2030		ug/Kg		76	65 - 140
Fluoranthene	2670	2400		ug/Kg		90	66 - 129
Fluorene	2670	2200		ug/Kg		83	66 - 120
Hexachlorobenzene	2670	2350		ug/Kg		88	68 - 129
Hexachlorobutadiene	2670	1640		ug/Kg		61	43 - 122
Hexachlorocyclopentadiene	2670	1430		ug/Kg		54	30 - 125
Hexachloroethane	2670	1410		ug/Kg		53	36 - 120
Indeno[1,2,3-cd]pyrene	2670	2430		ug/Kg		91	68 - 133
Isophorone	2670	1840		ug/Kg		69	54 - 120
Naphthalene	2670	1730		ug/Kg		65	49 - 120
Nitrobenzene	2670	1680		ug/Kg		63	46 - 120
N-Nitrosodi-n-propylamine	2670	1690		ug/Kg		63	48 - 120
N-Nitrosodiphenylamine	2670	2350		ug/Kg		88	69 - 126
Pentachlorophenol	5330	4290		ug/Kg		80	10 - 124
Phenanthrene	2670	2330		ug/Kg		88	69 - 124
Phenol	2670	1630		ug/Kg		61	46 - 120
Pyrene	2670	2420		ug/Kg		91	70 - 141

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	87		10 - 140
2-Fluorobiphenyl (Surr)	73		29 - 120
2-Fluorophenol (Surr)	57		18 - 120
Nitrobenzene-d5 (Surr)	64		22 - 120
Phenol-d5 (Surr)	63		23 - 120
p-Terphenyl-d14 (Surr)	88		28 - 124

Lab Sample ID: 480-229745-3 MS

Matrix: Solid

Analysis Batch: 747473

Client Sample ID: RI-MW-1-MS

Prep Type: Total/NA

Prep Batch: 747407

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	ND		2960	895		ug/Kg	☼	30	13 - 120
2,4,5-Trichlorophenol	ND		2960	2160		ug/Kg	☼	73	46 - 120
2,4,6-Trichlorophenol	ND		2960	2190		ug/Kg	☼	74	41 - 123
2,4-Dichlorophenol	ND		2960	1990		ug/Kg	☼	67	45 - 120

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-229745-3 MS

Matrix: Solid

Analysis Batch: 747473

Client Sample ID: RI-MW-1-MS

Prep Type: Total/NA

Prep Batch: 747407

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dimethylphenol	ND		2960	2000		ug/Kg	✱	68	52 - 120
2,4-Dinitrophenol	ND		5920	3300		ug/Kg	✱	56	41 - 146
2,4-Dinitrotoluene	ND		2960	2230		ug/Kg	✱	75	63 - 125
2,6-Dinitrotoluene	ND		2960	2160		ug/Kg	✱	73	66 - 120
2-Chloronaphthalene	ND		2960	1990		ug/Kg	✱	67	57 - 120
2-Chlorophenol	ND		2960	1760		ug/Kg	✱	60	43 - 120
2-Methylnaphthalene	ND		2960	1930		ug/Kg	✱	65	55 - 120
2-Methylphenol	ND		2960	1850		ug/Kg	✱	63	48 - 120
2-Nitroaniline	ND		2960	2080		ug/Kg	✱	70	61 - 120
2-Nitrophenol	ND		2960	2050		ug/Kg	✱	69	37 - 120
3,3'-Dichlorobenzidine	ND		2960	1670		ug/Kg	✱	56	37 - 126
3-Nitroaniline	ND		2960	1900		ug/Kg	✱	64	48 - 120
4,6-Dinitro-2-methylphenol	ND		5920	3560		ug/Kg	✱	60	23 - 149
4-Bromophenyl phenyl ether	ND		2960	2200		ug/Kg	✱	74	58 - 120
4-Chloro-3-methylphenol	ND		2960	2250		ug/Kg	✱	76	49 - 125
4-Chloroaniline	ND		2960	1330		ug/Kg	✱	45	38 - 120
4-Chlorophenyl phenyl ether	ND		2960	2170		ug/Kg	✱	73	63 - 124
4-Methylphenol	ND		2960	1910		ug/Kg	✱	65	50 - 120
4-Nitroaniline	ND		2960	2060		ug/Kg	✱	70	47 - 120
4-Nitrophenol	ND		5920	4600		ug/Kg	✱	78	31 - 147
Acenaphthene	ND		2960	2090		ug/Kg	✱	71	60 - 120
Acenaphthylene	ND		2960	2060		ug/Kg	✱	70	58 - 121
Acetophenone	ND		2960	1780		ug/Kg	✱	60	47 - 120
Anthracene	ND		2960	2230		ug/Kg	✱	75	62 - 120
Atrazine	ND		2960	1840		ug/Kg	✱	62	60 - 150
Benzaldehyde	ND		2960	1170		ug/Kg	✱	40	10 - 150
Benzo[a]anthracene	ND		2960	2270		ug/Kg	✱	77	65 - 120
Benzo[a]pyrene	ND		2960	2290		ug/Kg	✱	77	64 - 120
Benzo[b]fluoranthene	36 J		2960	2320		ug/Kg	✱	77	10 - 150
Benzo[g,h,i]perylene	ND		2960	2310		ug/Kg	✱	78	45 - 145
Benzo[k]fluoranthene	ND		2960	2200		ug/Kg	✱	74	23 - 150
Biphenyl	ND		2960	2040		ug/Kg	✱	69	58 - 120
bis (2-chloroisopropyl) ether	ND		2960	1660		ug/Kg	✱	56	31 - 120
Bis(2-chloroethoxy)methane	ND		2960	1870		ug/Kg	✱	63	52 - 120
Bis(2-chloroethyl)ether	ND		2960	1630		ug/Kg	✱	55	45 - 120
Bis(2-ethylhexyl) phthalate	ND		2960	2220		ug/Kg	✱	75	61 - 133
Butyl benzyl phthalate	ND		2960	2240		ug/Kg	✱	76	61 - 120
Caprolactam	ND		2960	1460		ug/Kg	✱	49	37 - 133
Carbazole	ND		2960	2300		ug/Kg	✱	78	59 - 120
Chrysene	ND		2960	2180		ug/Kg	✱	74	64 - 120
Dibenz(a,h)anthracene	ND		2960	2220		ug/Kg	✱	75	54 - 132
Dibenzofuran	ND		2960	2140		ug/Kg	✱	72	62 - 120
Diethyl phthalate	ND		2960	2260		ug/Kg	✱	76	66 - 120
Dimethyl phthalate	ND		2960	2140		ug/Kg	✱	72	65 - 124
Di-n-butyl phthalate	ND		2960	2130		ug/Kg	✱	72	58 - 130
Di-n-octyl phthalate	ND		2960	2160		ug/Kg	✱	73	57 - 133
Fluoranthene	45 J		2960	2330		ug/Kg	✱	77	62 - 120
Fluorene	ND		2960	2220		ug/Kg	✱	75	63 - 120
Hexachlorobenzene	ND		2960	2140		ug/Kg	✱	72	60 - 120

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-229745-3 MS

Matrix: Solid

Analysis Batch: 747473

Client Sample ID: RI-MW-1-MS

Prep Type: Total/NA

Prep Batch: 747407

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorobutadiene	ND		2960	1840		ug/Kg	✱	62	45 - 120
Hexachlorocyclopentadiene	ND	F1	2960	1220		ug/Kg	✱	41	31 - 120
Hexachloroethane	ND		2960	1550		ug/Kg	✱	52	21 - 120
Indeno[1,2,3-cd]pyrene	ND		2960	2230		ug/Kg	✱	75	56 - 134
Isophorone	ND		2960	1930		ug/Kg	✱	65	56 - 120
Naphthalene	ND		2960	1880		ug/Kg	✱	63	46 - 120
Nitrobenzene	ND		2960	1770		ug/Kg	✱	60	49 - 120
N-Nitrosodi-n-propylamine	ND		2960	1830		ug/Kg	✱	62	46 - 120
N-Nitrosodiphenylamine	ND		2960	2180		ug/Kg	✱	74	20 - 128
Pentachlorophenol	ND		5920	4010		ug/Kg	✱	68	10 - 136
Phenanthrene	86	J	2960	2180		ug/Kg	✱	71	60 - 122
Phenol	ND		2960	1780		ug/Kg	✱	60	50 - 120
Pyrene	42	J	2960	2360		ug/Kg	✱	78	61 - 133

Surrogate	MS %Recovery	MS Qualifier	MS Limits
2,4,6-Tribromophenol (Surr)	78		10 - 140
2-Fluorobiphenyl (Surr)	70		29 - 120
2-Fluorophenol (Surr)	58		18 - 120
Nitrobenzene-d5 (Surr)	63		22 - 120
Phenol-d5 (Surr)	63		23 - 120
p-Terphenyl-d14 (Surr)	77		28 - 124

Lab Sample ID: 480-229745-3 MSD

Matrix: Solid

Analysis Batch: 747473

Client Sample ID: RI-MW-1-MSD

Prep Type: Total/NA

Prep Batch: 747407

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	ND		2950	959		ug/Kg	✱	32	13 - 120	7	50
2,4,5-Trichlorophenol	ND		2950	2310		ug/Kg	✱	78	46 - 120	6	18
2,4,6-Trichlorophenol	ND		2950	2230		ug/Kg	✱	75	41 - 123	2	19
2,4-Dichlorophenol	ND		2950	1990		ug/Kg	✱	67	45 - 120	0	19
2,4-Dimethylphenol	ND		2950	1970		ug/Kg	✱	67	52 - 120	2	42
2,4-Dinitrophenol	ND		5910	3280		ug/Kg	✱	56	41 - 146	1	22
2,4-Dinitrotoluene	ND		2950	2280		ug/Kg	✱	77	63 - 125	2	20
2,6-Dinitrotoluene	ND		2950	2240		ug/Kg	✱	76	66 - 120	3	15
2-Chloronaphthalene	ND		2950	1990		ug/Kg	✱	67	57 - 120	0	21
2-Chlorophenol	ND		2950	1740		ug/Kg	✱	59	43 - 120	1	25
2-Methylnaphthalene	ND		2950	1850		ug/Kg	✱	63	55 - 120	4	21
2-Methylphenol	ND		2950	1770		ug/Kg	✱	60	48 - 120	5	27
2-Nitroaniline	ND		2950	2150		ug/Kg	✱	73	61 - 120	3	15
2-Nitrophenol	ND		2950	1920		ug/Kg	✱	65	37 - 120	6	18
3,3'-Dichlorobenzidine	ND		2950	1800		ug/Kg	✱	61	37 - 126	8	25
3-Nitroaniline	ND		2950	1810		ug/Kg	✱	61	48 - 120	5	19
4,6-Dinitro-2-methylphenol	ND		5910	4100		ug/Kg	✱	69	23 - 149	14	15
4-Bromophenyl phenyl ether	ND		2950	2290		ug/Kg	✱	77	58 - 120	4	15
4-Chloro-3-methylphenol	ND		2950	2250		ug/Kg	✱	76	49 - 125	0	27
4-Chloroaniline	ND		2950	1290		ug/Kg	✱	44	38 - 120	3	22
4-Chlorophenyl phenyl ether	ND		2950	2190		ug/Kg	✱	74	63 - 124	1	16

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-229745-3 MSD

Matrix: Solid

Analysis Batch: 747473

Client Sample ID: RI-MW-1-MSD

Prep Type: Total/NA

Prep Batch: 747407

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Methylphenol	ND		2950	1900		ug/Kg	✱	64	50 - 120	0	24
4-Nitroaniline	ND		2950	2060		ug/Kg	✱	70	47 - 120	0	24
4-Nitrophenol	ND		5910	4520		ug/Kg	✱	77	31 - 147	2	25
Acenaphthene	ND		2950	2130		ug/Kg	✱	72	60 - 120	2	35
Acenaphthylene	ND		2950	2080		ug/Kg	✱	70	58 - 121	1	18
Acetophenone	ND		2950	1710		ug/Kg	✱	58	47 - 120	4	20
Anthracene	ND		2950	2290		ug/Kg	✱	78	62 - 120	3	15
Atrazine	ND		2950	1880		ug/Kg	✱	64	60 - 150	2	20
Benzaldehyde	ND		2950	1210		ug/Kg	✱	41	10 - 150	4	20
Benzo[a]anthracene	ND		2950	2290		ug/Kg	✱	78	65 - 120	1	15
Benzo[a]pyrene	ND		2950	2390		ug/Kg	✱	81	64 - 120	4	15
Benzo[b]fluoranthene	36 J		2950	2400		ug/Kg	✱	80	10 - 150	3	15
Benzo[g,h,i]perylene	ND		2950	2520		ug/Kg	✱	85	45 - 145	8	15
Benzo[k]fluoranthene	ND		2950	2270		ug/Kg	✱	77	23 - 150	3	22
Biphenyl	ND		2950	2030		ug/Kg	✱	69	58 - 120	1	20
bis (2-chloroisopropyl) ether	ND		2950	1620		ug/Kg	✱	55	31 - 120	2	24
Bis(2-chloroethoxy)methane	ND		2950	1750		ug/Kg	✱	59	52 - 120	7	17
Bis(2-chloroethyl)ether	ND		2950	1630		ug/Kg	✱	55	45 - 120	0	21
Bis(2-ethylhexyl) phthalate	ND		2950	2320		ug/Kg	✱	78	61 - 133	4	15
Butyl benzyl phthalate	ND		2950	2290		ug/Kg	✱	77	61 - 120	2	16
Caprolactam	ND		2950	1540		ug/Kg	✱	52	37 - 133	5	20
Carbazole	ND		2950	2340		ug/Kg	✱	79	59 - 120	2	20
Chrysene	ND		2950	2240		ug/Kg	✱	76	64 - 120	3	15
Dibenz(a,h)anthracene	ND		2950	2370		ug/Kg	✱	80	54 - 132	7	15
Dibenzofuran	ND		2950	2180		ug/Kg	✱	74	62 - 120	2	15
Diethyl phthalate	ND		2950	2240		ug/Kg	✱	76	66 - 120	1	15
Dimethyl phthalate	ND		2950	2160		ug/Kg	✱	73	65 - 124	1	15
Di-n-butyl phthalate	ND		2950	2170		ug/Kg	✱	74	58 - 130	2	15
Di-n-octyl phthalate	ND		2950	2230		ug/Kg	✱	76	57 - 133	3	16
Fluoranthene	45 J		2950	2390		ug/Kg	✱	79	62 - 120	3	15
Fluorene	ND		2950	2240		ug/Kg	✱	76	63 - 120	1	15
Hexachlorobenzene	ND		2950	2290		ug/Kg	✱	77	60 - 120	7	15
Hexachlorobutadiene	ND		2950	1720		ug/Kg	✱	58	45 - 120	6	44
Hexachlorocyclopentadiene	ND F1		2950	883 F1		ug/Kg	✱	30	31 - 120	32	49
Hexachloroethane	ND		2950	1510		ug/Kg	✱	51	21 - 120	3	46
Indeno[1,2,3-cd]pyrene	ND		2950	2390		ug/Kg	✱	81	56 - 134	7	15
Isophorone	ND		2950	1820		ug/Kg	✱	62	56 - 120	6	17
Naphthalene	ND		2950	1780		ug/Kg	✱	60	46 - 120	5	29
Nitrobenzene	ND		2950	1700		ug/Kg	✱	57	49 - 120	4	24
N-Nitrosodi-n-propylamine	ND		2950	1770		ug/Kg	✱	60	46 - 120	3	31
N-Nitrosodiphenylamine	ND		2950	2290		ug/Kg	✱	77	20 - 128	5	15
Pentachlorophenol	ND		5910	4400		ug/Kg	✱	74	10 - 136	9	35
Phenanthrene	86 J		2950	2280		ug/Kg	✱	74	60 - 122	4	15
Phenol	ND		2950	1730		ug/Kg	✱	59	50 - 120	3	35
Pyrene	42 J		2950	2370		ug/Kg	✱	79	61 - 133	1	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	83		10 - 140

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-229745-3 MSD

Matrix: Solid

Analysis Batch: 747473

Client Sample ID: RI-MW-1-MSD

Prep Type: Total/NA

Prep Batch: 747407

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl (Surr)	70		29 - 120
2-Fluorophenol (Surr)	57		18 - 120
Nitrobenzene-d5 (Surr)	61		22 - 120
Phenol-d5 (Surr)	61		23 - 120
p-Terphenyl-d14 (Surr)	79		28 - 124

Lab Sample ID: 480-229745-9 MS

Matrix: Solid

Analysis Batch: 747473

Client Sample ID: RI-MW-5-MS

Prep Type: Total/NA

Prep Batch: 747407

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	ND		2950	933		ug/Kg	✖	32	13 - 120
2,4,5-Trichlorophenol	ND		2950	1950		ug/Kg	✖	66	46 - 120
2,4,6-Trichlorophenol	ND		2950	1980		ug/Kg	✖	67	41 - 123
2,4-Dichlorophenol	ND		2950	1820		ug/Kg	✖	62	45 - 120
2,4-Dimethylphenol	ND		2950	1770		ug/Kg	✖	60	52 - 120
2,4-Dinitrophenol	ND		5890	3110		ug/Kg	✖	53	41 - 146
2,4-Dinitrotoluene	ND		2950	1930		ug/Kg	✖	66	63 - 125
2,6-Dinitrotoluene	ND	F1	2950	1880	F1	ug/Kg	✖	64	66 - 120
2-Chloronaphthalene	ND		2950	1830		ug/Kg	✖	62	57 - 120
2-Chlorophenol	ND		2950	1680		ug/Kg	✖	57	43 - 120
2-Methylnaphthalene	ND		2950	1790		ug/Kg	✖	61	55 - 120
2-Methylphenol	ND		2950	1650		ug/Kg	✖	56	48 - 120
2-Nitroaniline	ND		2950	1870		ug/Kg	✖	64	61 - 120
2-Nitrophenol	ND		2950	1960		ug/Kg	✖	67	37 - 120
3,3'-Dichlorobenzidine	ND	F1	2950	713	F1	ug/Kg	✖	24	37 - 126
3-Nitroaniline	ND	F1	2950	1350	F1	ug/Kg	✖	46	48 - 120
4,6-Dinitro-2-methylphenol	ND		5890	3960		ug/Kg	✖	67	23 - 149
4-Bromophenyl phenyl ether	ND		2950	1950		ug/Kg	✖	66	58 - 120
4-Chloro-3-methylphenol	ND		2950	1940		ug/Kg	✖	66	49 - 125
4-Chloroaniline	ND	F1	2950	1000	F1	ug/Kg	✖	34	38 - 120
4-Chlorophenyl phenyl ether	ND		2950	1890		ug/Kg	✖	64	63 - 124
4-Methylphenol	ND		2950	1700		ug/Kg	✖	58	50 - 120
4-Nitroaniline	ND		2950	1570		ug/Kg	✖	53	47 - 120
4-Nitrophenol	ND		5890	3890		ug/Kg	✖	66	31 - 147
Acenaphthene	ND		2950	1860		ug/Kg	✖	63	60 - 120
Acenaphthylene	ND		2950	1840		ug/Kg	✖	63	58 - 121
Acetophenone	ND		2950	1670		ug/Kg	✖	57	47 - 120
Anthracene	ND	F2	2950	1990		ug/Kg	✖	67	62 - 120
Atrazine	ND	F1	2950	1570	F1	ug/Kg	✖	53	60 - 150
Benzaldehyde	ND		2950	1230		ug/Kg	✖	42	10 - 150
Benzo[a]anthracene	ND	F2	2950	2020		ug/Kg	✖	69	65 - 120
Benzo[a]pyrene	ND	F2	2950	2070		ug/Kg	✖	70	64 - 120
Benzo[b]fluoranthene	ND	F2	2950	2110		ug/Kg	✖	72	10 - 150
Benzo[g,h,i]perylene	ND	F2	2950	2180		ug/Kg	✖	74	45 - 145
Benzo[k]fluoranthene	ND	F2	2950	1920		ug/Kg	✖	65	23 - 150
Biphenyl	ND		2950	1850		ug/Kg	✖	63	58 - 120
bis (2-chloroisopropyl) ether	ND		2950	1620		ug/Kg	✖	55	31 - 120

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-229745-9 MS

Matrix: Solid

Analysis Batch: 747473

Client Sample ID: RI-MW-5-MS

Prep Type: Total/NA

Prep Batch: 747407

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-chloroethoxy)methane	ND		2950	1800		ug/Kg	✖	61	52 - 120
Bis(2-chloroethyl)ether	ND		2950	1620		ug/Kg	✖	55	45 - 120
Bis(2-ethylhexyl) phthalate	ND		2950	2030		ug/Kg	✖	69	61 - 133
Butyl benzyl phthalate	ND		2950	2010		ug/Kg	✖	68	61 - 120
Caprolactam	ND		2950	1310		ug/Kg	✖	44	37 - 133
Carbazole	ND		2950	1950		ug/Kg	✖	66	59 - 120
Chrysene	ND	F2	2950	1940		ug/Kg	✖	66	64 - 120
Dibenz(a,h)anthracene	ND		2950	2030		ug/Kg	✖	69	54 - 132
Dibenzofuran	ND		2950	1920		ug/Kg	✖	65	62 - 120
Diethyl phthalate	ND	F1	2950	1940		ug/Kg	✖	66	66 - 120
Dimethyl phthalate	ND	F1	2950	1890	F1	ug/Kg	✖	64	65 - 124
Di-n-butyl phthalate	ND		2950	1860		ug/Kg	✖	63	58 - 130
Di-n-octyl phthalate	ND		2950	1940		ug/Kg	✖	66	57 - 133
Fluoranthene	ND	F1 F2	2950	2060		ug/Kg	✖	70	62 - 120
Fluorene	ND		2950	1920		ug/Kg	✖	65	63 - 120
Hexachlorobenzene	ND		2950	1940		ug/Kg	✖	66	60 - 120
Hexachlorobutadiene	ND		2950	1750		ug/Kg	✖	59	45 - 120
Hexachlorocyclopentadiene	ND		2950	1270		ug/Kg	✖	43	31 - 120
Hexachloroethane	ND		2950	1540		ug/Kg	✖	52	21 - 120
Indeno[1,2,3-cd]pyrene	ND	F2	2950	2050		ug/Kg	✖	70	56 - 134
Isophorone	ND		2950	1810		ug/Kg	✖	61	56 - 120
Naphthalene	ND		2950	1780		ug/Kg	✖	60	46 - 120
Nitrobenzene	ND		2950	1780		ug/Kg	✖	60	49 - 120
N-Nitrosodi-n-propylamine	ND		2950	1700		ug/Kg	✖	58	46 - 120
N-Nitrosodiphenylamine	ND		2950	1980		ug/Kg	✖	67	20 - 128
Pentachlorophenol	ND		5890	3900		ug/Kg	✖	66	10 - 136
Phenanthrene	ND	F1 F2	2950	2000		ug/Kg	✖	68	60 - 122
Phenol	ND		2950	1620		ug/Kg	✖	55	50 - 120
Pyrene	ND	F1 F2	2950	2130		ug/Kg	✖	72	61 - 133

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	71		10 - 140
2-Fluorobiphenyl (Surr)	64		29 - 120
2-Fluorophenol (Surr)	56		18 - 120
Nitrobenzene-d5 (Surr)	63		22 - 120
Phenol-d5 (Surr)	59		23 - 120
p-Terphenyl-d14 (Surr)	69		28 - 124

Lab Sample ID: 480-229745-9 MSD

Matrix: Solid

Analysis Batch: 747473

Client Sample ID: RI-MW-5-MSD

Prep Type: Total/NA

Prep Batch: 747407

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	ND		2950	980		ug/Kg	✖	33	13 - 120	5	50
2,4,5-Trichlorophenol	ND		2950	1950		ug/Kg	✖	66	46 - 120	0	18
2,4,6-Trichlorophenol	ND		2950	1950		ug/Kg	✖	66	41 - 123	2	19
2,4-Dichlorophenol	ND		2950	1860		ug/Kg	✖	63	45 - 120	2	19
2,4-Dimethylphenol	ND		2950	1760		ug/Kg	✖	60	52 - 120	1	42

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-229745-9 MSD

Matrix: Solid

Analysis Batch: 747473

Client Sample ID: RI-MW-5-MSD

Prep Type: Total/NA

Prep Batch: 747407

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4-Dinitrophenol	ND		5890	2890		ug/Kg	✱	49	41 - 146	7	22
2,4-Dinitrotoluene	ND		2950	1940		ug/Kg	✱	66	63 - 125	0	20
2,6-Dinitrotoluene	ND	F1	2950	1900	F1	ug/Kg	✱	64	66 - 120	1	15
2-Chloronaphthalene	ND		2950	1800		ug/Kg	✱	61	57 - 120	2	21
2-Chlorophenol	ND		2950	1650		ug/Kg	✱	56	43 - 120	2	25
2-Methylnaphthalene	ND		2950	1850		ug/Kg	✱	63	55 - 120	3	21
2-Methylphenol	ND		2950	1660		ug/Kg	✱	56	48 - 120	1	27
2-Nitroaniline	ND		2950	1930		ug/Kg	✱	66	61 - 120	3	15
2-Nitrophenol	ND		2950	1900		ug/Kg	✱	64	37 - 120	3	18
3,3'-Dichlorobenzidine	ND	F1	2950	735	F1	ug/Kg	✱	25	37 - 126	3	25
3-Nitroaniline	ND	F1	2950	1510		ug/Kg	✱	51	48 - 120	11	19
4,6-Dinitro-2-methylphenol	ND		5890	3750		ug/Kg	✱	64	23 - 149	6	15
4-Bromophenyl phenyl ether	ND		2950	1940		ug/Kg	✱	66	58 - 120	1	15
4-Chloro-3-methylphenol	ND		2950	1990		ug/Kg	✱	68	49 - 125	2	27
4-Chloroaniline	ND	F1	2950	1130		ug/Kg	✱	38	38 - 120	12	22
4-Chlorophenyl phenyl ether	ND		2950	1850		ug/Kg	✱	63	63 - 124	2	16
4-Methylphenol	ND		2950	1760		ug/Kg	✱	60	50 - 120	4	24
4-Nitroaniline	ND		2950	1590		ug/Kg	✱	54	47 - 120	2	24
4-Nitrophenol	ND		5890	3840		ug/Kg	✱	65	31 - 147	1	25
Acenaphthene	ND		2950	2190		ug/Kg	✱	74	60 - 120	17	35
Acenaphthylene	ND		2950	1840		ug/Kg	✱	63	58 - 121	0	18
Acetophenone	ND		2950	1660		ug/Kg	✱	56	47 - 120	0	20
Anthracene	ND	F2	2950	2560	F2	ug/Kg	✱	87	62 - 120	25	15
Atrazine	ND	F1	2950	1540	F1	ug/Kg	✱	52	60 - 150	2	20
Benzaldehyde	ND		2950	1200		ug/Kg	✱	41	10 - 150	3	20
Benzo[a]anthracene	ND	F2	2950	3160	F2	ug/Kg	✱	107	65 - 120	44	15
Benzo[a]pyrene	ND	F2	2950	2990	F2	ug/Kg	✱	101	64 - 120	36	15
Benzo[b]fluoranthene	ND	F2	2950	2920	F2	ug/Kg	✱	99	10 - 150	32	15
Benzo[g,h,i]perylene	ND	F2	2950	2910	F2	ug/Kg	✱	99	45 - 145	29	15
Benzo[k]fluoranthene	ND	F2	2950	2460	F2	ug/Kg	✱	84	23 - 150	25	22
Biphenyl	ND		2950	1840		ug/Kg	✱	63	58 - 120	0	20
bis (2-chloroisopropyl) ether	ND		2950	1580		ug/Kg	✱	54	31 - 120	2	24
Bis(2-chloroethoxy)methane	ND		2950	1760		ug/Kg	✱	60	52 - 120	3	17
Bis(2-chloroethyl)ether	ND		2950	1610		ug/Kg	✱	55	45 - 120	1	21
Bis(2-ethylhexyl) phthalate	ND		2950	1990		ug/Kg	✱	67	61 - 133	2	15
Butyl benzyl phthalate	ND		2950	1960		ug/Kg	✱	66	61 - 120	3	16
Caprolactam	ND		2950	1310		ug/Kg	✱	44	37 - 133	0	20
Carbazole	ND		2950	2130		ug/Kg	✱	72	59 - 120	9	20
Chrysene	ND	F2	2950	3120	F2	ug/Kg	✱	106	64 - 120	46	15
Dibenz(a,h)anthracene	ND		2950	2130		ug/Kg	✱	72	54 - 132	5	15
Dibenzofuran	ND		2950	2020		ug/Kg	✱	69	62 - 120	5	15
Diethyl phthalate	ND	F1	2950	1920	F1	ug/Kg	✱	65	66 - 120	1	15
Dimethyl phthalate	ND	F1	2950	1830	F1	ug/Kg	✱	62	65 - 124	3	15
Di-n-butyl phthalate	ND		2950	1870		ug/Kg	✱	63	58 - 130	0	15
Di-n-octyl phthalate	ND		2950	1870		ug/Kg	✱	64	57 - 133	4	16
Fluoranthene	ND	F1 F2	2950	4440	F1 F2	ug/Kg	✱	151	62 - 120	73	15
Fluorene	ND		2950	2210		ug/Kg	✱	75	63 - 120	14	15
Hexachlorobenzene	ND		2950	1920		ug/Kg	✱	65	60 - 120	1	15
Hexachlorobutadiene	ND		2950	1690		ug/Kg	✱	57	45 - 120	3	44

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-229745-9 MSD

Matrix: Solid

Analysis Batch: 747473

Client Sample ID: RI-MW-5-MSD

Prep Type: Total/NA

Prep Batch: 747407

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexachlorocyclopentadiene	ND		2950	1240		ug/Kg	✖	42	31 - 120	3	49
Hexachloroethane	ND		2950	1480		ug/Kg	✖	50	21 - 120	4	46
Indeno[1,2,3-cd]pyrene	ND	F2	2950	2570	F2	ug/Kg	✖	87	56 - 134	22	15
Isophorone	ND		2950	1790		ug/Kg	✖	61	56 - 120	1	17
Naphthalene	ND		2950	1820		ug/Kg	✖	62	46 - 120	2	29
Nitrobenzene	ND		2950	1750		ug/Kg	✖	60	49 - 120	1	24
N-Nitrosodi-n-propylamine	ND		2950	1690		ug/Kg	✖	57	46 - 120	0	31
N-Nitrosodiphenylamine	ND		2950	1980		ug/Kg	✖	67	20 - 128	0	15
Pentachlorophenol	ND		5890	3840		ug/Kg	✖	65	10 - 136	2	35
Phenanthrene	ND	F1 F2	2950	5070	F1 F2	ug/Kg	✖	172	60 - 122	87	15
Phenol	ND		2950	1620		ug/Kg	✖	55	50 - 120	0	35
Pyrene	ND	F1 F2	2950	4910	F1 F2	ug/Kg	✖	167	61 - 133	79	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	71		10 - 140
2-Fluorobiphenyl (Surr)	63		29 - 120
2-Fluorophenol (Surr)	56		18 - 120
Nitrobenzene-d5 (Surr)	61		22 - 120
Phenol-d5 (Surr)	59		23 - 120
p-Terphenyl-d14 (Surr)	67		28 - 124

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-747547/1-A

Matrix: Solid

Analysis Batch: 747625

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747547

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		3.3	0.65	ug/Kg		05/30/25 13:55	06/02/25 11:06	1
4,4'-DDE	ND		3.3	0.70	ug/Kg		05/30/25 13:55	06/02/25 11:06	1
4,4'-DDT	2.61	J	3.3	0.78	ug/Kg		05/30/25 13:55	06/02/25 11:06	1
beta-BHC	ND		3.3	0.60	ug/Kg		05/30/25 13:55	06/02/25 11:06	1
cis-Chlordane	ND		3.3	1.7	ug/Kg		05/30/25 13:55	06/02/25 11:06	1
alpha-BHC	ND		3.3	0.60	ug/Kg		05/30/25 13:55	06/02/25 11:06	1
Aldrin	ND		3.3	0.82	ug/Kg		05/30/25 13:55	06/02/25 11:06	1
delta-BHC	ND		3.3	0.62	ug/Kg		05/30/25 13:55	06/02/25 11:06	1
Dieldrin	ND		3.3	0.80	ug/Kg		05/30/25 13:55	06/02/25 11:06	1
Endosulfan I	ND		3.3	0.64	ug/Kg		05/30/25 13:55	06/02/25 11:06	1
Endosulfan II	ND		3.3	0.60	ug/Kg		05/30/25 13:55	06/02/25 11:06	1
Endosulfan sulfate	0.726	J	3.3	0.62	ug/Kg		05/30/25 13:55	06/02/25 11:06	1
Endrin	ND		3.3	0.66	ug/Kg		05/30/25 13:55	06/02/25 11:06	1
Endrin aldehyde	ND		3.3	0.85	ug/Kg		05/30/25 13:55	06/02/25 11:06	1
Endrin ketone	ND		3.3	0.82	ug/Kg		05/30/25 13:55	06/02/25 11:06	1
gamma-BHC (Lindane)	ND		3.3	0.61	ug/Kg		05/30/25 13:55	06/02/25 11:06	1
trans-Chlordane	ND		3.3	1.1	ug/Kg		05/30/25 13:55	06/02/25 11:06	1
Heptachlor	ND		3.3	0.72	ug/Kg		05/30/25 13:55	06/02/25 11:06	1
Heptachlor epoxide	ND		3.3	0.86	ug/Kg		05/30/25 13:55	06/02/25 11:06	1
Methoxychlor	ND		3.3	0.68	ug/Kg		05/30/25 13:55	06/02/25 11:06	1
Toxaphene	ND		33	19	ug/Kg		05/30/25 13:55	06/02/25 11:06	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	77		45 - 120	05/30/25 13:55	06/02/25 11:06	1
DCB Decachlorobiphenyl	80		45 - 120	05/30/25 13:55	06/02/25 11:06	1
Tetrachloro-m-xylene	70		30 - 124	05/30/25 13:55	06/02/25 11:06	1
Tetrachloro-m-xylene	71		30 - 124	05/30/25 13:55	06/02/25 11:06	1

Lab Sample ID: LCS 480-747547/2-A

Matrix: Solid

Analysis Batch: 747625

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747547

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	33.3	24.5		ug/Kg		73	56 - 120
4,4'-DDE	33.3	24.2		ug/Kg		73	44 - 120
4,4'-DDT	33.3	27.6		ug/Kg		83	38 - 120
beta-BHC	33.3	23.3		ug/Kg		70	40 - 120
cis-Chlordane	33.3	23.4		ug/Kg		70	47 - 120
alpha-BHC	33.3	22.7		ug/Kg		68	39 - 120
Aldrin	33.3	22.9		ug/Kg		69	38 - 120
delta-BHC	33.3	21.6		ug/Kg		65	45 - 120
Dieldrin	33.3	24.6		ug/Kg		74	58 - 120
Endosulfan I	33.3	24.2		ug/Kg		72	49 - 120
Endosulfan II	33.3	24.3		ug/Kg		73	55 - 120
Endosulfan sulfate	33.3	20.2		ug/Kg		61	49 - 124
Endrin	33.3	24.5		ug/Kg		74	58 - 120
Endrin aldehyde	33.3	19.9		ug/Kg		60	37 - 121
Endrin ketone	33.3	23.6		ug/Kg		71	46 - 123
gamma-BHC (Lindane)	33.3	23.7		ug/Kg		71	50 - 120
trans-Chlordane	33.3	23.2		ug/Kg		69	48 - 120
Heptachlor	33.3	25.7		ug/Kg		77	50 - 120
Heptachlor epoxide	33.3	24.5		ug/Kg		74	50 - 120
Methoxychlor	33.3	31.2		ug/Kg		94	58 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	72		45 - 120
DCB Decachlorobiphenyl	78		45 - 120
Tetrachloro-m-xylene	69		30 - 124
Tetrachloro-m-xylene	69		30 - 124

Lab Sample ID: 480-229745-3 MS

Matrix: Solid

Analysis Batch: 747625

Client Sample ID: RI-MW-1-MS

Prep Type: Total/NA

Prep Batch: 747547

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	ND	F1	36.5	23.4	J	ug/Kg	✖	64	37 - 126
4,4'-DDE	ND	F1	36.5	29.3	J	ug/Kg	✖	80	34 - 120
4,4'-DDT	57	J F1 B	36.5	62.1	J F1	ug/Kg	✖	14	43 - 123
beta-BHC	ND	F1	36.5	17.9	J	ug/Kg	✖	49	36 - 120
cis-Chlordane	ND	F1	36.5	ND	F1	ug/Kg	✖	0	35 - 120
alpha-BHC	ND	F1	36.5	18.0	J	ug/Kg	✖	49	39 - 120
Aldrin	ND	F1	36.5	25.3	J	ug/Kg	✖	69	37 - 125
delta-BHC	ND	F1	36.5	16.6	J	ug/Kg	✖	46	34 - 120
Dieldrin	ND	F1	36.5	22.9	J	ug/Kg	✖	63	45 - 120

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-229745-3 MS

Matrix: Solid

Analysis Batch: 747625

Client Sample ID: RI-MW-1-MS

Prep Type: Total/NA

Prep Batch: 747547

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier				Limits		
Endosulfan I	ND	F1	36.5	ND	F1	ug/Kg	☼	0	39 - 120		
Endosulfan II	ND	F1	36.5	ND	F1	ug/Kg	☼	0	34 - 126		
Endosulfan sulfate	ND	F1	36.5	18.1	J	ug/Kg	☼	50	27 - 130		
Endrin	ND	F1	36.5	ND	F1	ug/Kg	☼	0	47 - 121		
Endrin aldehyde	ND	F1	36.5	ND	F1	ug/Kg	☼	0	33 - 123		
Endrin ketone	35	J F1	36.5	37.0	J F1	ug/Kg	☼	7	43 - 126		
gamma-BHC (Lindane)	ND	F1	36.5	17.9	J F1	ug/Kg	☼	49	50 - 120		
trans-Chlordane	ND	F1	36.5	28.8	J	ug/Kg	☼	79	31 - 120		
Heptachlor	ND	F1	36.5	ND	F1	ug/Kg	☼	0	42 - 120		
Heptachlor epoxide	ND	F1	36.5	21.1	J	ug/Kg	☼	58	40 - 120		
Methoxychlor	ND	F1	36.5	74.7	F1	ug/Kg	☼	204	44 - 150		

Lab Sample ID: 480-229745-3 MSD

Matrix: Solid

Analysis Batch: 747625

Client Sample ID: RI-MW-1-MSD

Prep Type: Total/NA

Prep Batch: 747547

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	ND	F1	37.0	ND	F1	ug/Kg	✱	0	37 - 126	NC	21
4,4'-DDE	ND	F1	37.0	ND	F1	ug/Kg	✱	0	34 - 120	NC	18
4,4'-DDT	57	J F1 B	37.0	ND	F1	ug/Kg	✱	0	43 - 123	NC	25
beta-BHC	ND	F1	37.0	ND	F1	ug/Kg	✱	0	36 - 120	NC	19
cis-Chlordane	ND	F1	37.0	ND		ug/Kg	✱	NC	35 - 120	NC	23
alpha-BHC	ND	F1	37.0	ND	F1	ug/Kg	✱	0	39 - 120	NC	15
Aldrin	ND	F1	37.0	ND	F1	ug/Kg	✱	0	37 - 125	NC	12
delta-BHC	ND	F1	37.0	ND	F1	ug/Kg	✱	0	34 - 120	NC	14
Dieldrin	ND	F1	37.0	ND	F1	ug/Kg	✱	0	45 - 120	NC	12
Endosulfan I	ND	F1	37.0	ND	F1	ug/Kg	✱	0	39 - 120	NC	18
Endosulfan II	ND	F1	37.0	ND	F1	ug/Kg	✱	0	34 - 126	NC	26
Endosulfan sulfate	ND	F1	37.0	ND	F1	ug/Kg	✱	0	27 - 130	NC	35
Endrin	ND	F1	37.0	ND	F1	ug/Kg	✱	0	47 - 121	NC	20
Endrin aldehyde	ND	F1	37.0	ND	F1	ug/Kg	✱	0	33 - 123	NC	47
Endrin ketone	35	J F1	37.0	ND	F1	ug/Kg	✱	0	43 - 126	NC	37
gamma-BHC (Lindane)	ND	F1	37.0	ND	F1	ug/Kg	✱	0	50 - 120	NC	12
trans-Chlordane	ND	F1	37.0	ND	F1	ug/Kg	✱	0	31 - 120	NC	15
Heptachlor	ND	F1	37.0	ND	F1	ug/Kg	✱	0	42 - 120	NC	22
Heptachlor epoxide	ND	F1	37.0	ND	F1	ug/Kg	✱	0	40 - 120	NC	15
Methoxychlor	ND	F1	37.0	ND	F1	ug/Kg	✱	0	44 - 150	NC	24
Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits								
DCB Decachlorobiphenyl	0	S1-	45 - 120								
DCB Decachlorobiphenyl	0	S1-	45 - 120								
Tetrachloro-m-xylene	0	S1-	30 - 124								

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-229745-3 MSD

Matrix: Solid

Analysis Batch: 747625

Client Sample ID: RI-MW-1-MSD

Prep Type: Total/NA

Prep Batch: 747547

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
Tetrachloro-m-xylene	0	S1-	30 - 124

Lab Sample ID: 480-229745-9 MS

Matrix: Solid

Analysis Batch: 747625

Client Sample ID: RI-MW-5-MS

Prep Type: Total/NA

Prep Batch: 747547

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	ND	F2 F1	36.8	12.5	F1	ug/Kg	✱	34	37 - 126
4,4'-DDE	ND	F2 F1	36.8	12.1	F1	ug/Kg	✱	33	34 - 120
4,4'-DDT	ND	F2 F1	36.8	13.9	F1	ug/Kg	✱	38	43 - 123
beta-BHC	ND	F2 F1	36.8	11.5	F1	ug/Kg	✱	31	36 - 120
cis-Chlordane	ND	F2 F1	36.8	11.9	F1	ug/Kg	✱	32	35 - 120
alpha-BHC	ND	F2 F1	36.8	11.8	F1	ug/Kg	✱	32	39 - 120
Aldrin	ND	F2 F1	36.8	12.0	F1	ug/Kg	✱	33	37 - 125
delta-BHC	ND	F2 F1	36.8	10.5	F1	ug/Kg	✱	28	34 - 120
Dieldrin	ND	F2 F1	36.8	12.3	F1	ug/Kg	✱	33	45 - 120
Endosulfan I	ND	F2 F1	36.8	11.9	F1	ug/Kg	✱	32	39 - 120
Endosulfan II	ND	F2 F1	36.8	12.1	F1	ug/Kg	✱	33	34 - 126
Endosulfan sulfate	ND	F2 F1	36.8	9.11	F1	ug/Kg	✱	25	27 - 130
Endrin	ND	F2 F1	36.8	12.5	F1	ug/Kg	✱	34	47 - 121
Endrin aldehyde	ND	F2 F1	36.8	9.05	F1	ug/Kg	✱	25	33 - 123
Endrin ketone	ND	F1	36.8	13.0	F1	ug/Kg	✱	35	43 - 126
gamma-BHC (Lindane)	ND	F2 F1	36.8	12.0	F1	ug/Kg	✱	33	50 - 120
trans-Chlordane	ND	F2	36.8	13.2		ug/Kg	✱	36	31 - 120
Heptachlor	ND	F2 F1	36.8	11.1	F1	ug/Kg	✱	30	42 - 120
Heptachlor epoxide	ND	F2 F1	36.8	12.1	F1	ug/Kg	✱	33	40 - 120
Methoxychlor	3.4	J F2 F1	36.8	16.8	F1	ug/Kg	✱	36	44 - 150

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl	37	S1-	45 - 120
DCB Decachlorobiphenyl	46		45 - 120
Tetrachloro-m-xylene	40		30 - 124
Tetrachloro-m-xylene	35		30 - 124

Lab Sample ID: 480-229745-9 MSD

Matrix: Solid

Analysis Batch: 747625

Client Sample ID: RI-MW-5-MSD

Prep Type: Total/NA

Prep Batch: 747547

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	ND	F2 F1	36.7	6.12	F2 F1	ug/Kg	✱	17	37 - 126	68	21
4,4'-DDE	ND	F2 F1	36.7	5.06	F2 F1	ug/Kg	✱	14	34 - 120	82	18
4,4'-DDT	ND	F2 F1	36.7	4.90	F2 F1	ug/Kg	✱	13	43 - 123	96	25
beta-BHC	ND	F2 F1	36.7	8.41	F2 F1	ug/Kg	✱	23	36 - 120	31	19
cis-Chlordane	ND	F2 F1	36.7	5.88	F2 F1	ug/Kg	✱	16	35 - 120	68	23
alpha-BHC	ND	F2 F1	36.7	8.21	F2 F1	ug/Kg	✱	22	39 - 120	36	15
Aldrin	ND	F2 F1	36.7	6.42	F2 F1	ug/Kg	✱	17	37 - 125	61	12
delta-BHC	ND	F2 F1	36.7	6.62	F2 F1	ug/Kg	✱	18	34 - 120	45	14
Dieldrin	ND	F2 F1	36.7	6.42	F2 F1	ug/Kg	✱	18	45 - 120	63	12

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-229745-9 MSD

Matrix: Solid

Analysis Batch: 747625

Client Sample ID: RI-MW-5-MSD

Prep Type: Total/NA

Prep Batch: 747547

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Endosulfan I	ND	F2 F1	36.7	5.75	F2 F1	ug/Kg	✱	16	39 - 120	70	18
Endosulfan II	ND	F2 F1	36.7	6.45	F2 F1	ug/Kg	✱	18	34 - 126	61	26
Endosulfan sulfate	ND	F2 F1	36.7	4.69	F2 F1	ug/Kg	✱	13	27 - 130	64	35
Endrin	ND	F2 F1	36.7	5.75	F2 F1	ug/Kg	✱	16	47 - 121	74	20
Endrin aldehyde	ND	F2 F1	36.7	4.71	F2 F1	ug/Kg	✱	13	33 - 123	63	47
Endrin ketone	ND	F1	36.7	9.15	F1	ug/Kg	✱	25	43 - 126	35	37
gamma-BHC (Lindane)	ND	F2 F1	36.7	8.76	F2 F1	ug/Kg	✱	24	50 - 120	31	12
trans-Chlordane	ND	F2	36.7	25.0	F2	ug/Kg	✱	68	31 - 120	62	15
Heptachlor	ND	F2 F1	36.7	3.85	F2 F1	ug/Kg	✱	11	42 - 120	97	22
Heptachlor epoxide	ND	F2 F1	36.7	8.28	F2 F1	ug/Kg	✱	23	40 - 120	38	15
Methoxychlor	3.4	J F2 F1	36.7	8.08	F2 F1	ug/Kg	✱	13	44 - 150	70	24

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	17	S1-	45 - 120
DCB Decachlorobiphenyl	15	S1-	45 - 120
Tetrachloro-m-xylene	29	S1-	30 - 124
Tetrachloro-m-xylene	28	S1-	30 - 124

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-747543/1-A

Matrix: Solid

Analysis Batch: 747619

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747543

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25	0.049	mg/Kg		05/30/25 13:30	06/02/25 09:23	1
PCB-1221	ND		0.25	0.049	mg/Kg		05/30/25 13:30	06/02/25 09:23	1
PCB-1232	ND		0.25	0.049	mg/Kg		05/30/25 13:30	06/02/25 09:23	1
PCB-1242	ND		0.25	0.049	mg/Kg		05/30/25 13:30	06/02/25 09:23	1
PCB-1248	ND		0.25	0.049	mg/Kg		05/30/25 13:30	06/02/25 09:23	1
PCB-1254	ND		0.25	0.12	mg/Kg		05/30/25 13:30	06/02/25 09:23	1
PCB-1260	ND		0.25	0.12	mg/Kg		05/30/25 13:30	06/02/25 09:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	156	S1+	60 - 154	05/30/25 13:30	06/02/25 09:23	1
Tetrachloro-m-xylene	139		60 - 154	05/30/25 13:30	06/02/25 09:23	1
DCB Decachlorobiphenyl	165		65 - 174	05/30/25 13:30	06/02/25 09:23	1
DCB Decachlorobiphenyl	162		65 - 174	05/30/25 13:30	06/02/25 09:23	1

Lab Sample ID: LCS 480-747543/2-A

Matrix: Solid

Analysis Batch: 747619

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747543

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	2.50	3.46		mg/Kg		138	51 - 185
PCB-1260	2.50	3.61		mg/Kg		145	61 - 184

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 480-747543/2-A

Matrix: Solid

Analysis Batch: 747619

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747543

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Tetrachloro-m-xylene	167	S1+	60 - 154
Tetrachloro-m-xylene	150		60 - 154
DCB Decachlorobiphenyl	170		65 - 174
DCB Decachlorobiphenyl	169		65 - 174

Lab Sample ID: 480-229745-3 MS

Matrix: Solid

Analysis Batch: 747619

Client Sample ID: RI-MW-1-MS

Prep Type: Total/NA

Prep Batch: 747543

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
PCB-1016	ND		2.62	3.72		mg/Kg	⊛	142	50 - 177	
PCB-1260	ND		2.62	3.98		mg/Kg	⊛	152	33 - 200	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Tetrachloro-m-xylene	185	S1+	60 - 154
Tetrachloro-m-xylene	158	S1+	60 - 154
DCB Decachlorobiphenyl	186	S1+	65 - 174
DCB Decachlorobiphenyl	174		65 - 174

Lab Sample ID: 480-229745-3 MSD

Matrix: Solid

Analysis Batch: 747619

Client Sample ID: RI-MW-1-MSD

Prep Type: Total/NA

Prep Batch: 747543

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
PCB-1016	ND		2.69	3.53		mg/Kg	⊛	131	50 - 177	5	50	
PCB-1260	ND		2.69	3.72		mg/Kg	⊛	138	33 - 200	7	50	

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
Tetrachloro-m-xylene	170	S1+	60 - 154
Tetrachloro-m-xylene	150		60 - 154
DCB Decachlorobiphenyl	174		65 - 174
DCB Decachlorobiphenyl	168		65 - 174

Lab Sample ID: 480-229745-9 MS

Matrix: Solid

Analysis Batch: 747619

Client Sample ID: RI-MW-5-MS

Prep Type: Total/NA

Prep Batch: 747543

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
PCB-1016	ND		2.70	3.54		mg/Kg	⊛	131	50 - 177	
PCB-1260	ND		2.70	3.67		mg/Kg	⊛	136	33 - 200	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Tetrachloro-m-xylene	180	S1+	60 - 154
Tetrachloro-m-xylene	152		60 - 154
DCB Decachlorobiphenyl	177	S1+	65 - 174
DCB Decachlorobiphenyl	166		65 - 174

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 480-229745-9 MSD

Matrix: Solid

Analysis Batch: 747619

Client Sample ID: RI-MW-5-MSD

Prep Type: Total/NA

Prep Batch: 747543

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	ND		2.56	2.93		mg/Kg	✖	114	50 - 177	19	50
PCB-1260	ND		2.56	3.12		mg/Kg	✖	122	33 - 200	16	50
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Tetrachloro-m-xylene	175	S1+	60 - 154								
Tetrachloro-m-xylene	155	S1+	60 - 154								
DCB Decachlorobiphenyl	174		65 - 174								
DCB Decachlorobiphenyl	170		65 - 174								

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 410-651525/1-A

Matrix: Solid

Analysis Batch: 652118

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 651525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.40	0.13	ng/g		06/02/25 09:13	06/03/25 11:23	1
Perfluoropentanoic acid (PFPeA)	ND		0.20	0.050	ng/g		06/02/25 09:13	06/03/25 11:23	1
Perfluorohexanoic acid (PFHxA)	ND		0.20	0.060	ng/g		06/02/25 09:13	06/03/25 11:23	1
Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.070	ng/g		06/02/25 09:13	06/03/25 11:23	1
Perfluorooctanoic acid (PFOA)	ND		0.20	0.060	ng/g		06/02/25 09:13	06/03/25 11:23	1
Perfluorononanoic acid (PFNA)	ND		0.20	0.060	ng/g		06/02/25 09:13	06/03/25 11:23	1
Perfluorodecanoic acid (PFDA)	ND		0.20	0.050	ng/g		06/02/25 09:13	06/03/25 11:23	1
Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.050	ng/g		06/02/25 09:13	06/03/25 11:23	1
Perfluorododecanoic acid (PFDoA)	ND		0.20	0.050	ng/g		06/02/25 09:13	06/03/25 11:23	1
Perfluorotridecanoic acid (PFTTrDA)	ND		0.20	0.070	ng/g		06/02/25 09:13	06/03/25 11:23	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.20	0.070	ng/g		06/02/25 09:13	06/03/25 11:23	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.070	ng/g		06/02/25 09:13	06/03/25 11:23	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.20	0.060	ng/g		06/02/25 09:13	06/03/25 11:23	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.050	ng/g		06/02/25 09:13	06/03/25 11:23	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.070	ng/g		06/02/25 09:13	06/03/25 11:23	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.20	0.11	ng/g		06/02/25 09:13	06/03/25 11:23	1
Perfluorononanesulfonic acid (PFNS)	ND		0.20	0.070	ng/g		06/02/25 09:13	06/03/25 11:23	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.050	ng/g		06/02/25 09:13	06/03/25 11:23	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.060	ng/g		06/02/25 09:13	06/03/25 11:23	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.40	0.10	ng/g		06/02/25 09:13	06/03/25 11:23	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.40	0.13	ng/g		06/02/25 09:13	06/03/25 11:23	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.40	0.13	ng/g		06/02/25 09:13	06/03/25 11:23	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.090	ng/g		06/02/25 09:13	06/03/25 11:23	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.20	0.090	ng/g		06/02/25 09:13	06/03/25 11:23	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.20	0.10	ng/g		06/02/25 09:13	06/03/25 11:23	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.20	0.080	ng/g		06/02/25 09:13	06/03/25 11:23	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 410-651525/1-A

Matrix: Solid

Analysis Batch: 652118

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 651525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.20	0.11	ng/g		06/02/25 09:13	06/03/25 11:23	1
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND		1.0	0.30	ng/g		06/02/25 09:13	06/03/25 11:23	1
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND		1.0	0.30	ng/g		06/02/25 09:13	06/03/25 11:23	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.20	0.11	ng/g		06/02/25 09:13	06/03/25 11:23	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.20	0.060	ng/g		06/02/25 09:13	06/03/25 11:23	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.20	0.070	ng/g		06/02/25 09:13	06/03/25 11:23	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.20	0.050	ng/g		06/02/25 09:13	06/03/25 11:23	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.20	0.070	ng/g		06/02/25 09:13	06/03/25 11:23	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.20	0.090	ng/g		06/02/25 09:13	06/03/25 11:23	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.20	0.080	ng/g		06/02/25 09:13	06/03/25 11:23	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.20	0.050	ng/g		06/02/25 09:13	06/03/25 11:23	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.40	0.20	ng/g		06/02/25 09:13	06/03/25 11:23	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		1.0	0.50	ng/g		06/02/25 09:13	06/03/25 11:23	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		1.0	0.40	ng/g		06/02/25 09:13	06/03/25 11:23	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	78.1		8 - 130	06/02/25 09:13	06/03/25 11:23	1
13C5-PFPeA	80.8		35 - 130	06/02/25 09:13	06/03/25 11:23	1
13C5-PFHxA	77.7		40 - 130	06/02/25 09:13	06/03/25 11:23	1
13C4-PFHpA	78.6		40 - 130	06/02/25 09:13	06/03/25 11:23	1
13C8-PFOA	77.4		40 - 130	06/02/25 09:13	06/03/25 11:23	1
13C9-PFNA	75.3		40 - 130	06/02/25 09:13	06/03/25 11:23	1
13C6-PFDA	75.1		40 - 130	06/02/25 09:13	06/03/25 11:23	1
13C7-PFUnA	80.8		40 - 130	06/02/25 09:13	06/03/25 11:23	1
13C2-PFTeDA	91.5		20 - 130	06/02/25 09:13	06/03/25 11:23	1
13C3-PFBS	75.1		40 - 135	06/02/25 09:13	06/03/25 11:23	1
13C3-PFHxS	77.2		40 - 130	06/02/25 09:13	06/03/25 11:23	1
13C8-PFOS	74.3		40 - 130	06/02/25 09:13	06/03/25 11:23	1
13C8-PFOSA	87.0		40 - 130	06/02/25 09:13	06/03/25 11:23	1
d3-NMeFOSAA	82.4		40 - 135	06/02/25 09:13	06/03/25 11:23	1
d5-NEtFOSAA	83.4		40 - 150	06/02/25 09:13	06/03/25 11:23	1
13C2 4:2 FTS	88.3		40 - 165	06/02/25 09:13	06/03/25 11:23	1
13C2 6:2 FTS	110		40 - 215	06/02/25 09:13	06/03/25 11:23	1
13C2 8:2 FTS	96.3		40 - 275	06/02/25 09:13	06/03/25 11:23	1
13C3-HFPO-DA	84.4		40 - 130	06/02/25 09:13	06/03/25 11:23	1
D7-NMeFOSE	79.0		20 - 130	06/02/25 09:13	06/03/25 11:23	1
D9-NEtFOSE	72.8		15 - 130	06/02/25 09:13	06/03/25 11:23	1
d5-NEtPFOSA	71.3		10 - 130	06/02/25 09:13	06/03/25 11:23	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 410-651525/1-A

Matrix: Solid

Analysis Batch: 652118

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 651525

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
d3-NMePFOSA	71.1		10 - 130	06/02/25 09:13	06/03/25 11:23	1
13C2 PFDoA	71.1		40 - 130	06/02/25 09:13	06/03/25 11:23	1

Lab Sample ID: LCS 410-651525/2-A

Matrix: Solid

Analysis Batch: 652118

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 651525

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	5.00	4.61		ng/g		92	70 - 140
Perfluoropentanoic acid (PFPeA)	2.50	2.25		ng/g		90	60 - 150
Perfluorohexanoic acid (PFHxA)	2.50	2.25		ng/g		90	65 - 140
Perfluoroheptanoic acid (PFHpA)	2.50	2.25		ng/g		90	65 - 145
Perfluorooctanoic acid (PFOA)	2.50	2.20		ng/g		88	70 - 150
Perfluorononanoic acid (PFNA)	2.50	2.20		ng/g		88	70 - 155
Perfluorodecanoic acid (PFDA)	2.50	2.17		ng/g		87	70 - 155
Perfluoroundecanoic acid (PFUnA)	2.50	2.41		ng/g		96	70 - 155
Perfluorododecanoic acid (PFDoA)	2.50	2.18		ng/g		87	70 - 150
Perfluorotridecanoic acid (PFTrDA)	2.50	2.36		ng/g		95	65 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.50	2.31		ng/g		92	65 - 150
Perfluorobutanesulfonic acid (PFBS)	2.22	1.83		ng/g		82	65 - 145
Perfluoropentanesulfonic acid (PFPeS)	2.35	1.94		ng/g		83	55 - 160
Perfluorohexanesulfonic acid (PFHxS)	2.28	1.88		ng/g		82	60 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.39	2.07		ng/g		87	65 - 155
Perfluorooctanesulfonic acid (PFOS)	2.33	1.96		ng/g		84	65 - 160
Perfluorononanesulfonic acid (PFNS)	2.41	1.88		ng/g		78	55 - 140
Perfluorodecanesulfonic acid (PFDS)	2.41	1.92		ng/g		80	40 - 155
Perfluorododecanesulfonic acid (PFDoS)	2.43	1.82		ng/g		75	25 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	4.69	4.03		ng/g		86	60 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	4.76	4.00		ng/g		84	55 - 200
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	4.80	4.42		ng/g		92	70 - 150
Perfluorooctanesulfonamide (PFOSA)	2.50	2.11		ng/g		84	70 - 140
N-methylperfluorooctane sulfonamide (NMeFOSA)	2.50	2.28		ng/g		91	70 - 155
N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.50	2.31		ng/g		92	70 - 140
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.50	2.05		ng/g		82	65 - 155

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-651525/2-A

Matrix: Solid

Analysis Batch: 652118

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 651525

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.50	2.28		ng/g		91	65 - 165
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	12.5	10.5		ng/g		84	70 - 140
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	12.5	10.6		ng/g		85	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.88	1.84		ng/g		98	70 - 145
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.37	1.99		ng/g		84	70 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.50	2.22		ng/g		89	30 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.50	2.17		ng/g		87	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.50	2.24		ng/g		90	60 - 155
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.34	2.17		ng/g		93	70 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.36	1.62		ng/g		69	45 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	2.23	2.00		ng/g		90	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	5.00	4.20		ng/g		84	45 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	12.5	10.5		ng/g		84	60 - 130
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	12.5	11.0		ng/g		88	60 - 150

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4-PFBA	94.6		8 - 130
13C5-PFPeA	97.8		35 - 130
13C5-PFHxA	96.3		40 - 130
13C4-PFHpA	98.7		40 - 130
13C8-PFOA	93.6		40 - 130
13C9-PFNA	92.8		40 - 130
13C6-PFDA	98.1		40 - 130
13C7-PFUnA	110		40 - 130
13C2-PFTeDA	89.4		20 - 130
13C3-PFBS	96.1		40 - 135
13C3-PFHxS	100		40 - 130
13C8-PFOS	98.3		40 - 130
13C8-PFOSA	112		40 - 130
d3-NMeFOSAA	89.0		40 - 135
d5-NEtFOSAA	98.5		40 - 150
13C2 4:2 FTS	109		40 - 165
13C2 6:2 FTS	127		40 - 215
13C2 8:2 FTS	103		40 - 275
13C3-HFPO-DA	102		40 - 130
D7-NMeFOSE	89.8		20 - 130

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-651525/2-A

Matrix: Solid

Analysis Batch: 652118

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 651525

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
D9-NEtFOSE	85.2		15 - 130
d5-NEtPFOSA	82.5		10 - 130
d3-NMePFOSA	86.1		10 - 130
13C2 PFDoA	98.8		40 - 130

Lab Sample ID: LLCS 410-651525/3-A

Matrix: Solid

Analysis Batch: 652118

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 651525

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.500	0.512		ng/g		102	70 - 140
Perfluoropentanoic acid (PFPeA)	0.250	0.240		ng/g		96	60 - 150
Perfluorohexanoic acid (PFHxA)	0.250	0.247		ng/g		99	65 - 140
Perfluoroheptanoic acid (PFHpA)	0.250	0.271		ng/g		108	65 - 145
Perfluorooctanoic acid (PFOA)	0.250	0.239		ng/g		96	70 - 150
Perfluorononanoic acid (PFNA)	0.250	0.260		ng/g		104	70 - 155
Perfluorodecanoic acid (PFDA)	0.250	0.262		ng/g		105	70 - 155
Perfluoroundecanoic acid (PFUnA)	0.250	0.268		ng/g		107	70 - 155
Perfluorododecanoic acid (PFDoA)	0.250	0.239		ng/g		95	70 - 150
Perfluorotridecanoic acid (PFTrDA)	0.250	0.229		ng/g		92	65 - 150
Perfluorotetradecanoic acid (PFTeDA)	0.250	0.191	J	ng/g		76	65 - 150
Perfluorobutanesulfonic acid (PFBS)	0.222	0.194	J	ng/g		88	65 - 145
Perfluoropentanesulfonic acid (PFPeS)	0.235	0.235		ng/g		100	55 - 160
Perfluorohexanesulfonic acid (PFHxS)	0.228	0.232		ng/g		102	60 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.239	0.241		ng/g		101	65 - 155
Perfluorooctanesulfonic acid (PFOS)	0.233	0.227		ng/g		98	65 - 160
Perfluorononanesulfonic acid (PFNS)	0.241	0.193	J	ng/g		80	55 - 140
Perfluorodecanesulfonic acid (PFDS)	0.241	0.239		ng/g		99	40 - 155
Perfluorododecanesulfonic acid (PFDoS)	0.243	0.216		ng/g		89	25 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.469	0.438		ng/g		93	60 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.476	0.462		ng/g		97	55 - 200
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.480	0.434		ng/g		90	70 - 150
Perfluorooctanesulfonamide (PFOSA)	0.250	0.222		ng/g		89	70 - 140
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.250	0.271		ng/g		108	70 - 155
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.250	0.251		ng/g		100	70 - 140

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 410-651525/3-A

Matrix: Solid

Analysis Batch: 652118

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 651525

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.250	0.265		ng/g		106	65 - 155
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.250	0.283		ng/g		113	65 - 165
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.25	1.16		ng/g		93	70 - 140
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.25	1.11		ng/g		89	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.188	0.199	J	ng/g		106	70 - 145
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.237	0.206		ng/g		87	70 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.250	0.229		ng/g		92	30 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.250	0.240		ng/g		96	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.250	0.237		ng/g		95	60 - 155
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.234	0.172	J	ng/g		74	70 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.236	0.204		ng/g		86	45 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	0.223	0.207		ng/g		93	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.500	0.403		ng/g		81	45 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	1.25	1.04		ng/g		83	60 - 130
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1.25	1.18		ng/g		94	60 - 150

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	Limits
13C4-PFBA	90.5		8 - 130
13C5-PFPeA	101		35 - 130
13C5-PFHxA	96.0		40 - 130
13C4-PFHpA	91.5		40 - 130
13C8-PFOA	94.4		40 - 130
13C9-PFNA	91.1		40 - 130
13C6-PFDA	91.1		40 - 130
13C7-PFUnA	95.6		40 - 130
13C2-PFTeDA	122		20 - 130
13C3-PFBS	92.0		40 - 135
13C3-PFHxS	95.8		40 - 130
13C8-PFOS	90.1		40 - 130
13C8-PFOSA	96.8		40 - 130
d3-NMeFOSAA	89.0		40 - 135
d5-NEtFOSAA	91.1		40 - 150
13C2 4:2 FTS	107		40 - 165
13C2 6:2 FTS	126		40 - 215
13C2 8:2 FTS	103		40 - 275
13C3-HFPO-DA	100		40 - 130

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 410-651525/3-A

Matrix: Solid

Analysis Batch: 652118

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 651525

Isotope Dilution	LLCS LLCS		Limits
	%Recovery	Qualifier	
D7-NMeFOSE	87.6		20 - 130
D9-NEtFOSE	83.8		15 - 130
d5-NEtPFOSA	83.2		10 - 130
d3-NMePFOSA	78.0		10 - 130
13C2 PFDoA	87.0		40 - 130

Lab Sample ID: 480-229745-3 MS

Matrix: Solid

Analysis Batch: 652118

Client Sample ID: RI-MW-1-MS

Prep Type: Total/NA

Prep Batch: 651525

Analyte	Sample	Sample	Spike	MS MS		Unit	D	%Rec	%Rec	
	Result	Qualifier		Result	Qualifier				Limits	
Perfluorobutanoic acid (PFBA)	ND		4.85	4.58		ng/g	⊛	94	70 - 140	
Perfluoropentanoic acid (PFPeA)	ND		2.42	2.20		ng/g	⊛	91	60 - 150	
Perfluorohexanoic acid (PFHxA)	ND		2.42	2.22		ng/g	⊛	92	65 - 140	
Perfluoroheptanoic acid (PFHpA)	ND		2.42	2.36		ng/g	⊛	97	65 - 145	
Perfluorooctanoic acid (PFOA)	ND		2.42	2.22		ng/g	⊛	92	70 - 150	
Perfluorononanoic acid (PFNA)	ND		2.42	2.14		ng/g	⊛	88	70 - 155	
Perfluorodecanoic acid (PFDA)	ND		2.42	2.20		ng/g	⊛	91	70 - 155	
Perfluoroundecanoic acid (PFUnA)	ND		2.42	2.38		ng/g	⊛	98	70 - 155	
Perfluorododecanoic acid (PFDoA)	ND		2.42	2.23		ng/g	⊛	92	70 - 150	
Perfluorotridecanoic acid (PFTrDA)	ND		2.42	2.30		ng/g	⊛	95	65 - 150	
Perfluorotetradecanoic acid (PFTeDA)	ND		2.42	2.06		ng/g	⊛	85	65 - 150	
Perfluorobutanesulfonic acid (PFBS)	ND		2.15	1.97		ng/g	⊛	91	65 - 145	
Perfluoropentanesulfonic acid (PFPeS)	ND		2.28	2.00		ng/g	⊛	88	55 - 160	
Perfluorohexanesulfonic acid (PFHxS)	ND		2.21	1.85		ng/g	⊛	84	60 - 150	
Perfluoroheptanesulfonic acid (PFHpS)	ND		2.31	2.09		ng/g	⊛	90	65 - 155	
Perfluorooctanesulfonic acid (PFOS)	ND		2.26	2.01		ng/g	⊛	89	65 - 160	
Perfluorononanesulfonic acid (PFNS)	ND		2.33	1.90		ng/g	⊛	81	55 - 140	
Perfluorodecanesulfonic acid (PFDS)	ND		2.34	2.06		ng/g	⊛	88	40 - 155	
Perfluorododecanesulfonic acid (PFDoS)	ND		2.35	2.21		ng/g	⊛	94	25 - 160	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		4.55	4.08		ng/g	⊛	90	60 - 150	
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		4.62	4.12		ng/g	⊛	89	55 - 200	
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		4.66	4.24		ng/g	⊛	91	70 - 150	
Perfluorooctanesulfonamide (PFOSA)	ND		2.42	2.11		ng/g	⊛	87	70 - 140	
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		2.42	2.27		ng/g	⊛	94	70 - 155	

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-229745-3 MS

Matrix: Solid

Analysis Batch: 652118

Client Sample ID: RI-MW-1-MS

Prep Type: Total/NA

Prep Batch: 651525

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		2.42	2.24		ng/g	☼	92	70 - 140
N-methylperfluorooctanesulfonamide (NMtFOSA)	ND		2.42	2.11		ng/g	☼	87	65 - 155
N-ethylperfluorooctanesulfonamide (NEtFOSA)	ND		2.42	2.24		ng/g	☼	92	65 - 165
N-methylperfluorooctanesulfonamide (NMtFOSA)	ND		12.1	10.8		ng/g	☼	89	70 - 140
N-ethylperfluorooctanesulfonamide (NEtFOSA)	ND		12.1	10.3		ng/g	☼	85	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.82	1.80		ng/g	☼	99	70 - 145
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.29	1.96		ng/g	☼	86	70 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		2.42	2.12		ng/g	☼	87	30 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		2.42	2.20		ng/g	☼	91	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		2.42	2.22		ng/g	☼	92	60 - 155
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		2.26	1.88		ng/g	☼	83	70 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		2.29	1.56		ng/g	☼	68	45 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		2.16	1.99		ng/g	☼	92	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		4.85	4.16		ng/g	☼	86	45 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		12.1	10.7		ng/g	☼	88	60 - 130
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		12.1	10.1		ng/g	☼	84	60 - 150

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C4-PFBA	95.6		8 - 130
13C5-PFPeA	104		35 - 130
13C5-PFHxA	100		40 - 130
13C4-PFHpA	97.6		40 - 130
13C8-PFOA	97.5		40 - 130
13C9-PFNA	95.1		40 - 130
13C6-PFDA	95.3		40 - 130
13C7-PFUnA	102		40 - 130
13C2-PFTeDA	108		20 - 130
13C3-PFBS	90.4		40 - 135
13C3-PFHxS	90.5		40 - 130
13C8-PFOS	92.7		40 - 130
13C8-PFOSA	120		40 - 130
d3-NMeFOSAA	89.9		40 - 135
d5-NEtFOSAA	99.5		40 - 150
13C2 4:2 FTS	100		40 - 165
13C2 6:2 FTS	118		40 - 215

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-229745-3 MS

Matrix: Solid

Analysis Batch: 652118

Client Sample ID: RI-MW-1-MS

Prep Type: Total/NA

Prep Batch: 651525

Isotope Dilution	MS MS		Limits
	%Recovery	Qualifier	
13C2 8:2 FTS	95.9		40 - 275
13C3-HFPO-DA	104		40 - 130
D7-NMeFOSE	98.7		20 - 130
D9-NEtFOSE	99.5		15 - 130
d5-NEtPFOSA	88.5		10 - 130
d3-NMePFOSA	87.8		10 - 130
13C2 PFDoA	91.4		40 - 130

Lab Sample ID: 480-229745-3 MSD

Matrix: Solid

Analysis Batch: 652118

Client Sample ID: RI-MW-1-MSD

Prep Type: Total/NA

Prep Batch: 651525

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	ND		4.83	4.66		ng/g	✱	96	70 - 140	2	30
Perfluoropentanoic acid (PFPeA)	ND		2.41	2.26		ng/g	✱	94	60 - 150	3	30
Perfluorohexanoic acid (PFHxA)	ND		2.41	2.17		ng/g	✱	90	65 - 140	2	30
Perfluoroheptanoic acid (PFHpA)	ND		2.41	2.37		ng/g	✱	98	65 - 145	1	30
Perfluorooctanoic acid (PFOA)	ND		2.41	2.13		ng/g	✱	88	70 - 150	4	30
Perfluorononanoic acid (PFNA)	ND		2.41	2.23		ng/g	✱	92	70 - 155	4	30
Perfluorodecanoic acid (PFDA)	ND		2.41	2.19		ng/g	✱	91	70 - 155	1	30
Perfluoroundecanoic acid (PFUnA)	ND		2.41	2.39		ng/g	✱	99	70 - 155	1	30
Perfluorododecanoic acid (PFDoA)	ND		2.41	2.19		ng/g	✱	91	70 - 150	2	30
Perfluorotridecanoic acid (PFTrDA)	ND		2.41	2.32		ng/g	✱	96	65 - 150	1	30
Perfluorotetradecanoic acid (PFTeDA)	ND		2.41	1.99		ng/g	✱	82	65 - 150	4	30
Perfluorobutanesulfonic acid (PFBS)	ND		2.14	1.88		ng/g	✱	88	65 - 145	5	30
Perfluoropentanesulfonic acid (PFPeS)	ND		2.27	1.88		ng/g	✱	83	55 - 160	6	30
Perfluorohexanesulfonic acid (PFHxS)	ND		2.20	1.90		ng/g	✱	86	60 - 150	3	30
Perfluoroheptanesulfonic acid (PFHpS)	ND		2.30	2.05		ng/g	✱	89	65 - 155	2	30
Perfluorooctanesulfonic acid (PFOS)	ND		2.25	2.05		ng/g	✱	91	65 - 160	2	30
Perfluorononanesulfonic acid (PFNS)	ND		2.32	1.88		ng/g	✱	81	55 - 140	1	30
Perfluorodecanesulfonic acid (PFDS)	ND		2.33	2.08		ng/g	✱	89	40 - 155	1	30
Perfluorododecanesulfonic acid (PFDoS)	ND		2.34	2.42		ng/g	✱	104	25 - 160	9	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		4.53	4.22		ng/g	✱	93	60 - 150	3	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		4.60	4.24		ng/g	✱	92	55 - 200	3	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		4.64	4.26		ng/g	✱	92	70 - 150	1	30
Perfluorooctanesulfonamide (PFOSA)	ND		2.41	2.07		ng/g	✱	86	70 - 140	2	30

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-229745-3 MSD

Matrix: Solid

Analysis Batch: 652118

Client Sample ID: RI-MW-1-MSD

Prep Type: Total/NA

Prep Batch: 651525

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		2.41	2.39		ng/g	☼	99	70 - 155	5	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		2.41	2.27		ng/g	☼	94	70 - 140	1	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.41	2.23		ng/g	☼	92	65 - 155	5	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.41	2.47		ng/g	☼	102	65 - 165	10	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		12.1	9.74		ng/g	☼	81	70 - 140	10	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		12.1	10.1		ng/g	☼	84	70 - 135	2	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.81	1.80		ng/g	☼	100	70 - 145	0	30
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND		2.28	1.98		ng/g	☼	87	70 - 160	1	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		2.41	2.14		ng/g	☼	89	30 - 140	1	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		2.41	2.14		ng/g	☼	89	60 - 150	3	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		2.41	2.20		ng/g	☼	91	60 - 155	1	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		2.25	2.07		ng/g	☼	92	70 - 150	10	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		2.28	1.65		ng/g	☼	73	45 - 160	6	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	ND		2.15	1.96		ng/g	☼	91	70 - 140	1	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		4.83	4.25		ng/g	☼	88	45 - 130	2	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		12.1	10.5		ng/g	☼	87	60 - 130	2	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		12.1	10.3		ng/g	☼	85	60 - 150	1	30

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C4-PFBA	92.2		8 - 130
13C5-PFPeA	101		35 - 130
13C5-PFHxA	94.1		40 - 130
13C4-PFHpA	95.2		40 - 130
13C8-PFOA	93.7		40 - 130
13C9-PFNA	90.4		40 - 130
13C6-PFDA	94.2		40 - 130
13C7-PFUnA	107		40 - 130
13C2-PFTeDA	106		20 - 130
13C3-PFBS	89.4		40 - 135
13C3-PFHxS	93.4		40 - 130
13C8-PFOS	91.9		40 - 130
13C8-PFOSA	114		40 - 130
d3-NMeFOSAA	85.9		40 - 135
d5-NEtFOSAA	90.9		40 - 150

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-229745-3 MSD

Matrix: Solid

Analysis Batch: 652118

Client Sample ID: RI-MW-1-MSD

Prep Type: Total/NA

Prep Batch: 651525

Isotope Dilution	MSD MSD		Limits
	%Recovery	Qualifier	
13C2 4:2 FTS	93.8		40 - 165
13C2 6:2 FTS	109		40 - 215
13C2 8:2 FTS	96.1		40 - 275
13C3-HFPO-DA	101		40 - 130
D7-NMeFOSE	96.4		20 - 130
D9-NEtFOSE	93.1		15 - 130
d5-NEtPFOSA	84.6		10 - 130
d3-NMePFOSA	80.8		10 - 130
13C2 PFDaA	94.1		40 - 130

Lab Sample ID: MB 410-651747/1-A

Matrix: Solid

Analysis Batch: 652026

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 651747

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	ND		0.40	0.13	ng/g		06/02/25 14:18	06/03/25 18:15	1
Perfluoropentanoic acid (PFPeA)	ND		0.20	0.050	ng/g		06/02/25 14:18	06/03/25 18:15	1
Perfluorohexanoic acid (PFHxA)	ND		0.20	0.060	ng/g		06/02/25 14:18	06/03/25 18:15	1
Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.070	ng/g		06/02/25 14:18	06/03/25 18:15	1
Perfluorooctanoic acid (PFOA)	ND		0.20	0.060	ng/g		06/02/25 14:18	06/03/25 18:15	1
Perfluorononanoic acid (PFNA)	ND		0.20	0.060	ng/g		06/02/25 14:18	06/03/25 18:15	1
Perfluorodecanoic acid (PFDA)	ND		0.20	0.050	ng/g		06/02/25 14:18	06/03/25 18:15	1
Perfluoroundecanoic acid (PFUnA)	0.222		0.20	0.050	ng/g		06/02/25 14:18	06/03/25 18:15	1
Perfluorododecanoic acid (PFDoA)	ND		0.20	0.050	ng/g		06/02/25 14:18	06/03/25 18:15	1
Perfluorotridecanoic acid (PFTTrDA)	ND		0.20	0.070	ng/g		06/02/25 14:18	06/03/25 18:15	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.20	0.070	ng/g		06/02/25 14:18	06/03/25 18:15	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.070	ng/g		06/02/25 14:18	06/03/25 18:15	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.20	0.060	ng/g		06/02/25 14:18	06/03/25 18:15	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.050	ng/g		06/02/25 14:18	06/03/25 18:15	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.070	ng/g		06/02/25 14:18	06/03/25 18:15	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.20	0.11	ng/g		06/02/25 14:18	06/03/25 18:15	1
Perfluorononanesulfonic acid (PFNS)	ND		0.20	0.070	ng/g		06/02/25 14:18	06/03/25 18:15	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.050	ng/g		06/02/25 14:18	06/03/25 18:15	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.060	ng/g		06/02/25 14:18	06/03/25 18:15	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.40	0.10	ng/g		06/02/25 14:18	06/03/25 18:15	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.40	0.13	ng/g		06/02/25 14:18	06/03/25 18:15	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.40	0.13	ng/g		06/02/25 14:18	06/03/25 18:15	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.090	ng/g		06/02/25 14:18	06/03/25 18:15	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.20	0.090	ng/g		06/02/25 14:18	06/03/25 18:15	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.20	0.10	ng/g		06/02/25 14:18	06/03/25 18:15	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.20	0.080	ng/g		06/02/25 14:18	06/03/25 18:15	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 410-651747/1-A

Matrix: Solid

Analysis Batch: 652026

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 651747

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.20	0.11	ng/g		06/02/25 14:18	06/03/25 18:15	1
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND		1.0	0.30	ng/g		06/02/25 14:18	06/03/25 18:15	1
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND		1.0	0.30	ng/g		06/02/25 14:18	06/03/25 18:15	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.20	0.11	ng/g		06/02/25 14:18	06/03/25 18:15	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.20	0.060	ng/g		06/02/25 14:18	06/03/25 18:15	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.20	0.070	ng/g		06/02/25 14:18	06/03/25 18:15	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.20	0.050	ng/g		06/02/25 14:18	06/03/25 18:15	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.20	0.070	ng/g		06/02/25 14:18	06/03/25 18:15	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.20	0.090	ng/g		06/02/25 14:18	06/03/25 18:15	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.20	0.080	ng/g		06/02/25 14:18	06/03/25 18:15	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.20	0.050	ng/g		06/02/25 14:18	06/03/25 18:15	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.40	0.20	ng/g		06/02/25 14:18	06/03/25 18:15	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		1.0	0.50	ng/g		06/02/25 14:18	06/03/25 18:15	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		1.0	0.40	ng/g		06/02/25 14:18	06/03/25 18:15	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	94.4		8 - 130	06/02/25 14:18	06/03/25 18:15	1
13C5-PFPeA	96.5		35 - 130	06/02/25 14:18	06/03/25 18:15	1
13C5-PFHxA	94.7		40 - 130	06/02/25 14:18	06/03/25 18:15	1
13C4-PFHpA	93.2		40 - 130	06/02/25 14:18	06/03/25 18:15	1
13C8-PFOA	85.2		40 - 130	06/02/25 14:18	06/03/25 18:15	1
13C9-PFNA	89.1		40 - 130	06/02/25 14:18	06/03/25 18:15	1
13C6-PFDA	87.8		40 - 130	06/02/25 14:18	06/03/25 18:15	1
13C7-PFUnA	92.1		40 - 130	06/02/25 14:18	06/03/25 18:15	1
13C2-PFTeDA	71.3		20 - 130	06/02/25 14:18	06/03/25 18:15	1
13C3-PFBS	87.2		40 - 135	06/02/25 14:18	06/03/25 18:15	1
13C3-PFHxS	85.5		40 - 130	06/02/25 14:18	06/03/25 18:15	1
13C8-PFOS	81.7		40 - 130	06/02/25 14:18	06/03/25 18:15	1
13C8-PFOSA	74.3		40 - 130	06/02/25 14:18	06/03/25 18:15	1
d3-NMeFOSAA	74.4		40 - 135	06/02/25 14:18	06/03/25 18:15	1
d5-NEtFOSAA	62.3		40 - 150	06/02/25 14:18	06/03/25 18:15	1
13C2 4:2 FTS	90.3		40 - 165	06/02/25 14:18	06/03/25 18:15	1
13C2 6:2 FTS	99.3		40 - 215	06/02/25 14:18	06/03/25 18:15	1
13C2 8:2 FTS	79.3		40 - 275	06/02/25 14:18	06/03/25 18:15	1
13C3-HFPO-DA	90.0		40 - 130	06/02/25 14:18	06/03/25 18:15	1
D7-NMeFOSE	43.9		20 - 130	06/02/25 14:18	06/03/25 18:15	1
D9-NEtFOSE	34.3		15 - 130	06/02/25 14:18	06/03/25 18:15	1
d5-NEtPFOSA	54.1		10 - 130	06/02/25 14:18	06/03/25 18:15	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 410-651747/1-A

Matrix: Solid

Analysis Batch: 652026

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 651747

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
d3-NMePFOSA	62.7		10 - 130	06/02/25 14:18	06/03/25 18:15	1
13C2 PFDoA	82.5		40 - 130	06/02/25 14:18	06/03/25 18:15	1

Lab Sample ID: LCS 410-651747/2-A

Matrix: Solid

Analysis Batch: 652026

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 651747

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	5.00	4.38		ng/g		88	70 - 140
Perfluoropentanoic acid (PFPeA)	2.50	2.29		ng/g		92	60 - 150
Perfluorohexanoic acid (PFHxA)	2.50	2.14		ng/g		86	65 - 140
Perfluoroheptanoic acid (PFHpA)	2.50	2.46		ng/g		98	65 - 145
Perfluorooctanoic acid (PFOA)	2.50	2.26		ng/g		90	70 - 150
Perfluorononanoic acid (PFNA)	2.50	2.17		ng/g		87	70 - 155
Perfluorodecanoic acid (PFDA)	2.50	2.24		ng/g		89	70 - 155
Perfluoroundecanoic acid (PFUnA)	2.50	2.45		ng/g		98	70 - 155
Perfluorododecanoic acid (PFDoA)	2.50	2.09		ng/g		84	70 - 150
Perfluorotridecanoic acid (PFTrDA)	2.50	2.12		ng/g		85	65 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.50	2.21		ng/g		88	65 - 150
Perfluorobutanesulfonic acid (PFBS)	2.22	1.97		ng/g		89	65 - 145
Perfluoropentanesulfonic acid (PFPeS)	2.35	2.24		ng/g		95	55 - 160
Perfluorohexanesulfonic acid (PFHxS)	2.28	2.03		ng/g		89	60 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.39	2.26		ng/g		95	65 - 155
Perfluorooctanesulfonic acid (PFOS)	2.33	2.05		ng/g		88	65 - 160
Perfluorononanesulfonic acid (PFNS)	2.41	2.06		ng/g		85	55 - 140
Perfluorodecanesulfonic acid (PFDS)	2.41	1.89		ng/g		78	40 - 155
Perfluorododecanesulfonic acid (PFDoS)	2.43	1.66		ng/g		68	25 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	4.69	4.09		ng/g		87	60 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	4.76	4.06		ng/g		85	55 - 200
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	4.80	4.37		ng/g		91	70 - 150
Perfluorooctanesulfonamide (PFOSA)	2.50	2.45		ng/g		98	70 - 140
N-methylperfluorooctane sulfonamide (NMeFOSA)	2.50	2.35		ng/g		94	70 - 155
N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.50	2.48		ng/g		99	70 - 140
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.50	2.23		ng/g		89	65 - 155

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-651747/2-A

Matrix: Solid

Analysis Batch: 652026

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 651747

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
N-ethylperfluorooctanesulfonami doacetic acid (NEtFOSAA)	2.50	2.19		ng/g		88	65 - 165
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	12.5	11.0		ng/g		88	70 - 140
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	12.5	11.3		ng/g		90	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.88	1.77		ng/g		94	70 - 145
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.37	2.33		ng/g		98	70 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.50	2.15		ng/g		86	30 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.50	2.09		ng/g		84	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.50	2.14		ng/g		86	60 - 155
9-Chlorohexadecafluoro-3-oxan onane-1-sulfonic acid (9Cl-PF3ONS)	2.34	2.01		ng/g		86	70 - 150
11-Chloroeicosafluoro-3-oxaund ecane-1-sulfonic acid (11Cl-PF3OUdS)	2.36	1.84		ng/g		78	45 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	2.23	2.16		ng/g		97	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	5.00	3.80		ng/g		76	45 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	12.5	10.2		ng/g		81	60 - 130
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	12.5	9.63		ng/g		77	60 - 150

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C4-PFBA	97.0		8 - 130
13C5-PFPeA	102		35 - 130
13C5-PFHxA	97.1		40 - 130
13C4-PFHpA	95.7		40 - 130
13C8-PFOA	87.0		40 - 130
13C9-PFNA	88.1		40 - 130
13C6-PFDA	85.7		40 - 130
13C7-PFUnA	91.4		40 - 130
13C2-PFTeDA	75.0		20 - 130
13C3-PFBS	92.2		40 - 135
13C3-PFHxS	87.5		40 - 130
13C8-PFOS	85.4		40 - 130
13C8-PFOSA	75.2		40 - 130
d3-NMeFOSAA	81.4		40 - 135
d5-NEtFOSAA	66.4		40 - 150
13C2 4:2 FTS	93.4		40 - 165
13C2 6:2 FTS	105		40 - 215
13C2 8:2 FTS	80.7		40 - 275
13C3-HFPO-DA	90.9		40 - 130
D7-NMeFOSE	36.0		20 - 130

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-651747/2-A

Matrix: Solid

Analysis Batch: 652026

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 651747

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
D9-NEtFOSE	27.3		15 - 130
d5-NEtPFOSA	52.6		10 - 130
d3-NMePFOSA	60.7		10 - 130
13C2 PFDoA	87.2		40 - 130

Lab Sample ID: LLCS 410-651747/3-A

Matrix: Solid

Analysis Batch: 652026

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 651747

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.500	0.528		ng/g		106	70 - 140
Perfluoropentanoic acid (PFPeA)	0.250	0.250		ng/g		100	60 - 150
Perfluorohexanoic acid (PFHxA)	0.250	0.281		ng/g		112	65 - 140
Perfluoroheptanoic acid (PFHpA)	0.250	0.293		ng/g		117	65 - 145
Perfluorooctanoic acid (PFOA)	0.250	0.272		ng/g		109	70 - 150
Perfluorononanoic acid (PFNA)	0.250	0.282		ng/g		113	70 - 155
Perfluorodecanoic acid (PFDA)	0.250	0.291		ng/g		116	70 - 155
Perfluoroundecanoic acid (PFUnA)	0.250	0.272		ng/g		109	70 - 155
Perfluorododecanoic acid (PFDoA)	0.250	0.262		ng/g		105	70 - 150
Perfluorotridecanoic acid (PFTrDA)	0.250	0.268		ng/g		107	65 - 150
Perfluorotetradecanoic acid (PFTeDA)	0.250	0.248		ng/g		99	65 - 150
Perfluorobutanesulfonic acid (PFBS)	0.222	0.236		ng/g		106	65 - 145
Perfluoropentanesulfonic acid (PFPeS)	0.235	0.284		ng/g		121	55 - 160
Perfluorohexanesulfonic acid (PFHxS)	0.228	0.266		ng/g		117	60 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.239	0.294		ng/g		123	65 - 155
Perfluorooctanesulfonic acid (PFOS)	0.233	0.264		ng/g		114	65 - 160
Perfluorononanesulfonic acid (PFNS)	0.241	0.213		ng/g		88	55 - 140
Perfluorodecanesulfonic acid (PFDS)	0.241	0.229		ng/g		95	40 - 155
Perfluorododecanesulfonic acid (PFDoS)	0.243	0.222		ng/g		91	25 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.469	0.464		ng/g		99	60 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.476	0.474		ng/g		100	55 - 200
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.480	0.509		ng/g		106	70 - 150
Perfluorooctanesulfonamide (PFOSA)	0.250	0.263		ng/g		105	70 - 140
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.250	0.293		ng/g		117	70 - 155
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.250	0.301		ng/g		120	70 - 140

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 410-651747/3-A

Matrix: Solid

Analysis Batch: 652026

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 651747

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.250	0.236		ng/g		94	65 - 155
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.250	0.287		ng/g		115	65 - 165
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.25	1.37		ng/g		110	70 - 140
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.25	1.20		ng/g		96	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.188	0.198	J	ng/g		106	70 - 145
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.237	0.255		ng/g		108	70 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.250	0.250		ng/g		100	30 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.250	0.243		ng/g		97	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.250	0.317		ng/g		127	60 - 155
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.234	0.149	J *	ng/g		64	70 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.236	0.154	J	ng/g		65	45 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	0.223	0.242		ng/g		109	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.500	0.447		ng/g		89	45 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	1.25	1.14		ng/g		91	60 - 130
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1.25	1.00		ng/g		80	60 - 150

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	Limits
13C4-PFBA	96.0		8 - 130
13C5-PFPeA	99.2		35 - 130
13C5-PFHxA	94.7		40 - 130
13C4-PFHpA	93.5		40 - 130
13C8-PFOA	83.9		40 - 130
13C9-PFNA	76.3		40 - 130
13C6-PFDA	70.3		40 - 130
13C7-PFUnA	64.6		40 - 130
13C2-PFTeDA	56.9		20 - 130
13C3-PFBS	88.1		40 - 135
13C3-PFHxS	75.9		40 - 130
13C8-PFOS	56.2		40 - 130
13C8-PFOSA	68.6		40 - 130
d3-NMeFOSAA	66.0		40 - 135
d5-NEtFOSAA	53.1		40 - 150
13C2 4:2 FTS	90.4		40 - 165
13C2 6:2 FTS	101		40 - 215
13C2 8:2 FTS	73.5		40 - 275
13C3-HFPO-DA	92.5		40 - 130

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 410-651747/3-A

Matrix: Solid

Analysis Batch: 652026

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 651747

Isotope Dilution	LLCS LLCS		Limits
	%Recovery	Qualifier	
D7-NMeFOSE	35.2		20 - 130
D9-NEtFOSE	31.1		15 - 130
d5-NEtPFOSA	44.0		10 - 130
d3-NMePFOSA	51.5		10 - 130
13C2 PFDoA	63.6		40 - 130

Lab Sample ID: 480-229745-9 MS

Matrix: Solid

Analysis Batch: 652026

Client Sample ID: RI-MW-5-MS

Prep Type: Total/NA

Prep Batch: 651747

Analyte	Sample	Sample	Spike	MS MS		Unit	D	%Rec	%Rec	
	Result	Qualifier		Result	Qualifier				Limits	
Perfluorobutanoic acid (PFBA)	ND		5.01	4.57		ng/g	⊛	91	70 - 140	
Perfluoropentanoic acid (PFPeA)	ND		2.50	2.35		ng/g	⊛	94	60 - 150	
Perfluorohexanoic acid (PFHxA)	ND		2.50	2.20		ng/g	⊛	88	65 - 140	
Perfluoroheptanoic acid (PFHpA)	ND		2.50	2.38		ng/g	⊛	95	65 - 145	
Perfluorooctanoic acid (PFOA)	ND		2.50	2.42		ng/g	⊛	97	70 - 150	
Perfluorononanoic acid (PFNA)	ND		2.50	2.24		ng/g	⊛	89	70 - 155	
Perfluorodecanoic acid (PFDA)	ND		2.50	2.19		ng/g	⊛	88	70 - 155	
Perfluoroundecanoic acid (PFUnA)	ND		2.50	2.32		ng/g	⊛	93	70 - 155	
Perfluorododecanoic acid (PFDoA)	ND		2.50	2.35		ng/g	⊛	94	70 - 150	
Perfluorotridecanoic acid (PFTrDA)	ND		2.50	2.07		ng/g	⊛	83	65 - 150	
Perfluorotetradecanoic acid (PFTeDA)	ND		2.50	2.20		ng/g	⊛	88	65 - 150	
Perfluorobutanesulfonic acid (PFBS)	ND		2.22	2.08		ng/g	⊛	94	65 - 145	
Perfluoropentanesulfonic acid (PFPeS)	ND		2.35	2.37		ng/g	⊛	101	55 - 160	
Perfluorohexanesulfonic acid (PFHxS)	ND		2.28	2.12		ng/g	⊛	93	60 - 150	
Perfluoroheptanesulfonic acid (PFHpS)	ND		2.39	2.65		ng/g	⊛	111	65 - 155	
Perfluorooctanesulfonic acid (PFOS)	ND		2.33	2.19		ng/g	⊛	94	65 - 160	
Perfluorononanesulfonic acid (PFNS)	ND		2.41	1.69		ng/g	⊛	70	55 - 140	
Perfluorodecanesulfonic acid (PFDS)	ND		2.41	1.41		ng/g	⊛	58	40 - 155	
Perfluorododecanesulfonic acid (PFDoS)	ND		2.43	1.15		ng/g	⊛	47	25 - 160	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		4.70	4.33		ng/g	⊛	92	60 - 150	
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		4.77	4.14		ng/g	⊛	87	55 - 200	
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		4.81	4.42		ng/g	⊛	92	70 - 150	
Perfluorooctanesulfonamide (PFOSA)	ND		2.50	2.55		ng/g	⊛	102	70 - 140	
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		2.50	2.45		ng/g	⊛	98	70 - 155	

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-229745-9 MS

Matrix: Solid

Analysis Batch: 652026

Client Sample ID: RI-MW-5-MS

Prep Type: Total/NA

Prep Batch: 651747

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		2.50	2.51		ng/g	☼	100	70 - 140
N-methylperfluorooctanesulfonamide (NMeFOSAA)	ND		2.50	2.16		ng/g	☼	86	65 - 155
N-ethylperfluorooctanesulfonamide (NEtFOSAA)	ND		2.50	2.32		ng/g	☼	93	65 - 165
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.88	1.81		ng/g	☼	96	70 - 145
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND		2.37	2.31		ng/g	☼	97	70 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		2.50	2.27		ng/g	☼	91	30 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		2.50	2.14		ng/g	☼	86	60 - 150
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	ND		2.50	2.57		ng/g	☼	103	60 - 155
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND	F1	2.36	0.956	F1	ng/g	☼	40	45 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		2.23	2.13		ng/g	☼	95	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		5.01	3.99		ng/g	☼	80	45 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		12.5	10.2		ng/g	☼	81	60 - 130
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		12.5	10.4		ng/g	☼	83	60 - 150

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C4-PFBA	87.5		8 - 130
13C5-PFPeA	93.1		35 - 130
13C5-PFHxA	89.6		40 - 130
13C4-PFHpA	88.0		40 - 130
13C8-PFOA	79.5		40 - 130
13C9-PFNA	80.8		40 - 130
13C6-PFDA	74.1		40 - 130
13C7-PFUnA	64.6		40 - 130
13C2-PFTeDA	37.3		20 - 130
13C3-PFBS	80.4		40 - 135
13C3-PFHxS	72.4		40 - 130
13C8-PFOS	57.9		40 - 130
13C8-PFOSA	65.3		40 - 130
d3-NMeFOSAA	77.5		40 - 135
d5-NEtFOSAA	61.2		40 - 150
13C2 4:2 FTS	77.5		40 - 165
13C2 6:2 FTS	87.5		40 - 215
13C2 8:2 FTS	67.3		40 - 275
13C3-HFPO-DA	85.1		40 - 130
d5-NEtPFOSA	41.9		10 - 130
d3-NMePFOSA	51.7		10 - 130
13C2 PFDoA	50.3		40 - 130

QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-229745-9 MSD

Matrix: Solid

Analysis Batch: 652026

Client Sample ID: RI-MW-5-MSD

Prep Type: Total/NA

Prep Batch: 651747

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	ND		4.99	4.52		ng/g	☼	91	70 - 140	1	30
Perfluoropentanoic acid (PFPeA)	ND		2.49	2.37		ng/g	☼	95	60 - 150	1	30
Perfluorohexanoic acid (PFHxA)	ND		2.49	2.14		ng/g	☼	86	65 - 140	3	30
Perfluoroheptanoic acid (PFHpA)	ND		2.49	2.30		ng/g	☼	92	65 - 145	3	30
Perfluorooctanoic acid (PFOA)	ND		2.49	2.27		ng/g	☼	91	70 - 150	6	30
Perfluorononanoic acid (PFNA)	ND		2.49	2.13		ng/g	☼	86	70 - 155	5	30
Perfluorodecanoic acid (PFDA)	ND		2.49	2.11		ng/g	☼	85	70 - 155	4	30
Perfluoroundecanoic acid (PFUnA)	ND		2.49	2.33		ng/g	☼	94	70 - 155	1	30
Perfluorododecanoic acid (PFDoA)	ND		2.49	2.17		ng/g	☼	87	70 - 150	8	30
Perfluorotridecanoic acid (PFTrDA)	ND		2.49	2.15		ng/g	☼	86	65 - 150	4	30
Perfluorotetradecanoic acid (PFTeDA)	ND		2.49	2.32		ng/g	☼	93	65 - 150	6	30
Perfluorobutanesulfonic acid (PFBS)	ND		2.21	2.08		ng/g	☼	94	65 - 145	0	30
Perfluoropentanesulfonic acid (PFPeS)	ND		2.34	2.45		ng/g	☼	105	55 - 160	4	30
Perfluorohexanesulfonic acid (PFHxS)	ND		2.27	2.04		ng/g	☼	90	60 - 150	4	30
Perfluoroheptanesulfonic acid (PFHpS)	ND		2.38	2.68		ng/g	☼	113	65 - 155	1	30
Perfluorooctanesulfonic acid (PFOS)	ND		2.32	2.05		ng/g	☼	89	65 - 160	6	30
Perfluorononanesulfonic acid (PFNS)	ND		2.40	1.84		ng/g	☼	77	55 - 140	8	30
Perfluorodecanesulfonic acid (PFDS)	ND		2.40	1.59		ng/g	☼	66	40 - 155	13	30
Perfluorododecanesulfonic acid (PFDoS)	ND		2.42	1.40		ng/g	☼	58	25 - 160	20	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		4.68	4.08		ng/g	☼	87	60 - 150	6	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		4.75	4.22		ng/g	☼	89	55 - 200	2	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		4.79	4.41		ng/g	☼	92	70 - 150	0	30
Perfluorooctanesulfonamide (PFOSA)	ND		2.49	2.50		ng/g	☼	100	70 - 140	2	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		2.49	2.23		ng/g	☼	89	70 - 155	10	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		2.49	2.46		ng/g	☼	99	70 - 140	2	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.49	2.21		ng/g	☼	89	65 - 155	2	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.49	2.17		ng/g	☼	87	65 - 165	7	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.87	1.91		ng/g	☼	102	70 - 145	6	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.36	2.36		ng/g	☼	100	70 - 160	2	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		2.49	2.23		ng/g	☼	89	30 - 140	2	30

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-229745-9 MSD

Matrix: Solid

Analysis Batch: 652026

Client Sample ID: RI-MW-5-MSD

Prep Type: Total/NA

Prep Batch: 651747

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		2.49	2.11		ng/g	☼	84	60 - 150	2	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		2.49	2.41		ng/g	☼	97	60 - 155	6	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND	F1	2.35	0.998	F1	ng/g	☼	42	45 - 160	4	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		2.22	2.13		ng/g	☼	96	70 - 140	0	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		4.99	3.99		ng/g	☼	80	45 - 130	0	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		12.5	10.6		ng/g	☼	85	60 - 130	4	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		12.5	9.78		ng/g	☼	78	60 - 150	6	30

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C4-PFBA	85.0		8 - 130
13C5-PFPeA	88.9		35 - 130
13C5-PFHxA	85.5		40 - 130
13C4-PFHpA	87.4		40 - 130
13C8-PFOA	76.6		40 - 130
13C9-PFNA	74.8		40 - 130
13C6-PFDA	69.0		40 - 130
13C7-PFUnA	61.1		40 - 130
13C2-PFTeDA	41.0		20 - 130
13C3-PFBS	79.4		40 - 135
13C3-PFHxS	66.1		40 - 130
13C8-PFOS	47.5		40 - 130
13C8-PFOSA	65.1		40 - 130
d3-NMeFOSAA	69.5		40 - 135
d5-NEtFOSAA	59.7		40 - 150
13C2 4:2 FTS	90.0		40 - 165
13C2 6:2 FTS	94.9		40 - 215
13C2 8:2 FTS	70.7		40 - 275
13C3-HFPO-DA	80.0		40 - 130
d5-NEtPFOSA	44.1		10 - 130
d3-NMePFOSA	53.7		10 - 130
13C2 PFDoA	52.9		40 - 130

Lab Sample ID: MB 410-652946/1-A

Matrix: Solid

Analysis Batch: 653393

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 652946

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.40	0.13	ng/g		06/04/25 14:32	06/05/25 11:09	1
Perfluoropentanoic acid (PFPeA)	ND		0.20	0.050	ng/g		06/04/25 14:32	06/05/25 11:09	1
Perfluorohexanoic acid (PFHxA)	ND		0.20	0.060	ng/g		06/04/25 14:32	06/05/25 11:09	1
Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.070	ng/g		06/04/25 14:32	06/05/25 11:09	1
Perfluorooctanoic acid (PFOA)	ND		0.20	0.060	ng/g		06/04/25 14:32	06/05/25 11:09	1
Perfluorononanoic acid (PFNA)	ND		0.20	0.060	ng/g		06/04/25 14:32	06/05/25 11:09	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 410-652946/1-A

Matrix: Solid

Analysis Batch: 653393

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 652946

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanoic acid (PFDA)	ND		0.20	0.050	ng/g		06/04/25 14:32	06/05/25 11:09	1
Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.050	ng/g		06/04/25 14:32	06/05/25 11:09	1
Perfluorododecanoic acid (PFDoA)	ND		0.20	0.050	ng/g		06/04/25 14:32	06/05/25 11:09	1
Perfluorotridecanoic acid (PFTTrDA)	ND		0.20	0.070	ng/g		06/04/25 14:32	06/05/25 11:09	1
Perfluorotetradecanoic acid (PFTeDA)	ND		0.20	0.070	ng/g		06/04/25 14:32	06/05/25 11:09	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.070	ng/g		06/04/25 14:32	06/05/25 11:09	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.20	0.060	ng/g		06/04/25 14:32	06/05/25 11:09	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.050	ng/g		06/04/25 14:32	06/05/25 11:09	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.070	ng/g		06/04/25 14:32	06/05/25 11:09	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.20	0.11	ng/g		06/04/25 14:32	06/05/25 11:09	1
Perfluorononanesulfonic acid (PFNS)	ND		0.20	0.070	ng/g		06/04/25 14:32	06/05/25 11:09	1
Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.050	ng/g		06/04/25 14:32	06/05/25 11:09	1
Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.060	ng/g		06/04/25 14:32	06/05/25 11:09	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.40	0.10	ng/g		06/04/25 14:32	06/05/25 11:09	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.40	0.13	ng/g		06/04/25 14:32	06/05/25 11:09	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.40	0.13	ng/g		06/04/25 14:32	06/05/25 11:09	1
Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.090	ng/g		06/04/25 14:32	06/05/25 11:09	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.20	0.090	ng/g		06/04/25 14:32	06/05/25 11:09	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.20	0.10	ng/g		06/04/25 14:32	06/05/25 11:09	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.20	0.080	ng/g		06/04/25 14:32	06/05/25 11:09	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.20	0.11	ng/g		06/04/25 14:32	06/05/25 11:09	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.0	0.30	ng/g		06/04/25 14:32	06/05/25 11:09	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.0	0.30	ng/g		06/04/25 14:32	06/05/25 11:09	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.20	0.11	ng/g		06/04/25 14:32	06/05/25 11:09	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.20	0.060	ng/g		06/04/25 14:32	06/05/25 11:09	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.20	0.070	ng/g		06/04/25 14:32	06/05/25 11:09	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.20	0.050	ng/g		06/04/25 14:32	06/05/25 11:09	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.20	0.070	ng/g		06/04/25 14:32	06/05/25 11:09	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	ND		0.20	0.090	ng/g		06/04/25 14:32	06/05/25 11:09	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	ND		0.20	0.080	ng/g		06/04/25 14:32	06/05/25 11:09	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.20	0.050	ng/g		06/04/25 14:32	06/05/25 11:09	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.40	0.20	ng/g		06/04/25 14:32	06/05/25 11:09	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 410-652946/1-A

Matrix: Solid

Analysis Batch: 653393

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 652946

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		1.0	0.50	ng/g		06/04/25 14:32	06/05/25 11:09	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		1.0	0.40	ng/g		06/04/25 14:32	06/05/25 11:09	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	44.2		8 - 130	06/04/25 14:32	06/05/25 11:09	1
13C5-PFPeA	60.7		35 - 130	06/04/25 14:32	06/05/25 11:09	1
13C5-PFHxA	81.7		40 - 130	06/04/25 14:32	06/05/25 11:09	1
13C4-PFHpA	79.8		40 - 130	06/04/25 14:32	06/05/25 11:09	1
13C8-PFOA	74.3		40 - 130	06/04/25 14:32	06/05/25 11:09	1
13C9-PFNA	81.8		40 - 130	06/04/25 14:32	06/05/25 11:09	1
13C6-PFDA	80.1		40 - 130	06/04/25 14:32	06/05/25 11:09	1
13C7-PFUnA	84.5		40 - 130	06/04/25 14:32	06/05/25 11:09	1
13C2-PFTeDA	64.7		20 - 130	06/04/25 14:32	06/05/25 11:09	1
13C3-PFBS	73.9		40 - 135	06/04/25 14:32	06/05/25 11:09	1
13C3-PFHxS	82.6		40 - 130	06/04/25 14:32	06/05/25 11:09	1
13C8-PFOS	85.1		40 - 130	06/04/25 14:32	06/05/25 11:09	1
13C8-PFOSA	73.1		40 - 130	06/04/25 14:32	06/05/25 11:09	1
d3-NMeFOSAA	84.7		40 - 135	06/04/25 14:32	06/05/25 11:09	1
d5-NEtFOSAA	94.9		40 - 150	06/04/25 14:32	06/05/25 11:09	1
13C2 4:2 FTS	80.3		40 - 165	06/04/25 14:32	06/05/25 11:09	1
13C2 6:2 FTS	88.7		40 - 215	06/04/25 14:32	06/05/25 11:09	1
13C2 8:2 FTS	83.9		40 - 275	06/04/25 14:32	06/05/25 11:09	1
13C3-HFPO-DA	80.6		40 - 130	06/04/25 14:32	06/05/25 11:09	1
D7-NMeFOSE	52.4		20 - 130	06/04/25 14:32	06/05/25 11:09	1
D9-NEtFOSE	49.0		15 - 130	06/04/25 14:32	06/05/25 11:09	1
d5-NEtPFOSA	68.3		10 - 130	06/04/25 14:32	06/05/25 11:09	1
d3-NMePFOSA	72.0		10 - 130	06/04/25 14:32	06/05/25 11:09	1
13C2 PFDoA	80.0		40 - 130	06/04/25 14:32	06/05/25 11:09	1

Lab Sample ID: LCS 410-652946/2-A

Matrix: Solid

Analysis Batch: 653393

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 652946

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	5.00	4.31		ng/g		86	70 - 140
Perfluoropentanoic acid (PFPeA)	2.50	2.16		ng/g		86	60 - 150
Perfluorohexanoic acid (PFHxA)	2.50	2.15		ng/g		86	65 - 140
Perfluoroheptanoic acid (PFHpA)	2.50	2.39		ng/g		96	65 - 145
Perfluorooctanoic acid (PFOA)	2.50	2.26		ng/g		91	70 - 150
Perfluorononanoic acid (PFNA)	2.50	2.18		ng/g		87	70 - 155
Perfluorodecanoic acid (PFDA)	2.50	2.04		ng/g		82	70 - 155
Perfluoroundecanoic acid (PFUnA)	2.50	2.22		ng/g		89	70 - 155
Perfluorododecanoic acid (PFDoA)	2.50	2.25		ng/g		90	70 - 150
Perfluorotridecanoic acid (PFTrDA)	2.50	2.22		ng/g		89	65 - 150

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-652946/2-A

Matrix: Solid

Analysis Batch: 653393

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 652946

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorotetradecanoic acid (PFTeDA)	2.50	2.16		ng/g		86	65 - 150
Perfluorobutanesulfonic acid (PFBS)	2.22	1.90		ng/g		86	65 - 145
Perfluoropentanesulfonic acid (PFPeS)	2.35	2.22		ng/g		95	55 - 160
Perfluorohexanesulfonic acid (PFHxS)	2.28	1.96		ng/g		86	60 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.39	2.05		ng/g		86	65 - 155
Perfluorooctanesulfonic acid (PFOS)	2.33	2.03		ng/g		88	65 - 160
Perfluorononanesulfonic acid (PFNS)	2.41	1.94		ng/g		81	55 - 140
Perfluorodecanesulfonic acid (PFDS)	2.41	1.97		ng/g		82	40 - 155
Perfluorododecanesulfonic acid (PFDoS)	2.43	1.52		ng/g		63	25 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	4.69	4.14		ng/g		88	60 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	4.76	4.10		ng/g		86	55 - 200
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	4.80	4.34		ng/g		90	70 - 150
Perfluorooctanesulfonamide (PFOSA)	2.50	2.41		ng/g		96	70 - 140
N-methylperfluorooctane sulfonamide (NMeFOSA)	2.50	2.41		ng/g		96	70 - 155
N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.50	2.42		ng/g		97	70 - 140
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.50	1.96		ng/g		78	65 - 155
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.50	2.23		ng/g		89	65 - 165
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	12.5	10.4		ng/g		83	70 - 140
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	12.5	11.1		ng/g		88	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.88	1.73		ng/g		92	70 - 145
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.37	2.14		ng/g		90	70 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.50	2.13		ng/g		85	30 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.50	2.19		ng/g		88	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.50	2.05		ng/g		82	60 - 155
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.34	1.91		ng/g		82	70 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.36	1.71		ng/g		73	45 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	2.23	1.81		ng/g		81	70 - 140

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-652946/2-A

Matrix: Solid

Analysis Batch: 653393

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 652946

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
3-Perfluoropropylpropanoic acid (3:3 FTCA)	5.00	3.93		ng/g		79	45 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	12.5	8.98		ng/g		72	60 - 130
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	12.5	9.28		ng/g		74	60 - 150

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4-PFBA	120		8 - 130
13C5-PFPeA	117		35 - 130
13C5-PFHxA	121		40 - 130
13C4-PFHpA	112		40 - 130
13C8-PFOA	107		40 - 130
13C9-PFNA	102		40 - 130
13C6-PFDA	120		40 - 130
13C7-PFUnA	105		40 - 130
13C2-PFTeDA	83.8		20 - 130
13C3-PFBS	110		40 - 135
13C3-PFHxS	102		40 - 130
13C8-PFOS	101		40 - 130
13C8-PFOSA	85.0		40 - 130
d3-NMeFOSAA	104		40 - 135
d5-NEtFOSAA	101		40 - 150
13C2 4:2 FTS	112		40 - 165
13C2 6:2 FTS	110		40 - 215
13C2 8:2 FTS	104		40 - 275
13C3-HFPO-DA	111		40 - 130
D7-NMeFOSE	54.0		20 - 130
D9-NEtFOSE	44.8		15 - 130
d5-NEtPFOSA	62.2		10 - 130
d3-NMePFOSA	71.6		10 - 130
13C2 PFDoA	92.9		40 - 130

Lab Sample ID: LLCS 410-652946/3-A

Matrix: Solid

Analysis Batch: 653393

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 652946

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.500	0.501		ng/g		100	70 - 140
Perfluoropentanoic acid (PFPeA)	0.250	0.243		ng/g		97	60 - 150
Perfluorohexanoic acid (PFHxA)	0.250	0.285		ng/g		114	65 - 140
Perfluoroheptanoic acid (PFHpA)	0.250	0.279		ng/g		112	65 - 145
Perfluorooctanoic acid (PFOA)	0.250	0.296		ng/g		118	70 - 150
Perfluorononanoic acid (PFNA)	0.250	0.260		ng/g		104	70 - 155
Perfluorodecanoic acid (PFDA)	0.250	0.292		ng/g		117	70 - 155
Perfluoroundecanoic acid (PFUnA)	0.250	0.257		ng/g		103	70 - 155
Perfluorododecanoic acid (PFDoA)	0.250	0.273		ng/g		109	70 - 150

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 410-652946/3-A

Matrix: Solid

Analysis Batch: 653393

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 652946

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorotridecanoic acid (PFTTrDA)	0.250	0.263		ng/g		105	65 - 150
Perfluorotetradecanoic acid (PFTTeDA)	0.250	0.258		ng/g		103	65 - 150
Perfluorobutanesulfonic acid (PFBS)	0.222	0.191	J	ng/g		86	65 - 145
Perfluoropentanesulfonic acid (PFPeS)	0.235	0.260		ng/g		111	55 - 160
Perfluorohexanesulfonic acid (PFHxS)	0.228	0.221		ng/g		97	60 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.239	0.254		ng/g		106	65 - 155
Perfluorooctanesulfonic acid (PFOS)	0.233	0.238		ng/g		102	65 - 160
Perfluorononanesulfonic acid (PFNS)	0.241	0.235		ng/g		98	55 - 140
Perfluorodecanesulfonic acid (PFDS)	0.241	0.232		ng/g		96	40 - 155
Perfluorododecanesulfonic acid (PFDoS)	0.243	0.185	J	ng/g		76	25 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.469	0.463		ng/g		99	60 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.476	0.426		ng/g		89	55 - 200
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.479	0.440		ng/g		92	70 - 150
Perfluorooctanesulfonamide (PFOSA)	0.250	0.249		ng/g		100	70 - 140
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.250	0.290		ng/g		116	70 - 155
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.250	0.277		ng/g		111	70 - 140
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.250	0.219		ng/g		88	65 - 155
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.250	0.279		ng/g		112	65 - 165
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1.25	1.28		ng/g		103	70 - 140
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1.25	1.26		ng/g		101	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.188	0.210		ng/g		112	70 - 145
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.237	0.254		ng/g		107	70 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.250	0.239		ng/g		96	30 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.250	0.243		ng/g		97	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.250	0.253		ng/g		101	60 - 155
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.234	0.230		ng/g		99	70 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.236	0.209		ng/g		89	45 - 160

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 410-652946/3-A

Matrix: Solid

Analysis Batch: 653393

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 652946

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	0.223	0.207		ng/g		93	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.500	0.430		ng/g		86	45 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	1.25	0.972	J	ng/g		78	60 - 130
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1.25	1.06		ng/g		85	60 - 150
LLCS LLCS							
Isotope Dilution	%Recovery	Qualifier	Limits				
13C4-PFBA	107		8 - 130				
13C5-PFPeA	109		35 - 130				
13C5-PFHxA	105		40 - 130				
13C4-PFHpA	105		40 - 130				
13C8-PFOA	102		40 - 130				
13C9-PFNA	100		40 - 130				
13C6-PFDA	99.3		40 - 130				
13C7-PFUnA	94.7		40 - 130				
13C2-PFTeDA	73.4		20 - 130				
13C3-PFBS	103		40 - 135				
13C3-PFHxS	99.2		40 - 130				
13C8-PFOS	100		40 - 130				
13C8-PFOSA	82.2		40 - 130				
d3-NMeFOSAA	96.0		40 - 135				
d5-NEtFOSAA	98.1		40 - 150				
13C2 4:2 FTS	110		40 - 165				
13C2 6:2 FTS	103		40 - 215				
13C2 8:2 FTS	100		40 - 275				
13C3-HFPO-DA	101		40 - 130				
D7-NMeFOSE	53.8		20 - 130				
D9-NEtFOSE	46.9		15 - 130				
d5-NEtPFOSA	61.4		10 - 130				
d3-NMePFOSA	70.6		10 - 130				
13C2 PFDaA	83.8		40 - 130				

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RE

Lab Sample ID: 480-229745-9 MS

Matrix: Solid

Analysis Batch: 653393

Client Sample ID: RI-MW-5-MS

Prep Type: Total/NA

Prep Batch: 652946

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE) - RE	ND		12.5	11.8		ng/g	☼	95	70 - 140
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE) - RE	ND		12.5	12.9		ng/g	☼	103	70 - 135
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS) - RE	ND	F2 F1	2.34	1.90		ng/g	☼	81	70 - 150

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RE (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
13C3-HFPO-DA - RE	108		40 - 130
D7-NMeFOSE - RE	20.2		20 - 130
D9-NEtFOSE - RE	11.0	*5-	15 - 130

Lab Sample ID: 480-229745-9 MSD

Matrix: Solid

Analysis Batch: 653393

Client Sample ID: RI-MW-5-MSD

Prep Type: Total/NA

Prep Batch: 652946

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE) - RE	ND		12.5	11.2		ng/g	⚡	90	70 - 140	6	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE) - RE	ND		12.5	11.5		ng/g	⚡	92	70 - 135	11	30
9-Chlorohexadecafluoro-3-oxan onane-1-sulfonic acid (9Cl-PF3ONS) - RE	ND	F2 F1	2.33	0.817	F2 F1	ng/g	⚡	35	70 - 150	80	30
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>MSD MSD Qualifier</i>	<i>Limits</i>								
13C3-HFPO-DA - RE	80.6		40 - 130								
D7-NMeFOSE - RE	30.0		20 - 130								
D9-NEtFOSE - RE	20.8		15 - 130								

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 480-747394/1-A

Matrix: Solid

Analysis Batch: 747639

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747394

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10.1	8.7	mg/Kg		05/29/25 15:23	05/30/25 21:20	1
Antimony	ND		15.1	0.53	mg/Kg		05/29/25 15:23	05/30/25 21:20	1
Arsenic	ND		2.0	0.88	mg/Kg		05/29/25 15:23	05/30/25 21:20	1
Barium	ND		0.50	0.14	mg/Kg		05/29/25 15:23	05/30/25 21:20	1
Beryllium	0.0603	J ^5-	0.20	0.040	mg/Kg		05/29/25 15:23	05/30/25 21:20	1
Cadmium	ND		0.20	0.070	mg/Kg		05/29/25 15:23	05/30/25 21:20	1
Calcium	ND	^5-	50.3	27.1	mg/Kg		05/29/25 15:23	05/30/25 21:20	1
Chromium	ND		0.50	0.36	mg/Kg		05/29/25 15:23	05/30/25 21:20	1
Cobalt	ND		0.50	0.10	mg/Kg		05/29/25 15:23	05/30/25 21:20	1
Copper	ND		1.0	0.57	mg/Kg		05/29/25 15:23	05/30/25 21:20	1
Iron	ND		10.1	8.5	mg/Kg		05/29/25 15:23	05/30/25 21:20	1
Lead	ND		1.0	0.46	mg/Kg		05/29/25 15:23	05/30/25 21:20	1
Magnesium	ND		20.1	8.5	mg/Kg		05/29/25 15:23	05/30/25 21:20	1
Manganese	ND	^5-	1.0	0.28	mg/Kg		05/29/25 15:23	05/30/25 21:20	1
Nickel	ND	^5-	5.0	0.25	mg/Kg		05/29/25 15:23	05/30/25 21:20	1
Potassium	ND		30.2	24.4	mg/Kg		05/29/25 15:23	05/30/25 21:20	1
Selenium	ND		4.0	0.80	mg/Kg		05/29/25 15:23	05/30/25 21:20	1
Thallium	ND		6.0	0.76	mg/Kg		05/29/25 15:23	05/30/25 21:20	1
Vanadium	ND		0.50	0.13	mg/Kg		05/29/25 15:23	05/30/25 21:20	1
Zinc	ND	^5-	2.0	1.0	mg/Kg		05/29/25 15:23	05/30/25 21:20	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 480-747394/1-A

Matrix: Solid

Analysis Batch: 747956

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747394

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.450	J ^5-	0.60	0.20	mg/Kg		05/29/25 15:23	06/04/25 18:22	1
Sodium	ND		141	61.7	mg/Kg		05/29/25 15:23	06/04/25 18:22	1

Lab Sample ID: LCSSRM 480-747394/2-A

Matrix: Solid

Analysis Batch: 747639

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747394

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	7680	7950		mg/Kg		103.5	47.4 - 130.2
Antimony	201	70.22		mg/Kg		34.9	0.06 - 100.0
Arsenic	181	126.9		mg/Kg		70.1	66.3 - 97.8
Barium	211	173.4		mg/Kg		82.2	73.9 - 107.1
Beryllium	270	215.5		mg/Kg		79.8	73.0 - 104.4
Cadmium	221	157.5		mg/Kg		71.3	70.6 - 101.8
Calcium	4280	3532		mg/Kg		82.5	77.3 - 111.0
Chromium	149	119.0		mg/Kg		79.9	71.8 - 105.4
Cobalt	142	122.4		mg/Kg		86.2	73.2 - 104.2
Copper	264	201.5		mg/Kg		76.3	73.5 - 104.2
Iron	7360	6907		mg/Kg		93.8	55.4 - 130.3
Lead	106	95.68		mg/Kg		90.3	76.1 - 109.4
Magnesium	2170	1907		mg/Kg		87.9	68.7 - 112.0
Manganese	270	213.3		mg/Kg		79.0	73.0 - 107.8
Nickel	177	139.8		mg/Kg		79.0	71.8 - 103.4
Potassium	2340	2147		mg/Kg		91.8	62.8 - 113.7
Selenium	139	101.5		mg/Kg		73.0	70.0 - 107.9
Thallium	205	172.1		mg/Kg		83.9	71.7 - 106.8
Vanadium	155	127.8		mg/Kg		82.4	69.0 - 107.7
Zinc	398	306.0		mg/Kg		76.9	68.8 - 104.5

QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-747394/2-A

Matrix: Solid

Analysis Batch: 747956

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747394

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Silver	59.9	50.72		mg/Kg		84.7	72.8 - 110.7
Sodium	306	278.9		mg/Kg		91.2	66.0 - 113.4

Lab Sample ID: 480-229745-3 MS

Matrix: Solid

Analysis Batch: 747639

Client Sample ID: RI-MW-1-MS

Prep Type: Total/NA

Prep Batch: 747394

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	13400		1120	18220	4	mg/Kg	✱	434	75 - 125
Antimony	1.1	J F1	110	45.85	F1	mg/Kg	✱	41	75 - 125
Arsenic	12.2		220	188.9		mg/Kg	✱	80	75 - 125
Barium	134	F1	220	298.1		mg/Kg	✱	75	75 - 125
Beryllium	1.0	^5- B	109	98.49	^5-	mg/Kg	✱	89	75 - 125
Cadmium	0.16	J	110	90.53		mg/Kg	✱	82	75 - 125
Calcium	10800	^5- F1 F2	5500	5367	^5- F1	mg/Kg	✱	-98	75 - 125
Chromium	17.7		110	117.1		mg/Kg	✱	90	75 - 125
Cobalt	16.4		110	118.8		mg/Kg	✱	93	75 - 125
Copper	40.9		110	136.7		mg/Kg	✱	87	75 - 125
Iron	29800	^2 ^+	1120	31460	4 ^+	mg/Kg	✱	144	75 - 125
Lead	20.6		110	123.9		mg/Kg	✱	94	75 - 125
Magnesium	6750	F1 F2	5500	5980	F1	mg/Kg	✱	-14	75 - 125
Nickel	38.8	^5-	110	135.2	^5-	mg/Kg	✱	88	75 - 125
Potassium	2970	F1 F2	5500	4753	F1	mg/Kg	✱	32	75 - 125
Selenium	1.2	J	220	169.1		mg/Kg	✱	76	75 - 125
Thallium	ND		220	175.6		mg/Kg	✱	80	75 - 125
Vanadium	19.7		110	123.4		mg/Kg	✱	94	75 - 125
Zinc	42.3	^5-	110	139.1	^5-	mg/Kg	✱	88	75 - 125

Lab Sample ID: 480-229745-3 MS

Matrix: Solid

Analysis Batch: 747956

Client Sample ID: RI-MW-1-MS

Prep Type: Total/NA

Prep Batch: 747394

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	308	B F1	110	371.7	F1	mg/Kg	✱	58	75 - 125
Silver	ND	^5-	11.0	10.07	^5-	mg/Kg	✱	92	75 - 125
Sodium	176	F1 F2	5500	184.4	F1	mg/Kg	✱	0.1	75 - 125

Lab Sample ID: 480-229745-3 MSD

Matrix: Solid

Analysis Batch: 747639

Client Sample ID: RI-MW-1-MSD

Prep Type: Total/NA

Prep Batch: 747394

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	13400		1080	18220	4	mg/Kg	✱	451	75 - 125	0	20
Antimony	1.1	J F1	106	54.25	F1	mg/Kg	✱	50	75 - 125	17	20
Arsenic	12.2		212	185.6		mg/Kg	✱	82	75 - 125	2	20
Barium	134	F1	212	283.5	F1	mg/Kg	✱	71	75 - 125	5	20
Beryllium	1.0	^5- B	105	93.88	^5-	mg/Kg	✱	88	75 - 125	5	20
Cadmium	0.16	J	106	87.92		mg/Kg	✱	83	75 - 125	3	20

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 480-229745-3 MSD

Matrix: Solid

Analysis Batch: 747639

Client Sample ID: RI-MW-1-MSD

Prep Type: Total/NA

Prep Batch: 747394

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Calcium	10800	^5- F1 F2	5300	9276	^5- F1 F2	mg/Kg	✱	-28	75 - 125	53	20
Chromium	17.7		106	112.0		mg/Kg	✱	89	75 - 125	4	20
Cobalt	16.4		106	116.1		mg/Kg	✱	94	75 - 125	2	20
Copper	40.9		106	135.3		mg/Kg	✱	89	75 - 125	1	20
Iron	29800	^2 ^+	1080	32650	4 ^+	mg/Kg	✱	260	75 - 125	4	20
Lead	20.6		106	121.2		mg/Kg	✱	95	75 - 125	2	20
Magnesium	6750	F1 F2	5290	10400	F1 F2	mg/Kg	✱	69	75 - 125	54	20
Nickel	38.8	^5-	106	129.5	^5-	mg/Kg	✱	86	75 - 125	4	20
Potassium	2970	F1 F2	5300	8643	F2	mg/Kg	✱	107	75 - 125	58	20
Selenium	1.2	J	212	166.1		mg/Kg	✱	78	75 - 125	2	20
Thallium	ND		212	169.6		mg/Kg	✱	80	75 - 125	3	20
Vanadium	19.7		106	118.4		mg/Kg	✱	93	75 - 125	4	20
Zinc	42.3	^5-	106	130.0	^5-	mg/Kg	✱	83	75 - 125	7	20

Lab Sample ID: 480-229745-3 MSD

Matrix: Solid

Analysis Batch: 747956

Client Sample ID: RI-MW-1-MSD

Prep Type: Total/NA

Prep Batch: 747394

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Manganese	308	B F1	106	347.1	F1	mg/Kg	✱	37	75 - 125	7	20
Silver	ND	^5-	10.6	9.73	^5-	mg/Kg	✱	92	75 - 125	4	20
Sodium	176	F1 F2	5300	5104	F2	mg/Kg	✱	93	75 - 125	186	20

Lab Sample ID: 480-229745-9 MS

Matrix: Solid

Analysis Batch: 747639

Client Sample ID: RI-MW-5-MS

Prep Type: Total/NA

Prep Batch: 747394

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Aluminum	9890		1160	16640	4	mg/Kg	✱	585	75 - 125		
Antimony	ND	F1	113	59.52	F1	mg/Kg	✱	53	75 - 125		
Arsenic	8.6		227	186.4		mg/Kg	✱	78	75 - 125		
Barium	249	F1	227	424.7		mg/Kg	✱	77	75 - 125		
Beryllium	0.50	^5- B	112	95.84	^5-	mg/Kg	✱	85	75 - 125		
Cadmium	0.36		113	90.76		mg/Kg	✱	80	75 - 125		
Chromium	14.1		113	111.4		mg/Kg	✱	86	75 - 125		
Cobalt	10.7		113	109.3		mg/Kg	✱	87	75 - 125		
Copper	33.4		113	131.4		mg/Kg	✱	86	75 - 125		
Iron	23300	^2 ^+	1160	24250	^+ 4	mg/Kg	✱	85	75 - 125		
Lead	16.9		113	120.7		mg/Kg	✱	92	75 - 125		
Magnesium	7270		5670	11570		mg/Kg	✱	76	75 - 125		
Nickel	28.4	^5-	113	118.5	^5-	mg/Kg	✱	79	75 - 125		
Potassium	2120	F1	5670	9023		mg/Kg	✱	122	75 - 125		
Selenium	ND	F1	227	168.9	F1	mg/Kg	✱	74	75 - 125		
Thallium	ND		227	194.3		mg/Kg	✱	86	75 - 125		
Vanadium	15.9		113	119.9		mg/Kg	✱	92	75 - 125		
Zinc	158	^5- F1 F2	113	233.9	^5- F1	mg/Kg	✱	67	75 - 125		

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 480-229745-9 MS

Matrix: Solid

Analysis Batch: 747956

Client Sample ID: RI-MW-5-MS

Prep Type: Total/NA

Prep Batch: 747394

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	26400		5670	32890	4	mg/Kg	✱	115	75 - 125
Manganese	333	B	113	448.6		mg/Kg	✱	102	75 - 125
Silver	ND	^5-	11.3	10.20	^5-	mg/Kg	✱	90	75 - 125
Sodium	121	J	5670	5297		mg/Kg	✱	91	75 - 125

Lab Sample ID: 480-229745-9 MSD

Matrix: Solid

Analysis Batch: 747639

Client Sample ID: RI-MW-5-MSD

Prep Type: Total/NA

Prep Batch: 747394

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	9890		1200	17610	4	mg/Kg	✱	642	75 - 125	6	20
Antimony	ND	F1	118	71.25	F1	mg/Kg	✱	60	75 - 125	18	20
Arsenic	8.6		236	208.5		mg/Kg	✱	85	75 - 125	11	20
Barium	249	F1	236	417.9	F1	mg/Kg	✱	72	75 - 125	2	20
Beryllium	0.50	^5- B	117	107.4	^5-	mg/Kg	✱	91	75 - 125	11	20
Cadmium	0.36		118	101.5		mg/Kg	✱	86	75 - 125	11	20
Chromium	14.1		118	124.3		mg/Kg	✱	93	75 - 125	11	20
Cobalt	10.7		118	121.8		mg/Kg	✱	94	75 - 125	11	20
Copper	33.4		118	141.8		mg/Kg	✱	92	75 - 125	8	20
Iron	23300	^2 ^+	1200	26730	^+ 4	mg/Kg	✱	288	75 - 125	10	20
Lead	16.9		118	135.2		mg/Kg	✱	100	75 - 125	11	20
Magnesium	7270		5890	12910		mg/Kg	✱	96	75 - 125	11	20
Nickel	28.4	^5-	118	132.2	^5-	mg/Kg	✱	88	75 - 125	11	20
Potassium	2120	F1	5890	9836	F1	mg/Kg	✱	131	75 - 125	9	20
Selenium	ND	F1	236	189.9		mg/Kg	✱	81	75 - 125	12	20
Thallium	ND		236	216.3		mg/Kg	✱	92	75 - 125	11	20
Vanadium	15.9		118	131.9		mg/Kg	✱	98	75 - 125	10	20
Zinc	158	^5- F1 F2	118	175.0	^5- F1 F2	mg/Kg	✱	15	75 - 125	29	20

Lab Sample ID: 480-229745-9 MSD

Matrix: Solid

Analysis Batch: 747956

Client Sample ID: RI-MW-5-MSD

Prep Type: Total/NA

Prep Batch: 747394

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	26400		5890	28830	4	mg/Kg	✱	42	75 - 125	13	20
Manganese	333	B	118	422.8		mg/Kg	✱	76	75 - 125	6	20
Silver	ND	^5-	11.8	11.49	^5-	mg/Kg	✱	97	75 - 125	12	20
Sodium	121	J	5890	5891		mg/Kg	✱	98	75 - 125	11	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-747515/1-A

Matrix: Solid

Analysis Batch: 747573

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747515

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.0047	mg/Kg		05/30/25 13:38	05/30/25 15:12	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: LCSSRM 480-747515/2-A ^10

Matrix: Solid

Analysis Batch: 747573

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747515

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	24.0	19.20		mg/Kg		80.0	55.8 - 109.6

Lab Sample ID: 480-229745-3 MS

Matrix: Solid

Analysis Batch: 747573

Client Sample ID: RI-MW-1-MS

Prep Type: Total/NA

Prep Batch: 747515

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.023	F1 F2	0.393	0.762	F1	mg/Kg	✱	188	80 - 120

Lab Sample ID: 480-229745-3 MSD

Matrix: Solid

Analysis Batch: 747573

Client Sample ID: RI-MW-1-MSD

Prep Type: Total/NA

Prep Batch: 747515

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.023	F1 F2	0.370	0.0354	F1 F2	mg/Kg	✱	3	80 - 120	182	20

Lab Sample ID: MB 480-747527/1-A

Matrix: Solid

Analysis Batch: 747573

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747527

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.021	0.0048	mg/Kg		05/30/25 13:38	05/30/25 15:49	1

Lab Sample ID: LCSSRM 480-747527/2-A ^10

Matrix: Solid

Analysis Batch: 747573

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747527

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	24.0	17.58		mg/Kg		73.3	55.8 - 109.6

Lab Sample ID: 480-229745-9 MS

Matrix: Solid

Analysis Batch: 747573

Client Sample ID: RI-MW-5-MS

Prep Type: Total/NA

Prep Batch: 747527

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.015	J	0.389	0.440		mg/Kg	✱	109	80 - 120

Lab Sample ID: 480-229745-9 MSD

Matrix: Solid

Analysis Batch: 747573

Client Sample ID: RI-MW-5-MSD

Prep Type: Total/NA

Prep Batch: 747527

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.015	J	0.366	0.456		mg/Kg	✱	120	80 - 120	4	20

QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 480-747917/1-A

Matrix: Solid

Analysis Batch: 747988

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747917

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.97	0.47	mg/Kg		06/04/25 12:18	06/04/25 16:10	1

Lab Sample ID: LCS 480-747917/3-A

Matrix: Solid

Analysis Batch: 747988

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747917

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.400		mg/Kg		100	29 - 122

Lab Sample ID: LCS 480-747917/4-A

Matrix: Solid

Analysis Batch: 747988

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747917

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.257		mg/Kg		103	29 - 122

Lab Sample ID: LCSSRM 480-747917/2-A

Matrix: Solid

Analysis Batch: 747988

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747917

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	150	89.61		mg/Kg		59.7	38.9 - 138.7

Lab Sample ID: 480-229745-3 MS

Matrix: Solid

Analysis Batch: 747988

Client Sample ID: RI-MW-1-MS

Prep Type: Total/NA

Prep Batch: 747917

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	ND		1.32	1.39		mg/Kg	✱	105	85 - 115

Lab Sample ID: 480-229745-3 MSD

Matrix: Solid

Analysis Batch: 747988

Client Sample ID: RI-MW-1-MSD

Prep Type: Total/NA

Prep Batch: 747917

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	ND		1.20	1.23		mg/Kg	✱	102	85 - 115	12	15

Lab Sample ID: 480-229745-9 MS

Matrix: Solid

Analysis Batch: 747988

Client Sample ID: RI-MW-5-MS

Prep Type: Total/NA

Prep Batch: 747917

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	ND	F1	1.20	1.44	F1	mg/Kg	✱	120	85 - 115

QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method: 9012B - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: 480-229745-9 MSD

Matrix: Solid

Analysis Batch: 747988

Client Sample ID: RI-MW-5-MSD

Prep Type: Total/NA

Prep Batch: 747917

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	ND	F1	1.26	1.50	F1	mg/Kg	✱	119	85 - 115	5	15

QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

GC/MS VOA

Prep Batch: 747439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229745-1	RI-BH-9	Total/NA	Solid	5035A_L	
480-229745-2	RI-BH-10	Total/NA	Solid	5035A_L	
480-229745-4	RI-MW-2	Total/NA	Solid	5035A_L	
480-229745-5	RI-MW-3	Total/NA	Solid	5035A_L	
480-229745-6	RI-MW-3-DUP	Total/NA	Solid	5035A_L	
480-229745-7	RI-MW-4	Total/NA	Solid	5035A_L	
480-229745-8	RI-MW-4-DUP	Total/NA	Solid	5035A_L	
480-229745-9	RI-MW-5	Total/NA	Solid	5035A_L	
MB 480-747439/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-747439/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	
480-229745-2 MS	RI-BH-10	Total/NA	Solid	5035A_L	
480-229745-2 MSD	RI-BH-10	Total/NA	Solid	5035A_L	
480-229745-9 MS	RI-MW-5-MS	Total/NA	Solid	5035A_L	
480-229745-9 MSD	RI-MW-5-MSD	Total/NA	Solid	5035A_L	

Analysis Batch: 747444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229745-1	RI-BH-9	Total/NA	Solid	8260C	747439
480-229745-2	RI-BH-10	Total/NA	Solid	8260C	747439
480-229745-4	RI-MW-2	Total/NA	Solid	8260C	747439
480-229745-5	RI-MW-3	Total/NA	Solid	8260C	747439
480-229745-6	RI-MW-3-DUP	Total/NA	Solid	8260C	747439
480-229745-7	RI-MW-4	Total/NA	Solid	8260C	747439
480-229745-8	RI-MW-4-DUP	Total/NA	Solid	8260C	747439
480-229745-9	RI-MW-5	Total/NA	Solid	8260C	747439
MB 480-747439/2-A	Method Blank	Total/NA	Solid	8260C	747439
LCS 480-747439/1-A	Lab Control Sample	Total/NA	Solid	8260C	747439
480-229745-2 MS	RI-BH-10	Total/NA	Solid	8260C	747439
480-229745-2 MSD	RI-BH-10	Total/NA	Solid	8260C	747439
480-229745-9 MS	RI-MW-5-MS	Total/NA	Solid	8260C	747439
480-229745-9 MSD	RI-MW-5-MSD	Total/NA	Solid	8260C	747439

Prep Batch: 747608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229745-3	RI-MW-1	Total/NA	Solid	5035A_L	
MB 480-747608/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-747608/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	
480-229745-3 MS	RI-MW-1-MS	Total/NA	Solid	5035A_L	
480-229745-3 MSD	RI-MW-1-MSD	Total/NA	Solid	5035A_L	

Analysis Batch: 747613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229745-3	RI-MW-1	Total/NA	Solid	8260C	747608
MB 480-747608/2-A	Method Blank	Total/NA	Solid	8260C	747608
LCS 480-747608/1-A	Lab Control Sample	Total/NA	Solid	8260C	747608
480-229745-3 MS	RI-MW-1-MS	Total/NA	Solid	8260C	747608
480-229745-3 MSD	RI-MW-1-MSD	Total/NA	Solid	8260C	747608

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QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

GC/MS Semi VOA

Prep Batch: 747407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229745-1	RI-BH-9	Total/NA	Solid	3546	
480-229745-2	RI-BH-10	Total/NA	Solid	3546	
480-229745-3	RI-MW-1	Total/NA	Solid	3546	
480-229745-4	RI-MW-2	Total/NA	Solid	3546	
480-229745-5	RI-MW-3	Total/NA	Solid	3546	
480-229745-6	RI-MW-3-DUP	Total/NA	Solid	3546	
480-229745-7	RI-MW-4	Total/NA	Solid	3546	
480-229745-8	RI-MW-4-DUP	Total/NA	Solid	3546	
480-229745-9	RI-MW-5	Total/NA	Solid	3546	
MB 480-747407/1-A	Method Blank	Total/NA	Solid	3546	
LCS 480-747407/2-A	Lab Control Sample	Total/NA	Solid	3546	
480-229745-3 MS	RI-MW-1-MS	Total/NA	Solid	3546	
480-229745-3 MSD	RI-MW-1-MSD	Total/NA	Solid	3546	
480-229745-9 MS	RI-MW-5-MS	Total/NA	Solid	3546	
480-229745-9 MSD	RI-MW-5-MSD	Total/NA	Solid	3546	

Analysis Batch: 747473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229745-1	RI-BH-9	Total/NA	Solid	8270D	747407
480-229745-2	RI-BH-10	Total/NA	Solid	8270D	747407
480-229745-3	RI-MW-1	Total/NA	Solid	8270D	747407
480-229745-4	RI-MW-2	Total/NA	Solid	8270D	747407
480-229745-5	RI-MW-3	Total/NA	Solid	8270D	747407
480-229745-6	RI-MW-3-DUP	Total/NA	Solid	8270D	747407
480-229745-7	RI-MW-4	Total/NA	Solid	8270D	747407
480-229745-8	RI-MW-4-DUP	Total/NA	Solid	8270D	747407
480-229745-9	RI-MW-5	Total/NA	Solid	8270D	747407
MB 480-747407/1-A	Method Blank	Total/NA	Solid	8270D	747407
LCS 480-747407/2-A	Lab Control Sample	Total/NA	Solid	8270D	747407
480-229745-3 MS	RI-MW-1-MS	Total/NA	Solid	8270D	747407
480-229745-3 MSD	RI-MW-1-MSD	Total/NA	Solid	8270D	747407
480-229745-9 MS	RI-MW-5-MS	Total/NA	Solid	8270D	747407
480-229745-9 MSD	RI-MW-5-MSD	Total/NA	Solid	8270D	747407

GC Semi VOA

Prep Batch: 747543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229745-1	RI-BH-9	Total/NA	Solid	3550C	
480-229745-2	RI-BH-10	Total/NA	Solid	3550C	
480-229745-3	RI-MW-1	Total/NA	Solid	3550C	
480-229745-4	RI-MW-2	Total/NA	Solid	3550C	
480-229745-5	RI-MW-3	Total/NA	Solid	3550C	
480-229745-6	RI-MW-3-DUP	Total/NA	Solid	3550C	
480-229745-7	RI-MW-4	Total/NA	Solid	3550C	
480-229745-8	RI-MW-4-DUP	Total/NA	Solid	3550C	
480-229745-9	RI-MW-5	Total/NA	Solid	3550C	
MB 480-747543/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-747543/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-229745-3 MS	RI-MW-1-MS	Total/NA	Solid	3550C	
480-229745-3 MSD	RI-MW-1-MSD	Total/NA	Solid	3550C	

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QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

GC Semi VOA (Continued)

Prep Batch: 747543 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229745-9 MS	RI-MW-5-MS	Total/NA	Solid	3550C	
480-229745-9 MSD	RI-MW-5-MSD	Total/NA	Solid	3550C	

Prep Batch: 747547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229745-1	RI-BH-9	Total/NA	Solid	3546	
480-229745-2	RI-BH-10	Total/NA	Solid	3546	
480-229745-3	RI-MW-1	Total/NA	Solid	3546	
480-229745-4	RI-MW-2	Total/NA	Solid	3546	
480-229745-5	RI-MW-3	Total/NA	Solid	3546	
480-229745-6	RI-MW-3-DUP	Total/NA	Solid	3546	
480-229745-7	RI-MW-4	Total/NA	Solid	3546	
480-229745-8	RI-MW-4-DUP	Total/NA	Solid	3546	
480-229745-9	RI-MW-5	Total/NA	Solid	3546	
MB 480-747547/1-A	Method Blank	Total/NA	Solid	3546	
LCS 480-747547/2-A	Lab Control Sample	Total/NA	Solid	3546	
480-229745-3 MS	RI-MW-1-MS	Total/NA	Solid	3546	
480-229745-3 MSD	RI-MW-1-MSD	Total/NA	Solid	3546	
480-229745-9 MS	RI-MW-5-MS	Total/NA	Solid	3546	
480-229745-9 MSD	RI-MW-5-MSD	Total/NA	Solid	3546	

Analysis Batch: 747619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229745-1	RI-BH-9	Total/NA	Solid	8082A	747543
480-229745-2	RI-BH-10	Total/NA	Solid	8082A	747543
480-229745-3	RI-MW-1	Total/NA	Solid	8082A	747543
480-229745-4	RI-MW-2	Total/NA	Solid	8082A	747543
480-229745-5	RI-MW-3	Total/NA	Solid	8082A	747543
480-229745-6	RI-MW-3-DUP	Total/NA	Solid	8082A	747543
480-229745-7	RI-MW-4	Total/NA	Solid	8082A	747543
480-229745-8	RI-MW-4-DUP	Total/NA	Solid	8082A	747543
480-229745-9	RI-MW-5	Total/NA	Solid	8082A	747543
MB 480-747543/1-A	Method Blank	Total/NA	Solid	8082A	747543
LCS 480-747543/2-A	Lab Control Sample	Total/NA	Solid	8082A	747543
480-229745-3 MS	RI-MW-1-MS	Total/NA	Solid	8082A	747543
480-229745-3 MSD	RI-MW-1-MSD	Total/NA	Solid	8082A	747543
480-229745-9 MS	RI-MW-5-MS	Total/NA	Solid	8082A	747543
480-229745-9 MSD	RI-MW-5-MSD	Total/NA	Solid	8082A	747543

Analysis Batch: 747625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229745-3	RI-MW-1	Total/NA	Solid	8081B	747547
480-229745-4	RI-MW-2	Total/NA	Solid	8081B	747547
480-229745-5	RI-MW-3	Total/NA	Solid	8081B	747547
480-229745-6	RI-MW-3-DUP	Total/NA	Solid	8081B	747547
480-229745-7	RI-MW-4	Total/NA	Solid	8081B	747547
480-229745-8	RI-MW-4-DUP	Total/NA	Solid	8081B	747547
480-229745-9	RI-MW-5	Total/NA	Solid	8081B	747547
MB 480-747547/1-A	Method Blank	Total/NA	Solid	8081B	747547
LCS 480-747547/2-A	Lab Control Sample	Total/NA	Solid	8081B	747547
480-229745-3 MS	RI-MW-1-MS	Total/NA	Solid	8081B	747547

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QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

GC Semi VOA (Continued)

Analysis Batch: 747625 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229745-3 MSD	RI-MW-1-MSD	Total/NA	Solid	8081B	747547
480-229745-9 MS	RI-MW-5-MS	Total/NA	Solid	8081B	747547
480-229745-9 MSD	RI-MW-5-MSD	Total/NA	Solid	8081B	747547

Analysis Batch: 747713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229745-1	RI-BH-9	Total/NA	Solid	8081B	747547
480-229745-2	RI-BH-10	Total/NA	Solid	8081B	747547

LCMS

Prep Batch: 651525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229745-1	RI-BH-9	Total/NA	Solid	1633 Shake	
480-229745-2	RI-BH-10	Total/NA	Solid	1633 Shake	
480-229745-3	RI-MW-1	Total/NA	Solid	1633 Shake	
480-229745-4	RI-MW-2	Total/NA	Solid	1633 Shake	
480-229745-5	RI-MW-3	Total/NA	Solid	1633 Shake	
480-229745-6	RI-MW-3-DUP	Total/NA	Solid	1633 Shake	
480-229745-7	RI-MW-4	Total/NA	Solid	1633 Shake	
MB 410-651525/1-A	Method Blank	Total/NA	Solid	1633 Shake	
LCS 410-651525/2-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
LLCS 410-651525/3-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
480-229745-3 MS	RI-MW-1-MS	Total/NA	Solid	1633 Shake	
480-229745-3 MSD	RI-MW-1-MSD	Total/NA	Solid	1633 Shake	

Prep Batch: 651747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229745-8	RI-MW-4-DUP	Total/NA	Solid	1633 Shake	
480-229745-9	RI-MW-5	Total/NA	Solid	1633 Shake	
MB 410-651747/1-A	Method Blank	Total/NA	Solid	1633 Shake	
LCS 410-651747/2-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
LLCS 410-651747/3-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
480-229745-9 MS	RI-MW-5-MS	Total/NA	Solid	1633 Shake	
480-229745-9 MSD	RI-MW-5-MSD	Total/NA	Solid	1633 Shake	

Analysis Batch: 652026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229745-8	RI-MW-4-DUP	Total/NA	Solid	1633	651747
480-229745-9	RI-MW-5	Total/NA	Solid	1633	651747
MB 410-651747/1-A	Method Blank	Total/NA	Solid	1633	651747
LCS 410-651747/2-A	Lab Control Sample	Total/NA	Solid	1633	651747
LLCS 410-651747/3-A	Lab Control Sample	Total/NA	Solid	1633	651747
480-229745-9 MS	RI-MW-5-MS	Total/NA	Solid	1633	651747
480-229745-9 MSD	RI-MW-5-MSD	Total/NA	Solid	1633	651747

Analysis Batch: 652118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229745-1	RI-BH-9	Total/NA	Solid	1633	651525
480-229745-2	RI-BH-10	Total/NA	Solid	1633	651525
480-229745-3	RI-MW-1	Total/NA	Solid	1633	651525

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QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

LCMS (Continued)

Analysis Batch: 652118 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229745-4	RI-MW-2	Total/NA	Solid	1633	651525
480-229745-5	RI-MW-3	Total/NA	Solid	1633	651525
480-229745-6	RI-MW-3-DUP	Total/NA	Solid	1633	651525
480-229745-7	RI-MW-4	Total/NA	Solid	1633	651525
MB 410-651525/1-A	Method Blank	Total/NA	Solid	1633	651525
LCS 410-651525/2-A	Lab Control Sample	Total/NA	Solid	1633	651525
LLCS 410-651525/3-A	Lab Control Sample	Total/NA	Solid	1633	651525
480-229745-3 MS	RI-MW-1-MS	Total/NA	Solid	1633	651525
480-229745-3 MSD	RI-MW-1-MSD	Total/NA	Solid	1633	651525

Prep Batch: 652946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229745-8 - RE	RI-MW-4-DUP	Total/NA	Solid	1633 Shake	
480-229745-9 - RE	RI-MW-5	Total/NA	Solid	1633 Shake	
MB 410-652946/1-A	Method Blank	Total/NA	Solid	1633 Shake	
LCS 410-652946/2-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
LLCS 410-652946/3-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
480-229745-9 MS - RE	RI-MW-5-MS	Total/NA	Solid	1633 Shake	
480-229745-9 MSD - RE	RI-MW-5-MSD	Total/NA	Solid	1633 Shake	

Analysis Batch: 653393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229745-8 - RE	RI-MW-4-DUP	Total/NA	Solid	1633	652946
480-229745-9 - RE	RI-MW-5	Total/NA	Solid	1633	652946
MB 410-652946/1-A	Method Blank	Total/NA	Solid	1633	652946
LCS 410-652946/2-A	Lab Control Sample	Total/NA	Solid	1633	652946
LLCS 410-652946/3-A	Lab Control Sample	Total/NA	Solid	1633	652946
480-229745-9 MS - RE	RI-MW-5-MS	Total/NA	Solid	1633	652946
480-229745-9 MSD - RE	RI-MW-5-MSD	Total/NA	Solid	1633	652946

Metals

Prep Batch: 747394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229745-1	RI-BH-9	Total/NA	Solid	3050B	
480-229745-2	RI-BH-10	Total/NA	Solid	3050B	
480-229745-3	RI-MW-1	Total/NA	Solid	3050B	
480-229745-4	RI-MW-2	Total/NA	Solid	3050B	
480-229745-5	RI-MW-3	Total/NA	Solid	3050B	
480-229745-6	RI-MW-3-DUP	Total/NA	Solid	3050B	
480-229745-7	RI-MW-4	Total/NA	Solid	3050B	
480-229745-8	RI-MW-4-DUP	Total/NA	Solid	3050B	
480-229745-9	RI-MW-5	Total/NA	Solid	3050B	
MB 480-747394/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-747394/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-229745-3 MS	RI-MW-1-MS	Total/NA	Solid	3050B	
480-229745-3 MSD	RI-MW-1-MSD	Total/NA	Solid	3050B	
480-229745-9 MS	RI-MW-5-MS	Total/NA	Solid	3050B	
480-229745-9 MSD	RI-MW-5-MSD	Total/NA	Solid	3050B	

Eurofins Buffalo

QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Metals

Prep Batch: 747515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229745-1	RI-BH-9	Total/NA	Solid	7471B	
480-229745-2	RI-BH-10	Total/NA	Solid	7471B	
480-229745-3	RI-MW-1	Total/NA	Solid	7471B	
480-229745-4	RI-MW-2	Total/NA	Solid	7471B	
MB 480-747515/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-747515/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	
480-229745-3 MS	RI-MW-1-MS	Total/NA	Solid	7471B	
480-229745-3 MSD	RI-MW-1-MSD	Total/NA	Solid	7471B	

Prep Batch: 747527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229745-5	RI-MW-3	Total/NA	Solid	7471B	
480-229745-6	RI-MW-3-DUP	Total/NA	Solid	7471B	
480-229745-7	RI-MW-4	Total/NA	Solid	7471B	
480-229745-8	RI-MW-4-DUP	Total/NA	Solid	7471B	
480-229745-9	RI-MW-5	Total/NA	Solid	7471B	
MB 480-747527/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-747527/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	
480-229745-9 MS	RI-MW-5-MS	Total/NA	Solid	7471B	
480-229745-9 MSD	RI-MW-5-MSD	Total/NA	Solid	7471B	

Analysis Batch: 747573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229745-1	RI-BH-9	Total/NA	Solid	7471B	747515
480-229745-2	RI-BH-10	Total/NA	Solid	7471B	747515
480-229745-3	RI-MW-1	Total/NA	Solid	7471B	747515
480-229745-4	RI-MW-2	Total/NA	Solid	7471B	747515
480-229745-5	RI-MW-3	Total/NA	Solid	7471B	747527
480-229745-6	RI-MW-3-DUP	Total/NA	Solid	7471B	747527
480-229745-7	RI-MW-4	Total/NA	Solid	7471B	747527
480-229745-8	RI-MW-4-DUP	Total/NA	Solid	7471B	747527
480-229745-9	RI-MW-5	Total/NA	Solid	7471B	747527
MB 480-747515/1-A	Method Blank	Total/NA	Solid	7471B	747515
MB 480-747527/1-A	Method Blank	Total/NA	Solid	7471B	747527
LCSSRM 480-747515/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	747515
LCSSRM 480-747527/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	747527
480-229745-3 MS	RI-MW-1-MS	Total/NA	Solid	7471B	747515
480-229745-3 MSD	RI-MW-1-MSD	Total/NA	Solid	7471B	747515
480-229745-9 MS	RI-MW-5-MS	Total/NA	Solid	7471B	747527
480-229745-9 MSD	RI-MW-5-MSD	Total/NA	Solid	7471B	747527

Analysis Batch: 747639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229745-1	RI-BH-9	Total/NA	Solid	6010D	747394
480-229745-2	RI-BH-10	Total/NA	Solid	6010D	747394
480-229745-3	RI-MW-1	Total/NA	Solid	6010D	747394
480-229745-4	RI-MW-2	Total/NA	Solid	6010D	747394
480-229745-5	RI-MW-3	Total/NA	Solid	6010D	747394
480-229745-6	RI-MW-3-DUP	Total/NA	Solid	6010D	747394
480-229745-7	RI-MW-4	Total/NA	Solid	6010D	747394
480-229745-8	RI-MW-4-DUP	Total/NA	Solid	6010D	747394

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QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Metals (Continued)

Analysis Batch: 747639 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229745-9	RI-MW-5	Total/NA	Solid	6010D	747394
MB 480-747394/1-A	Method Blank	Total/NA	Solid	6010D	747394
LCSSRM 480-747394/2-A	Lab Control Sample	Total/NA	Solid	6010D	747394
480-229745-3 MS	RI-MW-1-MS	Total/NA	Solid	6010D	747394
480-229745-3 MSD	RI-MW-1-MSD	Total/NA	Solid	6010D	747394
480-229745-9 MS	RI-MW-5-MS	Total/NA	Solid	6010D	747394
480-229745-9 MSD	RI-MW-5-MSD	Total/NA	Solid	6010D	747394

Analysis Batch: 747956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229745-1	RI-BH-9	Total/NA	Solid	6010D	747394
480-229745-2	RI-BH-10	Total/NA	Solid	6010D	747394
480-229745-3	RI-MW-1	Total/NA	Solid	6010D	747394
480-229745-4	RI-MW-2	Total/NA	Solid	6010D	747394
480-229745-5	RI-MW-3	Total/NA	Solid	6010D	747394
480-229745-6	RI-MW-3-DUP	Total/NA	Solid	6010D	747394
480-229745-7	RI-MW-4	Total/NA	Solid	6010D	747394
480-229745-8	RI-MW-4-DUP	Total/NA	Solid	6010D	747394
480-229745-9	RI-MW-5	Total/NA	Solid	6010D	747394
MB 480-747394/1-A	Method Blank	Total/NA	Solid	6010D	747394
LCSSRM 480-747394/2-A	Lab Control Sample	Total/NA	Solid	6010D	747394
480-229745-3 MS	RI-MW-1-MS	Total/NA	Solid	6010D	747394
480-229745-3 MSD	RI-MW-1-MSD	Total/NA	Solid	6010D	747394
480-229745-9 MS	RI-MW-5-MS	Total/NA	Solid	6010D	747394
480-229745-9 MSD	RI-MW-5-MSD	Total/NA	Solid	6010D	747394

General Chemistry

Analysis Batch: 747418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229745-1	RI-BH-9	Total/NA	Solid	Moisture	
480-229745-2	RI-BH-10	Total/NA	Solid	Moisture	
480-229745-3	RI-MW-1	Total/NA	Solid	Moisture	
480-229745-4	RI-MW-2	Total/NA	Solid	Moisture	
480-229745-5	RI-MW-3	Total/NA	Solid	Moisture	
480-229745-6	RI-MW-3-DUP	Total/NA	Solid	Moisture	
480-229745-7	RI-MW-4	Total/NA	Solid	Moisture	
480-229745-8	RI-MW-4-DUP	Total/NA	Solid	Moisture	
480-229745-9	RI-MW-5	Total/NA	Solid	Moisture	
480-229745-3 MS	RI-MW-1-MS	Total/NA	Solid	Moisture	
480-229745-3 MSD	RI-MW-1-MSD	Total/NA	Solid	Moisture	
480-229745-9 MS	RI-MW-5-MS	Total/NA	Solid	Moisture	
480-229745-9 MSD	RI-MW-5-MSD	Total/NA	Solid	Moisture	

Prep Batch: 747917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229745-1	RI-BH-9	Total/NA	Solid	9012B	
480-229745-2	RI-BH-10	Total/NA	Solid	9012B	
480-229745-3	RI-MW-1	Total/NA	Solid	9012B	
480-229745-4	RI-MW-2	Total/NA	Solid	9012B	
480-229745-5	RI-MW-3	Total/NA	Solid	9012B	

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QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

General Chemistry (Continued)

Prep Batch: 747917 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229745-6	RI-MW-3-DUP	Total/NA	Solid	9012B	
480-229745-7	RI-MW-4	Total/NA	Solid	9012B	
480-229745-8	RI-MW-4-DUP	Total/NA	Solid	9012B	
480-229745-9	RI-MW-5	Total/NA	Solid	9012B	
MB 480-747917/1-A	Method Blank	Total/NA	Solid	9012B	
LCS 480-747917/3-A	Lab Control Sample	Total/NA	Solid	9012B	
LCS 480-747917/4-A	Lab Control Sample	Total/NA	Solid	9012B	
LCSSRM 480-747917/2-A	Lab Control Sample	Total/NA	Solid	9012B	
480-229745-3 MS	RI-MW-1-MS	Total/NA	Solid	9012B	
480-229745-3 MSD	RI-MW-1-MSD	Total/NA	Solid	9012B	
480-229745-9 MS	RI-MW-5-MS	Total/NA	Solid	9012B	
480-229745-9 MSD	RI-MW-5-MSD	Total/NA	Solid	9012B	

Analysis Batch: 747988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229745-1	RI-BH-9	Total/NA	Solid	9012B	747917
480-229745-2	RI-BH-10	Total/NA	Solid	9012B	747917
480-229745-3	RI-MW-1	Total/NA	Solid	9012B	747917
480-229745-4	RI-MW-2	Total/NA	Solid	9012B	747917
480-229745-5	RI-MW-3	Total/NA	Solid	9012B	747917
480-229745-6	RI-MW-3-DUP	Total/NA	Solid	9012B	747917
480-229745-7	RI-MW-4	Total/NA	Solid	9012B	747917
480-229745-8	RI-MW-4-DUP	Total/NA	Solid	9012B	747917
480-229745-9	RI-MW-5	Total/NA	Solid	9012B	747917
MB 480-747917/1-A	Method Blank	Total/NA	Solid	9012B	747917
LCS 480-747917/3-A	Lab Control Sample	Total/NA	Solid	9012B	747917
LCS 480-747917/4-A	Lab Control Sample	Total/NA	Solid	9012B	747917
LCSSRM 480-747917/2-A	Lab Control Sample	Total/NA	Solid	9012B	747917
480-229745-3 MS	RI-MW-1-MS	Total/NA	Solid	9012B	747917
480-229745-3 MSD	RI-MW-1-MSD	Total/NA	Solid	9012B	747917
480-229745-9 MS	RI-MW-5-MS	Total/NA	Solid	9012B	747917
480-229745-9 MSD	RI-MW-5-MSD	Total/NA	Solid	9012B	747917

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-BH-9

Lab Sample ID: 480-229745-1

Date Collected: 05/28/25 08:00

Matrix: Solid

Date Received: 05/28/25 17:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	747418	JMM	EET BUF	05/29/25 15:39

Client Sample ID: RI-BH-9

Lab Sample ID: 480-229745-1

Date Collected: 05/28/25 08:00

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 80.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			747439	CDC	EET BUF	05/29/25 18:02
Total/NA	Analysis	8260C		1	747444	LCH	EET BUF	05/29/25 22:16
Total/NA	Prep	3546			747407	LSC	EET BUF	05/29/25 13:56
Total/NA	Analysis	8270D		1	747473	JMM	EET BUF	05/30/25 19:19
Total/NA	Prep	3546			747547	LSC	EET BUF	05/30/25 13:55
Total/NA	Analysis	8081B		5	747713	JLS	EET BUF	06/03/25 09:39
Total/NA	Prep	3550C			747543	LSC	EET BUF	05/30/25 13:30
Total/NA	Analysis	8082A		1	747619	H9RU	EET BUF	06/02/25 14:19
Total/NA	Prep	1633 Shake			651525	URGB	ELLE	06/02/25 09:13
Total/NA	Analysis	1633		1	652118	QY4X	ELLE	06/03/25 13:39
Total/NA	Prep	3050B			747394	EMO	EET BUF	05/29/25 15:23
Total/NA	Analysis	6010D		1	747639	BMB	EET BUF	05/30/25 21:24
Total/NA	Prep	3050B			747394	EMO	EET BUF	05/29/25 15:23
Total/NA	Analysis	6010D		1	747956	BMB	EET BUF	06/04/25 18:28
Total/NA	Prep	7471B			747515	ESB	EET BUF	05/30/25 13:38
Total/NA	Analysis	7471B		1	747573	ESB	EET BUF	05/30/25 15:38
Total/NA	Prep	9012B			747917	AM	EET BUF	06/04/25 12:18
Total/NA	Analysis	9012B		1	747988	AM	EET BUF	06/04/25 16:22

Client Sample ID: RI-BH-10

Lab Sample ID: 480-229745-2

Date Collected: 05/28/25 08:15

Matrix: Solid

Date Received: 05/28/25 17:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	747418	JMM	EET BUF	05/29/25 15:39

Client Sample ID: RI-BH-10

Lab Sample ID: 480-229745-2

Date Collected: 05/28/25 08:15

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 70.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			747439	CDC	EET BUF	05/29/25 18:02
Total/NA	Analysis	8260C		1	747444	LCH	EET BUF	05/29/25 22:40
Total/NA	Prep	3546			747407	LSC	EET BUF	05/29/25 13:56
Total/NA	Analysis	8270D		1	747473	JMM	EET BUF	05/30/25 19:46
Total/NA	Prep	3546			747547	LSC	EET BUF	05/30/25 13:55
Total/NA	Analysis	8081B		1	747713	JLS	EET BUF	06/03/25 09:59

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Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-BH-10

Lab Sample ID: 480-229745-2

Date Collected: 05/28/25 08:15

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 70.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			747543	LSC	EET BUF	05/30/25 13:30
Total/NA	Analysis	8082A		1	747619	H9RU	EET BUF	06/02/25 14:38
Total/NA	Prep	1633 Shake			651525	URGB	ELLE	06/02/25 09:13
Total/NA	Analysis	1633		1	652118	QY4X	ELLE	06/03/25 13:53
Total/NA	Prep	3050B			747394	EMO	EET BUF	05/29/25 15:23
Total/NA	Analysis	6010D		1	747639	BMB	EET BUF	05/30/25 21:32
Total/NA	Prep	3050B			747394	EMO	EET BUF	05/29/25 15:23
Total/NA	Analysis	6010D		1	747956	BMB	EET BUF	06/04/25 18:30
Total/NA	Prep	7471B			747515	ESB	EET BUF	05/30/25 13:38
Total/NA	Analysis	7471B		1	747573	ESB	EET BUF	05/30/25 15:39
Total/NA	Prep	9012B			747917	AM	EET BUF	06/04/25 12:18
Total/NA	Analysis	9012B		1	747988	AM	EET BUF	06/04/25 16:22

Client Sample ID: RI-MW-1

Lab Sample ID: 480-229745-3

Date Collected: 05/28/25 08:30

Matrix: Solid

Date Received: 05/28/25 17:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	747418	JMM	EET BUF	05/29/25 15:39

Client Sample ID: RI-MW-1

Lab Sample ID: 480-229745-3

Date Collected: 05/28/25 08:30

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			747608	CDC	EET BUF	06/01/25 18:04
Total/NA	Analysis	8260C		1	747613	CDC	EET BUF	06/02/25 00:42
Total/NA	Prep	3546			747407	LSC	EET BUF	05/29/25 13:56
Total/NA	Analysis	8270D		1	747473	JMM	EET BUF	05/30/25 15:30
Total/NA	Prep	3546			747547	LSC	EET BUF	05/30/25 13:55
Total/NA	Analysis	8081B		20	747625	JLS	EET BUF	06/02/25 13:03
Total/NA	Prep	3550C			747543	LSC	EET BUF	05/30/25 13:30
Total/NA	Analysis	8082A		1	747619	H9RU	EET BUF	06/02/25 11:14
Total/NA	Prep	1633 Shake			651525	URGB	ELLE	06/02/25 09:13
Total/NA	Analysis	1633		1	652118	QY4X	ELLE	06/03/25 14:06
Total/NA	Prep	3050B			747394	EMO	EET BUF	05/29/25 15:23
Total/NA	Analysis	6010D		1	747639	BMB	EET BUF	05/30/25 21:34
Total/NA	Prep	3050B			747394	EMO	EET BUF	05/29/25 15:23
Total/NA	Analysis	6010D		1	747956	BMB	EET BUF	06/04/25 18:31
Total/NA	Prep	7471B			747515	ESB	EET BUF	05/30/25 13:38
Total/NA	Analysis	7471B		1	747573	ESB	EET BUF	05/30/25 15:43
Total/NA	Prep	9012B			747917	AM	EET BUF	06/04/25 12:18
Total/NA	Analysis	9012B		1	747988	AM	EET BUF	06/04/25 16:14

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Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-2

Lab Sample ID: 480-229745-4

Date Collected: 05/28/25 09:15

Matrix: Solid

Date Received: 05/28/25 17:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	747418	JMM	EET BUF	05/29/25 15:39

Client Sample ID: RI-MW-2

Lab Sample ID: 480-229745-4

Date Collected: 05/28/25 09:15

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			747439	CDC	EET BUF	05/29/25 18:02
Total/NA	Analysis	8260C		1	747444	LCH	EET BUF	05/29/25 23:27
Total/NA	Prep	3546			747407	LSC	EET BUF	05/29/25 13:56
Total/NA	Analysis	8270D		1	747473	JMM	EET BUF	05/30/25 20:22
Total/NA	Prep	3546			747547	LSC	EET BUF	05/30/25 13:55
Total/NA	Analysis	8081B		1	747625	JLS	EET BUF	06/02/25 14:21
Total/NA	Prep	3550C			747543	LSC	EET BUF	05/30/25 13:30
Total/NA	Analysis	8082A		1	747619	H9RU	EET BUF	06/02/25 18:01
Total/NA	Prep	1633 Shake			651525	URGB	ELLE	06/02/25 09:13
Total/NA	Analysis	1633		1	652118	QY4X	ELLE	06/03/25 14:47
Total/NA	Prep	3050B			747394	EMO	EET BUF	05/29/25 15:23
Total/NA	Analysis	6010D		1	747639	BMB	EET BUF	05/30/25 21:43
Total/NA	Prep	3050B			747394	EMO	EET BUF	05/29/25 15:23
Total/NA	Analysis	6010D		1	747956	BMB	EET BUF	06/04/25 18:53
Total/NA	Prep	7471B			747515	ESB	EET BUF	05/30/25 13:38
Total/NA	Analysis	7471B		1	747573	ESB	EET BUF	05/30/25 15:16
Total/NA	Prep	9012B			747917	AM	EET BUF	06/04/25 12:18
Total/NA	Analysis	9012B		1	747988	AM	EET BUF	06/04/25 16:25

Client Sample ID: RI-MW-3

Lab Sample ID: 480-229745-5

Date Collected: 05/28/25 09:30

Matrix: Solid

Date Received: 05/28/25 17:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	747418	JMM	EET BUF	05/29/25 15:39

Client Sample ID: RI-MW-3

Lab Sample ID: 480-229745-5

Date Collected: 05/28/25 09:30

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 92.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			747439	CDC	EET BUF	05/29/25 18:02
Total/NA	Analysis	8260C		1	747444	LCH	EET BUF	05/29/25 23:51
Total/NA	Prep	3546			747407	LSC	EET BUF	05/29/25 13:56
Total/NA	Analysis	8270D		1	747473	JMM	EET BUF	05/30/25 21:01
Total/NA	Prep	3546			747547	LSC	EET BUF	05/30/25 13:55
Total/NA	Analysis	8081B		1	747625	JLS	EET BUF	06/02/25 14:41

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Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-3

Lab Sample ID: 480-229745-5

Date Collected: 05/28/25 09:30

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 92.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			747543	LSC	EET BUF	05/30/25 13:30
Total/NA	Analysis	8082A		1	747619	H9RU	EET BUF	06/02/25 15:52
Total/NA	Prep	1633 Shake			651525	URGB	ELLE	06/02/25 09:13
Total/NA	Analysis	1633		1	652118	QY4X	ELLE	06/03/25 15:01
Total/NA	Prep	3050B			747394	EMO	EET BUF	05/29/25 15:23
Total/NA	Analysis	6010D		1	747639	BMB	EET BUF	05/30/25 21:45
Total/NA	Prep	3050B			747394	EMO	EET BUF	05/29/25 15:23
Total/NA	Analysis	6010D		1	747956	BMB	EET BUF	06/04/25 18:54
Total/NA	Prep	7471B			747527	ESB	EET BUF	05/30/25 13:38
Total/NA	Analysis	7471B		1	747573	ESB	EET BUF	05/30/25 15:51
Total/NA	Prep	9012B			747917	AM	EET BUF	06/04/25 12:18
Total/NA	Analysis	9012B		1	747988	AM	EET BUF	06/04/25 16:25

Client Sample ID: RI-MW-3-DUP

Lab Sample ID: 480-229745-6

Date Collected: 05/28/25 09:45

Matrix: Solid

Date Received: 05/28/25 17:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	747418	JMM	EET BUF	05/29/25 15:39

Client Sample ID: RI-MW-3-DUP

Lab Sample ID: 480-229745-6

Date Collected: 05/28/25 09:45

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 93.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			747439	CDC	EET BUF	05/29/25 18:02
Total/NA	Analysis	8260C		1	747444	LCH	EET BUF	05/30/25 00:14
Total/NA	Prep	3546			747407	LSC	EET BUF	05/29/25 13:56
Total/NA	Analysis	8270D		1	747473	JMM	EET BUF	05/30/25 21:29
Total/NA	Prep	3546			747547	LSC	EET BUF	05/30/25 13:55
Total/NA	Analysis	8081B		1	747625	JLS	EET BUF	06/02/25 15:00
Total/NA	Prep	3550C			747543	LSC	EET BUF	05/30/25 13:30
Total/NA	Analysis	8082A		1	747619	H9RU	EET BUF	06/02/25 16:10
Total/NA	Prep	1633 Shake			651525	URGB	ELLE	06/02/25 09:13
Total/NA	Analysis	1633		1	652118	QY4X	ELLE	06/03/25 15:14
Total/NA	Prep	3050B			747394	EMO	EET BUF	05/29/25 15:23
Total/NA	Analysis	6010D		1	747639	BMB	EET BUF	05/30/25 21:47
Total/NA	Prep	3050B			747394	EMO	EET BUF	05/29/25 15:23
Total/NA	Analysis	6010D		1	747956	BMB	EET BUF	06/04/25 18:56
Total/NA	Prep	7471B			747527	ESB	EET BUF	05/30/25 13:38
Total/NA	Analysis	7471B		1	747573	ESB	EET BUF	05/30/25 15:53
Total/NA	Prep	9012B			747917	AM	EET BUF	06/04/25 12:18
Total/NA	Analysis	9012B		1	747988	AM	EET BUF	06/04/25 16:26

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Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-4

Lab Sample ID: 480-229745-7

Date Collected: 05/28/25 10:00

Matrix: Solid

Date Received: 05/28/25 17:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	747418	JMM	EET BUF	05/29/25 15:39

Client Sample ID: RI-MW-4

Lab Sample ID: 480-229745-7

Date Collected: 05/28/25 10:00

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			747439	CDC	EET BUF	05/29/25 18:02
Total/NA	Analysis	8260C		1	747444	LCH	EET BUF	05/30/25 00:37
Total/NA	Prep	3546			747407	LSC	EET BUF	05/29/25 13:56
Total/NA	Analysis	8270D		1	747473	JMM	EET BUF	05/30/25 21:53
Total/NA	Prep	3546			747547	LSC	EET BUF	05/30/25 13:55
Total/NA	Analysis	8081B		1	747625	JLS	EET BUF	06/02/25 15:20
Total/NA	Prep	3550C			747543	LSC	EET BUF	05/30/25 13:30
Total/NA	Analysis	8082A		1	747619	H9RU	EET BUF	06/02/25 16:29
Total/NA	Prep	1633 Shake			651525	URGB	ELLE	06/02/25 09:13
Total/NA	Analysis	1633		1	652118	QY4X	ELLE	06/03/25 11:37
Total/NA	Prep	3050B			747394	EMO	EET BUF	05/29/25 15:23
Total/NA	Analysis	6010D		1	747639	BMB	EET BUF	05/30/25 21:55
Total/NA	Prep	3050B			747394	EMO	EET BUF	05/29/25 15:23
Total/NA	Analysis	6010D		1	747956	BMB	EET BUF	06/04/25 18:58
Total/NA	Prep	7471B			747527	ESB	EET BUF	05/30/25 13:38
Total/NA	Analysis	7471B		1	747573	ESB	EET BUF	05/30/25 15:54
Total/NA	Prep	9012B			747917	AM	EET BUF	06/04/25 12:18
Total/NA	Analysis	9012B		1	747988	AM	EET BUF	06/04/25 16:26

Client Sample ID: RI-MW-4-DUP

Lab Sample ID: 480-229745-8

Date Collected: 05/28/25 10:15

Matrix: Solid

Date Received: 05/28/25 17:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	747418	JMM	EET BUF	05/29/25 15:39

Client Sample ID: RI-MW-4-DUP

Lab Sample ID: 480-229745-8

Date Collected: 05/28/25 10:15

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			747439	CDC	EET BUF	05/29/25 18:02
Total/NA	Analysis	8260C		1	747444	LCH	EET BUF	05/30/25 01:01
Total/NA	Prep	3546			747407	LSC	EET BUF	05/29/25 13:56
Total/NA	Analysis	8270D		1	747473	JMM	EET BUF	05/30/25 22:43
Total/NA	Prep	3546			747547	LSC	EET BUF	05/30/25 13:55
Total/NA	Analysis	8081B		5	747625	JLS	EET BUF	06/02/25 15:39

Eurofins Buffalo

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-4-DUP

Lab Sample ID: 480-229745-8

Date Collected: 05/28/25 10:15

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			747543	LSC	EET BUF	05/30/25 13:30
Total/NA	Analysis	8082A		1	747619	H9RU	EET BUF	06/02/25 16:47
Total/NA	Prep	1633 Shake			651747	D5RZ	ELLE	06/02/25 14:18
Total/NA	Analysis	1633		1	652026	P7EB	ELLE	06/03/25 18:55
Total/NA	Prep	1633 Shake	RE		652946	M7AT	ELLE	06/04/25 14:32
Total/NA	Analysis	1633	RE	1	653393	RPU6	ELLE	06/05/25 13:38
Total/NA	Prep	3050B			747394	EMO	EET BUF	05/29/25 15:23
Total/NA	Analysis	6010D		1	747639	BMB	EET BUF	05/30/25 21:57
Total/NA	Prep	3050B			747394	EMO	EET BUF	05/29/25 15:23
Total/NA	Analysis	6010D		1	747956	BMB	EET BUF	06/04/25 19:00
Total/NA	Prep	7471B			747527	ESB	EET BUF	05/30/25 13:38
Total/NA	Analysis	7471B		1	747573	ESB	EET BUF	05/30/25 15:55
Total/NA	Prep	9012B			747917	AM	EET BUF	06/04/25 12:18
Total/NA	Analysis	9012B		1	747988	AM	EET BUF	06/04/25 16:26

Client Sample ID: RI-MW-5

Lab Sample ID: 480-229745-9

Date Collected: 05/28/25 10:30

Matrix: Solid

Date Received: 05/28/25 17:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	747418	JMM	EET BUF	05/29/25 15:39

Client Sample ID: RI-MW-5

Lab Sample ID: 480-229745-9

Date Collected: 05/28/25 10:30

Matrix: Solid

Date Received: 05/28/25 17:18

Percent Solids: 89.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			747439	CDC	EET BUF	05/29/25 18:02
Total/NA	Analysis	8260C		1	747444	LCH	EET BUF	05/30/25 01:24
Total/NA	Prep	3546			747407	LSC	EET BUF	05/29/25 13:56
Total/NA	Analysis	8270D		1	747473	JMM	EET BUF	05/30/25 15:56
Total/NA	Prep	3546			747547	LSC	EET BUF	05/30/25 13:55
Total/NA	Analysis	8081B		1	747625	JLS	EET BUF	06/02/25 13:23
Total/NA	Prep	3550C			747543	LSC	EET BUF	05/30/25 13:30
Total/NA	Analysis	8082A		1	747619	H9RU	EET BUF	06/02/25 11:33
Total/NA	Prep	1633 Shake			651747	D5RZ	ELLE	06/02/25 14:18
Total/NA	Analysis	1633		1	652026	P7EB	ELLE	06/03/25 19:09
Total/NA	Prep	1633 Shake	RE		652946	M7AT	ELLE	06/04/25 14:32
Total/NA	Analysis	1633	RE	1	653393	RPU6	ELLE	06/05/25 13:52
Total/NA	Prep	3050B			747394	EMO	EET BUF	05/29/25 15:23
Total/NA	Analysis	6010D		1	747639	BMB	EET BUF	05/30/25 21:59
Total/NA	Prep	3050B			747394	EMO	EET BUF	05/29/25 15:23
Total/NA	Analysis	6010D		1	747956	BMB	EET BUF	06/04/25 19:02
Total/NA	Prep	7471B			747527	ESB	EET BUF	05/30/25 13:38
Total/NA	Analysis	7471B		1	747573	ESB	EET BUF	05/30/25 16:00

Eurofins Buffalo

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Client Sample ID: RI-MW-5
Date Collected: 05/28/25 10:30
Date Received: 05/28/25 17:18

Lab Sample ID: 480-229745-9
Matrix: Solid
Percent Solids: 89.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	9012B			747917	AM	EET BUF	06/04/25 12:18
Total/NA	Analysis	9012B		1	747988	AM	EET BUF	06/04/25 16:29

Laboratory References:
EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

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Accreditation/Certification Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	06-04-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
1633	1633 Shake	Solid	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)
1633	1633 Shake	Solid	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)
1633	1633 Shake	Solid	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)
1633	1633 Shake	Solid	3-Perfluoroheptylpropanoic acid (7:3 FTCA)
1633	1633 Shake	Solid	3-Perfluoropentylpropanoic acid (5:3 FTCA)
1633	1633 Shake	Solid	3-Perfluoropropylpropanoic acid (3:3 FTCA)
1633	1633 Shake	Solid	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)
1633	1633 Shake	Solid	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)
1633	1633 Shake	Solid	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)
1633	1633 Shake	Solid	N-ethylperfluorooctane sulfonamide (NEtFOSA)
1633	1633 Shake	Solid	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)
1633	1633 Shake	Solid	N-methylperfluorooctane sulfonamide (NMeFOSA)
1633	1633 Shake	Solid	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)
1633	1633 Shake	Solid	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)
1633	1633 Shake	Solid	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)
1633	1633 Shake	Solid	Perfluoro-3-methoxypropanoic acid (PFMPA)
1633	1633 Shake	Solid	Perfluoro-4-methoxybutanoic acid (PFMBA)
1633	1633 Shake	Solid	Perfluorobutanesulfonic acid (PFBS)
1633	1633 Shake	Solid	Perfluorodecanesulfonic acid (PFDS)
1633	1633 Shake	Solid	Perfluorododecanesulfonic acid (PFDoS)
1633	1633 Shake	Solid	Perfluoroheptanesulfonic acid (PFHpS)

Eurofins Buffalo

Accreditation/Certification Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
1633	1633 Shake	Solid	Perfluorohexanesulfonic acid (PFHxS)
1633	1633 Shake	Solid	Perfluorononanesulfonic acid (PFNS)
1633	1633 Shake	Solid	Perfluorooctanesulfonamide (PFOSA)
1633	1633 Shake	Solid	Perfluoropentanesulfonic acid (PFPeS)

Method Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET BUF
8081B	Organochlorine Pesticides (GC)	SW846	EET BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET BUF
1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	ELLE
6010D	Metals (ICP)	SW846	EET BUF
7471B	Mercury (CVAA)	SW846	EET BUF
9012B	Cyanide, Total and/or Amenable	SW846	EET BUF
Moisture	Percent Moisture	EPA	EET BUF
1633 Shake	Shake Extraction with SPE	EPA	ELLE
3050B	Preparation, Metals	SW846	EET BUF
3546	Microwave Extraction	SW846	EET BUF
3550C	Ultrasonic Extraction	SW846	EET BUF
5035A_L	Closed System Purge and Trap	SW846	EET BUF
7471B	Preparation, Mercury	SW846	EET BUF
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229745-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-229745-1	RI-BH-9	Solid	05/28/25 08:00	05/28/25 17:18
480-229745-2	RI-BH-10	Solid	05/28/25 08:15	05/28/25 17:18
480-229745-3	RI-MW-1	Solid	05/28/25 08:30	05/28/25 17:18
480-229745-4	RI-MW-2	Solid	05/28/25 09:15	05/28/25 17:18
480-229745-5	RI-MW-3	Solid	05/28/25 09:30	05/28/25 17:18
480-229745-6	RI-MW-3-DUP	Solid	05/28/25 09:45	05/28/25 17:18
480-229745-7	RI-MW-4	Solid	05/28/25 10:00	05/28/25 17:18
480-229745-8	RI-MW-4-DUP	Solid	05/28/25 10:15	05/28/25 17:18
480-229745-9	RI-MW-5	Solid	05/28/25 10:30	05/28/25 17:18

[illegible]

[illegible]

Eurofins Buffalo

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler: N/A		Lab PM: Beninati, John		Camer Tracking No(s): N/A	
Client Contact: Shipping/Receiving		Phone: N/A		E-Mail: John.Beninati@et.eurofinsus.com		State of Origin: New York	
Company: Eurofins Lancaster Laboratories Environm				Accreditations Required (See note): NELAP - New York			
Address: 2425 New Holland Pike,		Due Date Requested: 6/3/2025		Analysis Requested			
City: Lancaster		TAT Requested (days): N/A					
State, Zip: PA, 17601		PO #: N/A		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 1633, Final/1633, Shake, 1g List of 40 based on EPA method			
Phone: 717-656-2300(Tel)		WO #: N/A					
Email: N/A		Project #: 48028798					
Project Name: 166 E 4th Street		SSOW#: N/A					
Site: N/A							
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/LR, BT=Tissue, A=Air)		
				Preservation Code:			
RI-BH-9 (480-229745-1)		5/28/25	08:00 Eastern	G	Solid	X	
RI-BH-10 (480-229745-2)		5/28/25	08:15 Eastern	G	Solid	X	
RI-MW-1 (480-229745-3)		5/28/25	08:30 Eastern	G	Solid	X	
RI-MW-1 (480-229745-3MS)		5/28/25	08:30 Eastern	G	Solid	X	
RI-MW-1 (480-229745-3MSD)		5/28/25	08:30 Eastern	G	Solid	X	
RI-MW-2 (480-229745-4)		5/28/25	09:15 Eastern	G	Solid	X	
RI-MW-3 (480-229745-5)		5/28/25	09:30 Eastern	G	Solid	X	
RI-MW-3-DUP (480-229745-6)		5/28/25	09:45 Eastern	G	Solid	X	
RI-MW-4 (480-229745-7)		5/28/25	10:00 Eastern	G	Solid	X	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other in status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins E							
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are)	
Unconfirmed						☐ Return To Client ☐ Disposal By Lab	
Deliverable Requested: I, II, III, IV, Other (specify)				Primary Deliverable Rank: 2		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:				Date:		Method of Shipment:	
Relinquished by: <i>VB</i>		Date/Time: 5-29-25 1600		Company:		Received by:	
Relinquished by:		Date/Time:		Company:		Received by:	
Relinquished by:		Date/Time:		Company:		Received by: <i>Shirley</i>	
Custody Seals Intact: ☒ Yes ☐ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 10.3-11.2			

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

[illegible]

Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are			
Unconfirmed				☐ Return To Client ☐ Disposal By Lab			
Deliverable Requested: I, II, III, IV, Other (specify)				Primary Deliverable Rank: 2			
Special Instructions/QC Requirements:							
Empty Kit Relinquished by:				Date:		Time:	
Relinquished by:				Date/Time:		Company:	
Relinquished by:				Date/Time:		Company:	
Relinquished by:				Date/Time:		Company:	
Custody Seals Intact:		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			
☒ Yes ☐ No		01-05-01-02		01.5-01.2			

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-229745-1

Login Number: 229745

List Source: Eurofins Buffalo

List Number: 1

Creator: Kolb, Chris M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Yes: Received same day of collection; chilling process has begun
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	be3
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-229745-1

Login Number: 229745

List Number: 2

Creator: Ballard, Megan

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Creation: 05/30/25 01:15 PM

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable, where thermal pres is required ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temp acceptable, where thermal pres is required ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace $> 6\text{mm}$ in diameter (none, if from WV)?	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Paul Staub
Brydges Engineering in Environment & Energy DPC
960 Busti Ave
Suite B-150
Buffalo, New York 14213

Generated 8/13/2025 10:59:19 PM

JOB DESCRIPTION

166 E 4th Street

JOB NUMBER

480-231655-1

Eurofins Buffalo

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Authorized for release by
John Beninati, Project Manager I
John.Beninati@et.eurofinsus.com
(716)504-9874

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Definitions/Glossary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-231655-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

Metals

Qualifier	Qualifier Description
^5-	Linear Range Check (LRC) is outside acceptance limits, low biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)

Definitions/Glossary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-231655-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Case Narrative

Client: Brydges Engineering in Environment & Energy DPC
Project: 166 E 4th Street

Job ID: 480-231655-1

Job ID: 480-231655-1

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Job Narrative 480-231655-1

Receipt

The samples were received on 8/7/2025 3:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.6° C.

GC/MS Semi VOA

Method 8270D: The following samples were diluted due to color, appearance, and viscosity: SS-1 (480-231655-1), SS-2 (480-231655-2) and SS-4 (480-231655-4). Elevated reporting limits (RL) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010D: The linear range check (LRC) standard recovery associated with 480-753990 is outside the acceptance criteria for the following analytes: Silver, Beryllium, Calcium, Iron, Manganese and Zinc. The concentration of these analyte(s) in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported.

Method 6010D: The linear range check (LRC) standard recovery associated with 480-753990 is outside the acceptance criteria for the following analytes: Silver, Beryllium, Calcium, and Zinc. The concentration of these analyte(s) in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported.

Method 6010D: The linear range check (LRC) standard recovery associated with 480-753990 is outside the acceptance criteria for the following analytes: Silver, Beryllium, and Zinc. The concentration of these analyte(s) in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported.

Method 6010D: The linear range check (LRC) standard recovery associated with 480-753990 is outside the acceptance criteria for the following analytes: Silver, Beryllium, Calcium, and Zinc. The concentration of these analyte(s) in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-231655-1

Client Sample ID: SS-1

Lab Sample ID: 480-231655-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	460	J	1800	330	ug/Kg	10	✱	8270D	Total/NA
Benzo[a]anthracene	2900		1800	250	ug/Kg	10	✱	8270D	Total/NA
Benzo[a]pyrene	3300		1800	310	ug/Kg	10	✱	8270D	Total/NA
Benzo[b]fluoranthene	4900		1800	240	ug/Kg	10	✱	8270D	Total/NA
Benzo[g,h,i]perylene	3100		1800	320	ug/Kg	10	✱	8270D	Total/NA
Benzo[k]fluoranthene	1700	J	1800	410	ug/Kg	10	✱	8270D	Total/NA
Carbazole	420	J	1800	360	ug/Kg	10	✱	8270D	Total/NA
Chrysene	3600		1800	440	ug/Kg	10	✱	8270D	Total/NA
Fluoranthene	7500		1800	330	ug/Kg	10	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	2400		1800	270	ug/Kg	10	✱	8270D	Total/NA
Phenanthrene	2700		1800	340	ug/Kg	10	✱	8270D	Total/NA
Pyrene	5700		1800	340	ug/Kg	10	✱	8270D	Total/NA
Aluminum	13600		10.7	9.2	mg/Kg	1	✱	6010D	Total/NA
Arsenic	12.0	F1	2.1	0.94	mg/Kg	1	✱	6010D	Total/NA
Barium	141	F1	0.54	0.15	mg/Kg	1	✱	6010D	Total/NA
Beryllium	0.83	^5-	0.21	0.043	mg/Kg	1	✱	6010D	Total/NA
Cadmium	0.42	F1	0.21	0.075	mg/Kg	1	✱	6010D	Total/NA
Calcium	9340	^5- F2 F1	53.5	28.9	mg/Kg	1	✱	6010D	Total/NA
Chromium	26.4		0.54	0.39	mg/Kg	1	✱	6010D	Total/NA
Cobalt	10.4		0.54	0.11	mg/Kg	1	✱	6010D	Total/NA
Copper	44.3	F1	1.1	0.61	mg/Kg	1	✱	6010D	Total/NA
Iron	26200		10.7	9.1	mg/Kg	1	✱	6010D	Total/NA
Lead	168	F1	1.1	0.49	mg/Kg	1	✱	6010D	Total/NA
Magnesium	4770	F1	21.4	9.1	mg/Kg	1	✱	6010D	Total/NA
Manganese	490	F2	1.1	0.30	mg/Kg	1	✱	6010D	Total/NA
Nickel	31.6		5.4	0.27	mg/Kg	1	✱	6010D	Total/NA
Potassium	2600		32.1	26.0	mg/Kg	1	✱	6010D	Total/NA
Selenium	1.1	J F1	4.3	0.86	mg/Kg	1	✱	6010D	Total/NA
Sodium	104	J F1	150	65.7	mg/Kg	1	✱	6010D	Total/NA
Vanadium	25.5		0.54	0.14	mg/Kg	1	✱	6010D	Total/NA
Zinc	156	^5- F1 B	2.1	1.1	mg/Kg	1	✱	6010D	Total/NA
Mercury	0.22		0.021	0.0048	mg/Kg	1	✱	7471B	Total/NA
Cyanide, Total	0.50	J	0.96	0.47	mg/Kg	1	✱	9012B	Total/NA

Client Sample ID: SS-2

Lab Sample ID: 480-231655-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	840	J	1900	320	ug/Kg	10	✱	8270D	Total/NA
Benzo[b]fluoranthene	1500	J	1900	250	ug/Kg	10	✱	8270D	Total/NA
Benzo[g,h,i]perylene	740	J	1900	330	ug/Kg	10	✱	8270D	Total/NA
Fluoranthene	1700	J	1900	340	ug/Kg	10	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	630	J	1900	280	ug/Kg	10	✱	8270D	Total/NA
Phenanthrene	580	J	1900	350	ug/Kg	10	✱	8270D	Total/NA
Pyrene	1300	J	1900	350	ug/Kg	10	✱	8270D	Total/NA
Aluminum	11300		10.7	9.2	mg/Kg	1	✱	6010D	Total/NA
Arsenic	17.2		2.1	0.94	mg/Kg	1	✱	6010D	Total/NA
Barium	98.8		0.53	0.15	mg/Kg	1	✱	6010D	Total/NA
Beryllium	0.70	^5-	0.21	0.043	mg/Kg	1	✱	6010D	Total/NA
Cadmium	0.34		0.21	0.075	mg/Kg	1	✱	6010D	Total/NA
Calcium	8170	^5-	53.5	28.9	mg/Kg	1	✱	6010D	Total/NA
Chromium	15.5		0.53	0.39	mg/Kg	1	✱	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-231655-1

Client Sample ID: SS-2 (Continued)

Lab Sample ID: 480-231655-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Cobalt	9.2		0.53	0.11	mg/Kg	1	✱		6010D	Total/NA
Copper	39.5		1.1	0.61	mg/Kg	1	✱		6010D	Total/NA
Iron	22600		10.7	9.1	mg/Kg	1	✱		6010D	Total/NA
Lead	72.4		1.1	0.49	mg/Kg	1	✱		6010D	Total/NA
Magnesium	4190		21.4	9.1	mg/Kg	1	✱		6010D	Total/NA
Manganese	448		1.1	0.30	mg/Kg	1	✱		6010D	Total/NA
Nickel	28.7		5.3	0.27	mg/Kg	1	✱		6010D	Total/NA
Potassium	1810		32.1	25.9	mg/Kg	1	✱		6010D	Total/NA
Selenium	0.94	J	4.3	0.86	mg/Kg	1	✱		6010D	Total/NA
Sodium	83.6	J	150	65.6	mg/Kg	1	✱		6010D	Total/NA
Vanadium	17.8		0.53	0.14	mg/Kg	1	✱		6010D	Total/NA
Zinc	132	^5- B	2.1	1.1	mg/Kg	1	✱		6010D	Total/NA
Mercury	0.16		0.023	0.0054	mg/Kg	1	✱		7471B	Total/NA
Cyanide, Total	4.6		1.0	0.48	mg/Kg	1	✱		9012B	Total/NA

Client Sample ID: SS-3

Lab Sample ID: 480-231655-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
2-Methylnaphthalene	55	J	170	27	ug/Kg	1	✱		8270D	Total/NA
Acenaphthylene	37	J	170	33	ug/Kg	1	✱		8270D	Total/NA
Anthracene	39	J	170	32	ug/Kg	1	✱		8270D	Total/NA
Benzo[a]anthracene	280		170	24	ug/Kg	1	✱		8270D	Total/NA
Benzo[a]pyrene	340		170	29	ug/Kg	1	✱		8270D	Total/NA
Benzo[b]fluoranthene	410		170	23	ug/Kg	1	✱		8270D	Total/NA
Benzo[g,h,i]perylene	330		170	30	ug/Kg	1	✱		8270D	Total/NA
Benzo[k]fluoranthene	330		170	39	ug/Kg	1	✱		8270D	Total/NA
Chrysene	390		170	42	ug/Kg	1	✱		8270D	Total/NA
Fluoranthene	630		170	32	ug/Kg	1	✱		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	250		170	26	ug/Kg	1	✱		8270D	Total/NA
Phenanthrene	190		170	32	ug/Kg	1	✱		8270D	Total/NA
Pyrene	510		170	33	ug/Kg	1	✱		8270D	Total/NA
Aluminum	9130		10.1	8.7	mg/Kg	1	✱		6010D	Total/NA
Arsenic	8.3		2.0	0.88	mg/Kg	1	✱		6010D	Total/NA
Barium	106		0.50	0.14	mg/Kg	1	✱		6010D	Total/NA
Beryllium	0.69	^5-	0.20	0.040	mg/Kg	1	✱		6010D	Total/NA
Cadmium	0.60		0.20	0.070	mg/Kg	1	✱		6010D	Total/NA
Calcium	108000		251	136	mg/Kg	5	✱		6010D	Total/NA
Chromium	24.2		0.50	0.36	mg/Kg	1	✱		6010D	Total/NA
Cobalt	6.5		0.50	0.10	mg/Kg	1	✱		6010D	Total/NA
Copper	109		1.0	0.57	mg/Kg	1	✱		6010D	Total/NA
Iron	20100		10.1	8.5	mg/Kg	1	✱		6010D	Total/NA
Lead	101		1.0	0.46	mg/Kg	1	✱		6010D	Total/NA
Magnesium	23800		20.1	8.5	mg/Kg	1	✱		6010D	Total/NA
Manganese	641		1.0	0.28	mg/Kg	1	✱		6010D	Total/NA
Nickel	21.3		5.0	0.25	mg/Kg	1	✱		6010D	Total/NA
Potassium	1720		30.2	24.4	mg/Kg	1	✱		6010D	Total/NA
Selenium	1.1	J	4.0	0.80	mg/Kg	1	✱		6010D	Total/NA
Sodium	163		141	61.6	mg/Kg	1	✱		6010D	Total/NA
Vanadium	19.9		0.50	0.13	mg/Kg	1	✱		6010D	Total/NA
Zinc	155	^5- B	2.0	1.0	mg/Kg	1	✱		6010D	Total/NA
Mercury	0.12		0.020	0.0046	mg/Kg	1	✱		7471B	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-231655-1

Client Sample ID: SS-3 (Continued)

Lab Sample ID: 480-231655-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	2.2		0.99	0.48	mg/Kg	1	✱	9012B	Total/NA

Client Sample ID: SS-4

Lab Sample ID: 480-231655-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	970		950	130	ug/Kg	5	✱	8270D	Total/NA
Benzo[a]pyrene	1100		950	160	ug/Kg	5	✱	8270D	Total/NA
Benzo[b]fluoranthene	1800		950	130	ug/Kg	5	✱	8270D	Total/NA
Benzo[g,h,i]perylene	920	J	950	170	ug/Kg	5	✱	8270D	Total/NA
Benzo[k]fluoranthene	590	J	950	210	ug/Kg	5	✱	8270D	Total/NA
Chrysene	1400		950	230	ug/Kg	5	✱	8270D	Total/NA
Fluoranthene	2500		950	170	ug/Kg	5	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	870	J	950	140	ug/Kg	5	✱	8270D	Total/NA
Phenanthrene	910	J	950	180	ug/Kg	5	✱	8270D	Total/NA
Pyrene	2100		950	180	ug/Kg	5	✱	8270D	Total/NA
Aluminum	14200		11.6	10.0	mg/Kg	1	✱	6010D	Total/NA
Arsenic	10.8		2.3	1.0	mg/Kg	1	✱	6010D	Total/NA
Barium	156		0.58	0.16	mg/Kg	1	✱	6010D	Total/NA
Beryllium	0.81	^5-	0.23	0.047	mg/Kg	1	✱	6010D	Total/NA
Cadmium	0.43		0.23	0.081	mg/Kg	1	✱	6010D	Total/NA
Calcium	6660	^5-	58.2	31.4	mg/Kg	1	✱	6010D	Total/NA
Chromium	28.2		0.58	0.42	mg/Kg	1	✱	6010D	Total/NA
Cobalt	12.4		0.58	0.12	mg/Kg	1	✱	6010D	Total/NA
Copper	39.2		1.2	0.66	mg/Kg	1	✱	6010D	Total/NA
Iron	25400		11.6	9.9	mg/Kg	1	✱	6010D	Total/NA
Lead	157		1.2	0.54	mg/Kg	1	✱	6010D	Total/NA
Magnesium	3800		23.3	9.9	mg/Kg	1	✱	6010D	Total/NA
Manganese	345		1.2	0.33	mg/Kg	1	✱	6010D	Total/NA
Nickel	36.7		5.8	0.29	mg/Kg	1	✱	6010D	Total/NA
Potassium	2740		34.9	28.2	mg/Kg	1	✱	6010D	Total/NA
Selenium	1.1	J	4.7	0.93	mg/Kg	1	✱	6010D	Total/NA
Sodium	118	J	163	71.3	mg/Kg	1	✱	6010D	Total/NA
Vanadium	26.2		0.58	0.15	mg/Kg	1	✱	6010D	Total/NA
Zinc	153	^5- B	2.3	1.2	mg/Kg	1	✱	6010D	Total/NA
Mercury	0.25		0.022	0.0050	mg/Kg	1	✱	7471B	Total/NA
Cyanide, Total	3.8	F1	1.1	0.53	mg/Kg	1	✱	9012B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-231655-1

Client Sample ID: SS-1

Lab Sample ID: 480-231655-1

Date Collected: 08/07/25 13:00

Matrix: Solid

Date Received: 08/07/25 15:00

Percent Solids: 91.6

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		1800	370	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
2,4,6-Trichlorophenol	ND		1800	280	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
2,4-Dichlorophenol	ND		1800	350	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
2,4-Dimethylphenol	ND		1800	380	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
2,4-Dinitrophenol	ND		18000	350	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
2,4-Dinitrotoluene	ND		1800	250	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
2,6-Dinitrotoluene	ND		1800	260	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
2-Chloronaphthalene	ND		1800	340	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
2-Chlorophenol	ND		1800	280	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
2-Methylnaphthalene	ND		1800	290	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
2-Methylphenol	ND		1800	290	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
2-Nitroaniline	ND		3500	310	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
2-Nitrophenol	ND		1800	210	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
3,3'-Dichlorobenzidine	ND		3500	530	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
3-Nitroaniline	ND		3500	260	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
4,6-Dinitro-2-methylphenol	ND		3500	400	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
4-Bromophenyl phenyl ether	ND		1800	310	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
4-Chloro-3-methylphenol	ND		1800	370	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
4-Chloroaniline	ND		1800	260	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
4-Chlorophenyl phenyl ether	ND		1800	380	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
4-Methylphenol	ND		3500	320	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
4-Nitroaniline	ND		3500	270	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
4-Nitrophenol	ND		3500	500	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
Acenaphthene	ND		1800	340	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
Acenaphthylene	ND		1800	350	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
Acetophenone	ND		1800	320	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
Anthracene	460 J		1800	330	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
Atrazine	ND		1800	610	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
Benzaldehyde	ND		1800	1400	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
Benzo[a]anthracene	2900		1800	250	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
Benzo[a]pyrene	3300		1800	310	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
Benzo[b]fluoranthene	4900		1800	240	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
Benzo[g,h,i]perylene	3100		1800	320	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
Benzo[k]fluoranthene	1700 J		1800	410	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
Biphenyl	ND		1800	340	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
bis (2-chloroisopropyl) ether	ND		1800	370	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
Bis(2-chloroethoxy)methane	ND		1800	350	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
Bis(2-chloroethyl)ether	ND		1800	340	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
Bis(2-ethylhexyl) phthalate	ND		1800	390	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
Butyl benzyl phthalate	ND		1800	330	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
Caprolactam	ND		1800	420	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
Carbazole	420 J		1800	360	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
Chrysene	3600		1800	440	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
Dibenz(a,h)anthracene	ND		1800	370	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
Dibenzofuran	ND		1800	320	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
Diethyl phthalate	ND		1800	320	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
Dimethyl phthalate	ND		1800	350	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
Di-n-butyl phthalate	ND		1800	410	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10
Di-n-octyl phthalate	ND		1800	350	ug/Kg	✱	08/08/25 13:44	08/11/25 15:46	10

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-231655-1

Client Sample ID: SS-1

Lab Sample ID: 480-231655-1

Date Collected: 08/07/25 13:00

Matrix: Solid

Date Received: 08/07/25 15:00

Percent Solids: 91.6

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	7500		1800	330	ug/Kg	☼	08/08/25 13:44	08/11/25 15:46	10
Fluorene	ND		1800	330	ug/Kg	☼	08/08/25 13:44	08/11/25 15:46	10
Hexachlorobenzene	ND		1800	350	ug/Kg	☼	08/08/25 13:44	08/11/25 15:46	10
Hexachlorobutadiene	ND		1800	270	ug/Kg	☼	08/08/25 13:44	08/11/25 15:46	10
Hexachlorocyclopentadiene	ND		3500	790	ug/Kg	☼	08/08/25 13:44	08/11/25 15:46	10
Hexachloroethane	ND		1800	330	ug/Kg	☼	08/08/25 13:44	08/11/25 15:46	10
Indeno[1,2,3-cd]pyrene	2400		1800	270	ug/Kg	☼	08/08/25 13:44	08/11/25 15:46	10
Isophorone	ND		1800	370	ug/Kg	☼	08/08/25 13:44	08/11/25 15:46	10
Naphthalene	ND		1800	300	ug/Kg	☼	08/08/25 13:44	08/11/25 15:46	10
Nitrobenzene	ND		1800	300	ug/Kg	☼	08/08/25 13:44	08/11/25 15:46	10
N-Nitrosodi-n-propylamine	ND		1800	410	ug/Kg	☼	08/08/25 13:44	08/11/25 15:46	10
N-Nitrosodiphenylamine	ND		1800	300	ug/Kg	☼	08/08/25 13:44	08/11/25 15:46	10
Pentachlorophenol	ND		3500	580	ug/Kg	☼	08/08/25 13:44	08/11/25 15:46	10
Phenanthrene	2700		1800	340	ug/Kg	☼	08/08/25 13:44	08/11/25 15:46	10
Phenol	ND		1800	330	ug/Kg	☼	08/08/25 13:44	08/11/25 15:46	10
Pyrene	5700		1800	340	ug/Kg	☼	08/08/25 13:44	08/11/25 15:46	10

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
14-Heptadecenal	4800	T J N	ug/Kg	☼	14.07	1000144-58-0	08/08/25 13:44	08/11/25 15:46	10
Cyclotetracosane	9400	T J N	ug/Kg	☼	14.23	297-03-0	08/08/25 13:44	08/11/25 15:46	10
Unknown	2900	T J	ug/Kg	☼	14.73	N/A	08/08/25 13:44	08/11/25 15:46	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	89		10 - 140	08/08/25 13:44	08/11/25 15:46	10
2-Fluorobiphenyl (Surr)	77		29 - 120	08/08/25 13:44	08/11/25 15:46	10
2-Fluorophenol (Surr)	70		18 - 120	08/08/25 13:44	08/11/25 15:46	10
Nitrobenzene-d5 (Surr)	79		22 - 120	08/08/25 13:44	08/11/25 15:46	10
Phenol-d5 (Surr)	61		23 - 120	08/08/25 13:44	08/11/25 15:46	10
p-Terphenyl-d14 (Surr)	77		28 - 124	08/08/25 13:44	08/11/25 15:46	10

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13600		10.7	9.2	mg/Kg	☼	08/11/25 09:53	08/11/25 21:00	1
Antimony	ND	F1	16.1	0.57	mg/Kg	☼	08/11/25 09:53	08/11/25 21:00	1
Arsenic	12.0	F1	2.1	0.94	mg/Kg	☼	08/11/25 09:53	08/12/25 11:49	1
Barium	141	F1	0.54	0.15	mg/Kg	☼	08/11/25 09:53	08/11/25 21:00	1
Beryllium	0.83	^5-	0.21	0.043	mg/Kg	☼	08/11/25 09:53	08/11/25 21:00	1
Cadmium	0.42	F1	0.21	0.075	mg/Kg	☼	08/11/25 09:53	08/11/25 21:00	1
Calcium	9340	^5- F2 F1	53.5	28.9	mg/Kg	☼	08/11/25 09:53	08/11/25 21:00	1
Chromium	26.4		0.54	0.39	mg/Kg	☼	08/11/25 09:53	08/11/25 21:00	1
Cobalt	10.4		0.54	0.11	mg/Kg	☼	08/11/25 09:53	08/11/25 21:00	1
Copper	44.3	F1	1.1	0.61	mg/Kg	☼	08/11/25 09:53	08/11/25 21:00	1
Iron	26200		10.7	9.1	mg/Kg	☼	08/11/25 09:53	08/12/25 11:49	1
Lead	168	F1	1.1	0.49	mg/Kg	☼	08/11/25 09:53	08/11/25 21:00	1
Magnesium	4770	F1	21.4	9.1	mg/Kg	☼	08/11/25 09:53	08/11/25 21:00	1
Manganese	490	F2	1.1	0.30	mg/Kg	☼	08/11/25 09:53	08/12/25 11:49	1
Nickel	31.6		5.4	0.27	mg/Kg	☼	08/11/25 09:53	08/11/25 21:00	1
Potassium	2600		32.1	26.0	mg/Kg	☼	08/11/25 09:53	08/11/25 21:00	1
Selenium	1.1	J F1	4.3	0.86	mg/Kg	☼	08/11/25 09:53	08/12/25 11:49	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-231655-1

Client Sample ID: SS-1

Lab Sample ID: 480-231655-1

Date Collected: 08/07/25 13:00

Matrix: Solid

Date Received: 08/07/25 15:00

Percent Solids: 91.6

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND	^5-	0.64	0.21	mg/Kg	☆	08/11/25 09:53	08/11/25 21:00	1
Sodium	104	J F1	150	65.7	mg/Kg	☆	08/11/25 09:53	08/11/25 21:00	1
Thallium	ND		6.4	0.81	mg/Kg	☆	08/11/25 09:53	08/11/25 21:00	1
Vanadium	25.5		0.54	0.14	mg/Kg	☆	08/11/25 09:53	08/11/25 21:00	1
Zinc	156	^5- F1 B	2.1	1.1	mg/Kg	☆	08/11/25 09:53	08/11/25 21:00	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.22		0.021	0.0048	mg/Kg	☆	08/11/25 09:57	08/11/25 12:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.50	J	0.96	0.47	mg/Kg	☆	08/12/25 12:50	08/12/25 18:46	1

Client Sample ID: SS-2

Lab Sample ID: 480-231655-2

Date Collected: 08/07/25 13:15

Matrix: Solid

Date Received: 08/07/25 15:00

Percent Solids: 89.9

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		1900	380	ug/Kg	☆	08/08/25 13:44	08/11/25 16:11	10
2,4,6-Trichlorophenol	ND		1900	280	ug/Kg	☆	08/08/25 13:44	08/11/25 16:11	10
2,4-Dichlorophenol	ND		1900	370	ug/Kg	☆	08/08/25 13:44	08/11/25 16:11	10
2,4-Dimethylphenol	ND		1900	390	ug/Kg	☆	08/08/25 13:44	08/11/25 16:11	10
2,4-Dinitrophenol	ND		18000	360	ug/Kg	☆	08/08/25 13:44	08/11/25 16:11	10
2,4-Dinitrotoluene	ND		1900	250	ug/Kg	☆	08/08/25 13:44	08/11/25 16:11	10
2,6-Dinitrotoluene	ND		1900	270	ug/Kg	☆	08/08/25 13:44	08/11/25 16:11	10
2-Chloronaphthalene	ND		1900	350	ug/Kg	☆	08/08/25 13:44	08/11/25 16:11	10
2-Chlorophenol	ND		1900	290	ug/Kg	☆	08/08/25 13:44	08/11/25 16:11	10
2-Methylnaphthalene	ND		1900	290	ug/Kg	☆	08/08/25 13:44	08/11/25 16:11	10
2-Methylphenol	ND		1900	300	ug/Kg	☆	08/08/25 13:44	08/11/25 16:11	10
2-Nitroaniline	ND		3600	320	ug/Kg	☆	08/08/25 13:44	08/11/25 16:11	10
2-Nitrophenol	ND		1900	210	ug/Kg	☆	08/08/25 13:44	08/11/25 16:11	10
3,3'-Dichlorobenzidine	ND		3600	550	ug/Kg	☆	08/08/25 13:44	08/11/25 16:11	10
3-Nitroaniline	ND		3600	260	ug/Kg	☆	08/08/25 13:44	08/11/25 16:11	10
4,6-Dinitro-2-methylphenol	ND		3600	410	ug/Kg	☆	08/08/25 13:44	08/11/25 16:11	10
4-Bromophenyl phenyl ether	ND		1900	320	ug/Kg	☆	08/08/25 13:44	08/11/25 16:11	10
4-Chloro-3-methylphenol	ND		1900	380	ug/Kg	☆	08/08/25 13:44	08/11/25 16:11	10
4-Chloroaniline	ND		1900	270	ug/Kg	☆	08/08/25 13:44	08/11/25 16:11	10
4-Chlorophenyl phenyl ether	ND		1900	390	ug/Kg	☆	08/08/25 13:44	08/11/25 16:11	10
4-Methylphenol	ND		3600	330	ug/Kg	☆	08/08/25 13:44	08/11/25 16:11	10
4-Nitroaniline	ND		3600	270	ug/Kg	☆	08/08/25 13:44	08/11/25 16:11	10
4-Nitrophenol	ND		3600	510	ug/Kg	☆	08/08/25 13:44	08/11/25 16:11	10
Acenaphthene	ND		1900	350	ug/Kg	☆	08/08/25 13:44	08/11/25 16:11	10
Acenaphthylene	ND		1900	360	ug/Kg	☆	08/08/25 13:44	08/11/25 16:11	10
Acetophenone	ND		1900	330	ug/Kg	☆	08/08/25 13:44	08/11/25 16:11	10
Anthracene	ND		1900	340	ug/Kg	☆	08/08/25 13:44	08/11/25 16:11	10
Atrazine	ND		1900	630	ug/Kg	☆	08/08/25 13:44	08/11/25 16:11	10
Benzaldehyde	ND		1900	1400	ug/Kg	☆	08/08/25 13:44	08/11/25 16:11	10
Benzo[a]anthracene	ND		1900	260	ug/Kg	☆	08/08/25 13:44	08/11/25 16:11	10

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-231655-1

Client Sample ID: SS-2

Lab Sample ID: 480-231655-2

Date Collected: 08/07/25 13:15

Matrix: Solid

Date Received: 08/07/25 15:00

Percent Solids: 89.9

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	840	J	1900	320	ug/Kg	☼	08/08/25 13:44	08/11/25 16:11	10
Benzo[b]fluoranthene	1500	J	1900	250	ug/Kg	☼	08/08/25 13:44	08/11/25 16:11	10
Benzo[g,h,i]perylene	740	J	1900	330	ug/Kg	☼	08/08/25 13:44	08/11/25 16:11	10
Benzo[k]fluoranthene	ND		1900	420	ug/Kg	☼	08/08/25 13:44	08/11/25 16:11	10
Biphenyl	ND		1900	350	ug/Kg	☼	08/08/25 13:44	08/11/25 16:11	10
bis (2-chloroisopropyl) ether	ND		1900	380	ug/Kg	☼	08/08/25 13:44	08/11/25 16:11	10
Bis(2-chloroethoxy)methane	ND		1900	360	ug/Kg	☼	08/08/25 13:44	08/11/25 16:11	10
Bis(2-chloroethyl)ether	ND		1900	350	ug/Kg	☼	08/08/25 13:44	08/11/25 16:11	10
Bis(2-ethylhexyl) phthalate	ND		1900	410	ug/Kg	☼	08/08/25 13:44	08/11/25 16:11	10
Butyl benzyl phthalate	ND		1900	340	ug/Kg	☼	08/08/25 13:44	08/11/25 16:11	10
Caprolactam	ND		1900	430	ug/Kg	☼	08/08/25 13:44	08/11/25 16:11	10
Carbazole	ND		1900	370	ug/Kg	☼	08/08/25 13:44	08/11/25 16:11	10
Chrysene	ND		1900	450	ug/Kg	☼	08/08/25 13:44	08/11/25 16:11	10
Dibenz(a,h)anthracene	ND		1900	380	ug/Kg	☼	08/08/25 13:44	08/11/25 16:11	10
Dibenzofuran	ND		1900	330	ug/Kg	☼	08/08/25 13:44	08/11/25 16:11	10
Diethyl phthalate	ND		1900	330	ug/Kg	☼	08/08/25 13:44	08/11/25 16:11	10
Dimethyl phthalate	ND		1900	360	ug/Kg	☼	08/08/25 13:44	08/11/25 16:11	10
Di-n-butyl phthalate	ND		1900	420	ug/Kg	☼	08/08/25 13:44	08/11/25 16:11	10
Di-n-octyl phthalate	ND		1900	360	ug/Kg	☼	08/08/25 13:44	08/11/25 16:11	10
Fluoranthene	1700	J	1900	340	ug/Kg	☼	08/08/25 13:44	08/11/25 16:11	10
Fluorene	ND		1900	340	ug/Kg	☼	08/08/25 13:44	08/11/25 16:11	10
Hexachlorobenzene	ND		1900	360	ug/Kg	☼	08/08/25 13:44	08/11/25 16:11	10
Hexachlorobutadiene	ND		1900	280	ug/Kg	☼	08/08/25 13:44	08/11/25 16:11	10
Hexachlorocyclopentadiene	ND		3600	820	ug/Kg	☼	08/08/25 13:44	08/11/25 16:11	10
Hexachloroethane	ND		1900	340	ug/Kg	☼	08/08/25 13:44	08/11/25 16:11	10
Indeno[1,2,3-cd]pyrene	630	J	1900	280	ug/Kg	☼	08/08/25 13:44	08/11/25 16:11	10
Isophorone	ND		1900	380	ug/Kg	☼	08/08/25 13:44	08/11/25 16:11	10
Naphthalene	ND		1900	310	ug/Kg	☼	08/08/25 13:44	08/11/25 16:11	10
Nitrobenzene	ND		1900	310	ug/Kg	☼	08/08/25 13:44	08/11/25 16:11	10
N-Nitrosodi-n-propylamine	ND		1900	420	ug/Kg	☼	08/08/25 13:44	08/11/25 16:11	10
N-Nitrosodiphenylamine	ND		1900	310	ug/Kg	☼	08/08/25 13:44	08/11/25 16:11	10
Pentachlorophenol	ND		3600	600	ug/Kg	☼	08/08/25 13:44	08/11/25 16:11	10
Phenanthrene	580	J	1900	350	ug/Kg	☼	08/08/25 13:44	08/11/25 16:11	10
Phenol	ND		1900	340	ug/Kg	☼	08/08/25 13:44	08/11/25 16:11	10
Pyrene	1300	J	1900	350	ug/Kg	☼	08/08/25 13:44	08/11/25 16:11	10

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	4700	T J	ug/Kg	☼	14.07	N/A	08/08/25 13:44	08/11/25 16:11	10
1-Eicosanol	9700	T J N	ug/Kg	☼	14.23	629-96-9	08/08/25 13:44	08/11/25 16:11	10
Heptacosane	3500	T J N	ug/Kg	☼	14.73	593-49-7	08/08/25 13:44	08/11/25 16:11	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	94		10 - 140	08/08/25 13:44	08/11/25 16:11	10
2-Fluorobiphenyl (Surr)	73		29 - 120	08/08/25 13:44	08/11/25 16:11	10
2-Fluorophenol (Surr)	77		18 - 120	08/08/25 13:44	08/11/25 16:11	10
Nitrobenzene-d5 (Surr)	82		22 - 120	08/08/25 13:44	08/11/25 16:11	10
Phenol-d5 (Surr)	67		23 - 120	08/08/25 13:44	08/11/25 16:11	10
p-Terphenyl-d14 (Surr)	75		28 - 124	08/08/25 13:44	08/11/25 16:11	10

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-231655-1

Client Sample ID: SS-2

Lab Sample ID: 480-231655-2

Date Collected: 08/07/25 13:15

Matrix: Solid

Date Received: 08/07/25 15:00

Percent Solids: 89.9

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11300		10.7	9.2	mg/Kg	✱	08/11/25 09:53	08/11/25 21:10	1
Antimony	ND		16.0	0.57	mg/Kg	✱	08/11/25 09:53	08/11/25 21:10	1
Arsenic	17.2		2.1	0.94	mg/Kg	✱	08/11/25 09:53	08/12/25 12:05	1
Barium	98.8		0.53	0.15	mg/Kg	✱	08/11/25 09:53	08/11/25 21:10	1
Beryllium	0.70	^5-	0.21	0.043	mg/Kg	✱	08/11/25 09:53	08/11/25 21:10	1
Cadmium	0.34		0.21	0.075	mg/Kg	✱	08/11/25 09:53	08/11/25 21:10	1
Calcium	8170	^5-	53.5	28.9	mg/Kg	✱	08/11/25 09:53	08/11/25 21:10	1
Chromium	15.5		0.53	0.39	mg/Kg	✱	08/11/25 09:53	08/11/25 21:10	1
Cobalt	9.2		0.53	0.11	mg/Kg	✱	08/11/25 09:53	08/11/25 21:10	1
Copper	39.5		1.1	0.61	mg/Kg	✱	08/11/25 09:53	08/11/25 21:10	1
Iron	22600		10.7	9.1	mg/Kg	✱	08/11/25 09:53	08/12/25 12:05	1
Lead	72.4		1.1	0.49	mg/Kg	✱	08/11/25 09:53	08/11/25 21:10	1
Magnesium	4190		21.4	9.1	mg/Kg	✱	08/11/25 09:53	08/11/25 21:10	1
Manganese	448		1.1	0.30	mg/Kg	✱	08/11/25 09:53	08/12/25 12:05	1
Nickel	28.7		5.3	0.27	mg/Kg	✱	08/11/25 09:53	08/11/25 21:10	1
Potassium	1810		32.1	25.9	mg/Kg	✱	08/11/25 09:53	08/11/25 21:10	1
Selenium	0.94	J	4.3	0.86	mg/Kg	✱	08/11/25 09:53	08/12/25 12:05	1
Silver	ND	^5-	0.64	0.21	mg/Kg	✱	08/11/25 09:53	08/11/25 21:10	1
Sodium	83.6	J	150	65.6	mg/Kg	✱	08/11/25 09:53	08/11/25 21:10	1
Thallium	ND		6.4	0.81	mg/Kg	✱	08/11/25 09:53	08/11/25 21:10	1
Vanadium	17.8		0.53	0.14	mg/Kg	✱	08/11/25 09:53	08/11/25 21:10	1
Zinc	132	^5- B	2.1	1.1	mg/Kg	✱	08/11/25 09:53	08/11/25 21:10	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16		0.023	0.0054	mg/Kg	✱	08/11/25 09:57	08/11/25 12:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	4.6		1.0	0.48	mg/Kg	✱	08/12/25 12:50	08/12/25 18:46	1

Client Sample ID: SS-3

Lab Sample ID: 480-231655-3

Date Collected: 08/07/25 13:30

Matrix: Solid

Date Received: 08/07/25 15:00

Percent Solids: 96.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		170	35	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
2,4,6-Trichlorophenol	ND		170	26	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
2,4-Dichlorophenol	ND		170	34	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
2,4-Dimethylphenol	ND		170	36	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
2,4-Dinitrophenol	ND		1700	33	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
2,4-Dinitrotoluene	ND		170	24	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
2,6-Dinitrotoluene	ND		170	25	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
2-Chloronaphthalene	ND		170	32	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
2-Chlorophenol	ND		170	27	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
2-Methylnaphthalene	55	J	170	27	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
2-Methylphenol	ND		170	28	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
2-Nitroaniline	ND		340	29	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
2-Nitrophenol	ND		170	20	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-231655-1

Client Sample ID: SS-3

Lab Sample ID: 480-231655-3

Date Collected: 08/07/25 13:30

Matrix: Solid

Date Received: 08/07/25 15:00

Percent Solids: 96.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	ND		340	51	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
3-Nitroaniline	ND		340	24	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
4,6-Dinitro-2-methylphenol	ND		340	38	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
4-Bromophenyl phenyl ether	ND		170	29	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
4-Chloro-3-methylphenol	ND		170	36	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
4-Chloroaniline	ND		170	25	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
4-Chlorophenyl phenyl ether	ND		170	36	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
4-Methylphenol	ND		340	31	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
4-Nitroaniline	ND		340	25	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
4-Nitrophenol	ND		340	47	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
Acenaphthene	ND		170	32	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
Acenaphthylene	37	J	170	33	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
Acetophenone	ND		170	31	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
Anthracene	39	J	170	32	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
Atrazine	ND		170	59	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
Benzaldehyde	ND		170	130	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
Benzo[a]anthracene	280		170	24	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
Benzo[a]pyrene	340		170	29	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
Benzo[b]fluoranthene	410		170	23	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
Benzo[g,h,i]perylene	330		170	30	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
Benzo[k]fluoranthene	330		170	39	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
Biphenyl	ND		170	33	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
bis (2-chloroisopropyl) ether	ND		170	35	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
Bis(2-chloroethoxy)methane	ND		170	33	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
Bis(2-chloroethyl)ether	ND		170	33	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
Bis(2-ethylhexyl) phthalate	ND		170	38	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
Butyl benzyl phthalate	ND		170	32	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
Caprolactam	ND		170	40	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
Carbazole	ND		170	34	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
Chrysene	390		170	42	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
Dibenz(a,h)anthracene	ND		170	35	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
Dibenzofuran	ND		170	31	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
Diethyl phthalate	ND		170	31	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
Dimethyl phthalate	ND		170	33	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
Di-n-butyl phthalate	ND		170	39	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
Di-n-octyl phthalate	ND		170	33	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
Fluoranthene	630		170	32	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
Fluorene	ND		170	32	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
Hexachlorobenzene	ND		170	33	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
Hexachlorobutadiene	ND		170	26	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
Hexachlorocyclopentadiene	ND		340	76	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
Hexachloroethane	ND		170	32	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
Indeno[1,2,3-cd]pyrene	250		170	26	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
Isophorone	ND		170	36	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
Naphthalene	ND		170	29	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
Nitrobenzene	ND		170	29	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
N-Nitrosodi-n-propylamine	ND		170	39	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
N-Nitrosodiphenylamine	ND		170	29	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1
Pentachlorophenol	ND		340	55	ug/Kg	✱	08/08/25 13:44	08/11/25 16:35	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-231655-1

Client Sample ID: SS-3

Lab Sample ID: 480-231655-3

Date Collected: 08/07/25 13:30

Matrix: Solid

Date Received: 08/07/25 15:00

Percent Solids: 96.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	190		170	32	ug/Kg	☼	08/08/25 13:44	08/11/25 16:35	1
Phenol	ND		170	32	ug/Kg	☼	08/08/25 13:44	08/11/25 16:35	1
Pyrene	510		170	33	ug/Kg	☼	08/08/25 13:44	08/11/25 16:35	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	11000	T J	ug/Kg	☼	1.97	N/A	08/08/25 13:44	08/11/25 16:35	1
Unknown	500	T J	ug/Kg	☼	2.74	N/A	08/08/25 13:44	08/11/25 16:35	1
Unknown	1700	T J	ug/Kg	☼	3.47	N/A	08/08/25 13:44	08/11/25 16:35	1
Unknown	850	T J	ug/Kg	☼	12.93	N/A	08/08/25 13:44	08/11/25 16:35	1
Oxirane, tridecyl-	540	T J N	ug/Kg	☼	13.01	18633-25-5	08/08/25 13:44	08/11/25 16:35	1
1-Octadecanol	480	T J N	ug/Kg	☼	13.18	112-92-5	08/08/25 13:44	08/11/25 16:35	1
1-Octadecanethiol	910	T J N	ug/Kg	☼	13.72	2885-00-9	08/08/25 13:44	08/11/25 16:35	1
Oxirane, hexadecyl-	1800	T J N	ug/Kg	☼	14.08	7390-81-0	08/08/25 13:44	08/11/25 16:35	1
Cyclotetrasiloxane	3700	T J N	ug/Kg	☼	14.23	297-03-0	08/08/25 13:44	08/11/25 16:35	1
Hexadecanal	930	T J N	ug/Kg	☼	14.60	629-80-1	08/08/25 13:44	08/11/25 16:35	1
Docosane, 11-butyl-	1200	T J N	ug/Kg	☼	14.74	13475-76-8	08/08/25 13:44	08/11/25 16:35	1
1-Nonadecene	1100	T J N	ug/Kg	☼	14.77	18435-45-5	08/08/25 13:44	08/11/25 16:35	1
Octadecanal	1900	T J N	ug/Kg	☼	15.19	638-66-4	08/08/25 13:44	08/11/25 16:35	1
1-Eicosanol	2600	T J N	ug/Kg	☼	15.40	629-96-9	08/08/25 13:44	08/11/25 16:35	1
Unknown	1200	T J	ug/Kg	☼	15.44	N/A	08/08/25 13:44	08/11/25 16:35	1
Unknown	610	T J	ug/Kg	☼	15.94	N/A	08/08/25 13:44	08/11/25 16:35	1
Stigmast-4-en-3-one	1000	T J N	ug/Kg	☼	16.23	1058-61-3	08/08/25 13:44	08/11/25 16:35	1
Unknown	1900	T J	ug/Kg	☼	16.26	N/A	08/08/25 13:44	08/11/25 16:35	1
Unknown	2300	T J	ug/Kg	☼	16.48	N/A	08/08/25 13:44	08/11/25 16:35	1
Unknown	1900	T J	ug/Kg	☼	16.93	N/A	08/08/25 13:44	08/11/25 16:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	81		10 - 140	08/08/25 13:44	08/11/25 16:35	1
2-Fluorobiphenyl (Surr)	86		29 - 120	08/08/25 13:44	08/11/25 16:35	1
2-Fluorophenol (Surr)	65		18 - 120	08/08/25 13:44	08/11/25 16:35	1
Nitrobenzene-d5 (Surr)	81		22 - 120	08/08/25 13:44	08/11/25 16:35	1
Phenol-d5 (Surr)	70		23 - 120	08/08/25 13:44	08/11/25 16:35	1
p-Terphenyl-d14 (Surr)	85		28 - 124	08/08/25 13:44	08/11/25 16:35	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9130		10.1	8.7	mg/Kg	☼	08/11/25 09:53	08/11/25 21:12	1
Antimony	ND		15.1	0.53	mg/Kg	☼	08/11/25 09:53	08/11/25 21:12	1
Arsenic	8.3		2.0	0.88	mg/Kg	☼	08/11/25 09:53	08/12/25 12:07	1
Barium	106		0.50	0.14	mg/Kg	☼	08/11/25 09:53	08/11/25 21:12	1
Beryllium	0.69	^5-	0.20	0.040	mg/Kg	☼	08/11/25 09:53	08/11/25 21:12	1
Cadmium	0.60		0.20	0.070	mg/Kg	☼	08/11/25 09:53	08/11/25 21:12	1
Calcium	108000		251	136	mg/Kg	☼	08/11/25 09:53	08/12/25 12:09	5
Chromium	24.2		0.50	0.36	mg/Kg	☼	08/11/25 09:53	08/11/25 21:12	1
Cobalt	6.5		0.50	0.10	mg/Kg	☼	08/11/25 09:53	08/11/25 21:12	1
Copper	109		1.0	0.57	mg/Kg	☼	08/11/25 09:53	08/11/25 21:12	1
Iron	20100		10.1	8.5	mg/Kg	☼	08/11/25 09:53	08/12/25 12:07	1
Lead	101		1.0	0.46	mg/Kg	☼	08/11/25 09:53	08/11/25 21:12	1
Magnesium	23800		20.1	8.5	mg/Kg	☼	08/11/25 09:53	08/11/25 21:12	1
Manganese	641		1.0	0.28	mg/Kg	☼	08/11/25 09:53	08/12/25 12:07	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-231655-1

Client Sample ID: SS-3

Lab Sample ID: 480-231655-3

Date Collected: 08/07/25 13:30

Matrix: Solid

Date Received: 08/07/25 15:00

Percent Solids: 96.8

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	21.3		5.0	0.25	mg/Kg	✱	08/11/25 09:53	08/11/25 21:12	1
Potassium	1720		30.2	24.4	mg/Kg	✱	08/11/25 09:53	08/11/25 21:12	1
Selenium	1.1	J	4.0	0.80	mg/Kg	✱	08/11/25 09:53	08/12/25 12:07	1
Silver	ND	^5-	0.60	0.20	mg/Kg	✱	08/11/25 09:53	08/11/25 21:12	1
Sodium	163		141	61.6	mg/Kg	✱	08/11/25 09:53	08/11/25 21:12	1
Thallium	ND		6.0	0.76	mg/Kg	✱	08/11/25 09:53	08/11/25 21:12	1
Vanadium	19.9		0.50	0.13	mg/Kg	✱	08/11/25 09:53	08/11/25 21:12	1
Zinc	155	^5- B	2.0	1.0	mg/Kg	✱	08/11/25 09:53	08/11/25 21:12	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12		0.020	0.0046	mg/Kg	✱	08/11/25 09:57	08/11/25 12:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	2.2		0.99	0.48	mg/Kg	✱	08/12/25 12:50	08/12/25 18:47	1

Client Sample ID: SS-4

Lab Sample ID: 480-231655-4

Date Collected: 08/07/25 13:45

Matrix: Solid

Date Received: 08/07/25 15:00

Percent Solids: 88.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		950	190	ug/Kg	✱	08/08/25 13:44	08/11/25 17:00	5
2,4,6-Trichlorophenol	ND		950	140	ug/Kg	✱	08/08/25 13:44	08/11/25 17:00	5
2,4-Dichlorophenol	ND		950	190	ug/Kg	✱	08/08/25 13:44	08/11/25 17:00	5
2,4-Dimethylphenol	ND		950	200	ug/Kg	✱	08/08/25 13:44	08/11/25 17:00	5
2,4-Dinitrophenol	ND		9300	180	ug/Kg	✱	08/08/25 13:44	08/11/25 17:00	5
2,4-Dinitrotoluene	ND		950	130	ug/Kg	✱	08/08/25 13:44	08/11/25 17:00	5
2,6-Dinitrotoluene	ND		950	140	ug/Kg	✱	08/08/25 13:44	08/11/25 17:00	5
2-Chloronaphthalene	ND		950	180	ug/Kg	✱	08/08/25 13:44	08/11/25 17:00	5
2-Chlorophenol	ND		950	150	ug/Kg	✱	08/08/25 13:44	08/11/25 17:00	5
2-Methylnaphthalene	ND		950	150	ug/Kg	✱	08/08/25 13:44	08/11/25 17:00	5
2-Methylphenol	ND		950	150	ug/Kg	✱	08/08/25 13:44	08/11/25 17:00	5
2-Nitroaniline	ND		1800	160	ug/Kg	✱	08/08/25 13:44	08/11/25 17:00	5
2-Nitrophenol	ND		950	110	ug/Kg	✱	08/08/25 13:44	08/11/25 17:00	5
3,3'-Dichlorobenzidine	ND		1800	280	ug/Kg	✱	08/08/25 13:44	08/11/25 17:00	5
3-Nitroaniline	ND		1800	130	ug/Kg	✱	08/08/25 13:44	08/11/25 17:00	5
4,6-Dinitro-2-methylphenol	ND		1800	210	ug/Kg	✱	08/08/25 13:44	08/11/25 17:00	5
4-Bromophenyl phenyl ether	ND		950	160	ug/Kg	✱	08/08/25 13:44	08/11/25 17:00	5
4-Chloro-3-methylphenol	ND		950	190	ug/Kg	✱	08/08/25 13:44	08/11/25 17:00	5
4-Chloroaniline	ND		950	140	ug/Kg	✱	08/08/25 13:44	08/11/25 17:00	5
4-Chlorophenyl phenyl ether	ND		950	200	ug/Kg	✱	08/08/25 13:44	08/11/25 17:00	5
4-Methylphenol	ND		1800	170	ug/Kg	✱	08/08/25 13:44	08/11/25 17:00	5
4-Nitroaniline	ND		1800	140	ug/Kg	✱	08/08/25 13:44	08/11/25 17:00	5
4-Nitrophenol	ND		1800	260	ug/Kg	✱	08/08/25 13:44	08/11/25 17:00	5
Acenaphthene	ND		950	180	ug/Kg	✱	08/08/25 13:44	08/11/25 17:00	5
Acenaphthylene	ND		950	180	ug/Kg	✱	08/08/25 13:44	08/11/25 17:00	5
Acetophenone	ND		950	170	ug/Kg	✱	08/08/25 13:44	08/11/25 17:00	5
Anthracene	ND		950	170	ug/Kg	✱	08/08/25 13:44	08/11/25 17:00	5

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-231655-1

Client Sample ID: SS-4

Lab Sample ID: 480-231655-4

Date Collected: 08/07/25 13:45

Matrix: Solid

Date Received: 08/07/25 15:00

Percent Solids: 88.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	ND		950	320	ug/Kg	☼	08/08/25 13:44	08/11/25 17:00	5
Benzaldehyde	ND		950	720	ug/Kg	☼	08/08/25 13:44	08/11/25 17:00	5
Benzo[a]anthracene	970		950	130	ug/Kg	☼	08/08/25 13:44	08/11/25 17:00	5
Benzo[a]pyrene	1100		950	160	ug/Kg	☼	08/08/25 13:44	08/11/25 17:00	5
Benzo[b]fluoranthene	1800		950	130	ug/Kg	☼	08/08/25 13:44	08/11/25 17:00	5
Benzo[g,h,i]perylene	920 J		950	170	ug/Kg	☼	08/08/25 13:44	08/11/25 17:00	5
Benzo[k]fluoranthene	590 J		950	210	ug/Kg	☼	08/08/25 13:44	08/11/25 17:00	5
Biphenyl	ND		950	180	ug/Kg	☼	08/08/25 13:44	08/11/25 17:00	5
bis (2-chloroisopropyl) ether	ND		950	190	ug/Kg	☼	08/08/25 13:44	08/11/25 17:00	5
Bis(2-chloroethoxy)methane	ND		950	180	ug/Kg	☼	08/08/25 13:44	08/11/25 17:00	5
Bis(2-chloroethyl)ether	ND		950	180	ug/Kg	☼	08/08/25 13:44	08/11/25 17:00	5
Bis(2-ethylhexyl) phthalate	ND		950	210	ug/Kg	☼	08/08/25 13:44	08/11/25 17:00	5
Butyl benzyl phthalate	ND		950	170	ug/Kg	☼	08/08/25 13:44	08/11/25 17:00	5
Caprolactam	ND		950	220	ug/Kg	☼	08/08/25 13:44	08/11/25 17:00	5
Carbazole	ND		950	190	ug/Kg	☼	08/08/25 13:44	08/11/25 17:00	5
Chrysene	1400		950	230	ug/Kg	☼	08/08/25 13:44	08/11/25 17:00	5
Dibenz(a,h)anthracene	ND		950	190	ug/Kg	☼	08/08/25 13:44	08/11/25 17:00	5
Dibenzofuran	ND		950	170	ug/Kg	☼	08/08/25 13:44	08/11/25 17:00	5
Diethyl phthalate	ND		950	170	ug/Kg	☼	08/08/25 13:44	08/11/25 17:00	5
Dimethyl phthalate	ND		950	180	ug/Kg	☼	08/08/25 13:44	08/11/25 17:00	5
Di-n-butyl phthalate	ND		950	210	ug/Kg	☼	08/08/25 13:44	08/11/25 17:00	5
Di-n-octyl phthalate	ND		950	180	ug/Kg	☼	08/08/25 13:44	08/11/25 17:00	5
Fluoranthene	2500		950	170	ug/Kg	☼	08/08/25 13:44	08/11/25 17:00	5
Fluorene	ND		950	170	ug/Kg	☼	08/08/25 13:44	08/11/25 17:00	5
Hexachlorobenzene	ND		950	180	ug/Kg	☼	08/08/25 13:44	08/11/25 17:00	5
Hexachlorobutadiene	ND		950	140	ug/Kg	☼	08/08/25 13:44	08/11/25 17:00	5
Hexachlorocyclopentadiene	ND		1800	410	ug/Kg	☼	08/08/25 13:44	08/11/25 17:00	5
Hexachloroethane	ND		950	170	ug/Kg	☼	08/08/25 13:44	08/11/25 17:00	5
Indeno[1,2,3-cd]pyrene	870 J		950	140	ug/Kg	☼	08/08/25 13:44	08/11/25 17:00	5
Isophorone	ND		950	190	ug/Kg	☼	08/08/25 13:44	08/11/25 17:00	5
Naphthalene	ND		950	160	ug/Kg	☼	08/08/25 13:44	08/11/25 17:00	5
Nitrobenzene	ND		950	160	ug/Kg	☼	08/08/25 13:44	08/11/25 17:00	5
N-Nitrosodi-n-propylamine	ND		950	210	ug/Kg	☼	08/08/25 13:44	08/11/25 17:00	5
N-Nitrosodiphenylamine	ND		950	160	ug/Kg	☼	08/08/25 13:44	08/11/25 17:00	5
Pentachlorophenol	ND		1800	300	ug/Kg	☼	08/08/25 13:44	08/11/25 17:00	5
Phenanthrene	910 J		950	180	ug/Kg	☼	08/08/25 13:44	08/11/25 17:00	5
Phenol	ND		950	170	ug/Kg	☼	08/08/25 13:44	08/11/25 17:00	5
Pyrene	2100		950	180	ug/Kg	☼	08/08/25 13:44	08/11/25 17:00	5

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Oxirane, hexadecyl-	2900	T J N	ug/Kg	☼	14.07	7390-81-0	08/08/25 13:44	08/11/25 17:00	5
Unknown	5400	T J	ug/Kg	☼	14.23	N/A	08/08/25 13:44	08/11/25 17:00	5
Unknown	1600	T J	ug/Kg	☼	15.93	N/A	08/08/25 13:44	08/11/25 17:00	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	43		10 - 140	08/08/25 13:44	08/11/25 17:00	5
2-Fluorobiphenyl (Surr)	32		29 - 120	08/08/25 13:44	08/11/25 17:00	5
2-Fluorophenol (Surr)	41		18 - 120	08/08/25 13:44	08/11/25 17:00	5
Nitrobenzene-d5 (Surr)	37		22 - 120	08/08/25 13:44	08/11/25 17:00	5
Phenol-d5 (Surr)	35		23 - 120	08/08/25 13:44	08/11/25 17:00	5

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-231655-1

Client Sample ID: SS-4

Lab Sample ID: 480-231655-4

Date Collected: 08/07/25 13:45

Matrix: Solid

Date Received: 08/07/25 15:00

Percent Solids: 88.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl-d14 (Surr)	38		28 - 124	08/08/25 13:44	08/11/25 17:00	5

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	14200		11.6	10.0	mg/Kg	✱	08/11/25 09:53	08/11/25 21:21	1
Antimony	ND		17.5	0.62	mg/Kg	✱	08/11/25 09:53	08/11/25 21:21	1
Arsenic	10.8		2.3	1.0	mg/Kg	✱	08/11/25 09:53	08/12/25 12:11	1
Barium	156		0.58	0.16	mg/Kg	✱	08/11/25 09:53	08/11/25 21:21	1
Beryllium	0.81	^5-	0.23	0.047	mg/Kg	✱	08/11/25 09:53	08/11/25 21:21	1
Cadmium	0.43		0.23	0.081	mg/Kg	✱	08/11/25 09:53	08/11/25 21:21	1
Calcium	6660	^5-	58.2	31.4	mg/Kg	✱	08/11/25 09:53	08/11/25 21:21	1
Chromium	28.2		0.58	0.42	mg/Kg	✱	08/11/25 09:53	08/11/25 21:21	1
Cobalt	12.4		0.58	0.12	mg/Kg	✱	08/11/25 09:53	08/11/25 21:21	1
Copper	39.2		1.2	0.66	mg/Kg	✱	08/11/25 09:53	08/11/25 21:21	1
Iron	25400		11.6	9.9	mg/Kg	✱	08/11/25 09:53	08/12/25 12:11	1
Lead	157		1.2	0.54	mg/Kg	✱	08/11/25 09:53	08/11/25 21:21	1
Magnesium	3800		23.3	9.9	mg/Kg	✱	08/11/25 09:53	08/11/25 21:21	1
Manganese	345		1.2	0.33	mg/Kg	✱	08/11/25 09:53	08/12/25 12:11	1
Nickel	36.7		5.8	0.29	mg/Kg	✱	08/11/25 09:53	08/11/25 21:21	1
Potassium	2740		34.9	28.2	mg/Kg	✱	08/11/25 09:53	08/11/25 21:21	1
Selenium	1.1	J	4.7	0.93	mg/Kg	✱	08/11/25 09:53	08/12/25 12:11	1
Silver	ND	^5-	0.70	0.23	mg/Kg	✱	08/11/25 09:53	08/11/25 21:21	1
Sodium	118	J	163	71.3	mg/Kg	✱	08/11/25 09:53	08/11/25 21:21	1
Thallium	ND		7.0	0.88	mg/Kg	✱	08/11/25 09:53	08/11/25 21:21	1
Vanadium	26.2		0.58	0.15	mg/Kg	✱	08/11/25 09:53	08/11/25 21:21	1
Zinc	153	^5- B	2.3	1.2	mg/Kg	✱	08/11/25 09:53	08/11/25 21:21	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.25		0.022	0.0050	mg/Kg	✱	08/11/25 09:57	08/11/25 12:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	3.8	F1	1.1	0.53	mg/Kg	✱	08/12/25 12:50	08/12/25 18:50	1

Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-231655-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (10-140)	FBP (29-120)	2FP (18-120)	NBZ (22-120)	PHL (23-120)	TPHd14 (28-124)
480-231655-1	SS-1	89	77	70	79	61	77
480-231655-2	SS-2	94	73	77	82	67	75
480-231655-3	SS-3	81	86	65	81	70	85
480-231655-4	SS-4	43	32	41	37	35	38
LCS 480-753801/2-A	Lab Control Sample	81	86	77	88	80	89
MB 480-753801/1-A	Method Blank	62	91	76	90	77	92

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-231655-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-753801/1-A

Matrix: Solid

Analysis Batch: 753867

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 753801

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		170	34	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
2,4,6-Trichlorophenol	ND		170	26	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
2,4-Dichlorophenol	ND		170	33	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
2,4-Dimethylphenol	ND		170	36	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
2,4-Dinitrophenol	ND		1700	32	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
2,4-Dinitrotoluene	ND		170	23	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
2,6-Dinitrotoluene	ND		170	24	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
2-Chloronaphthalene	ND		170	32	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
2-Chlorophenol	ND		170	27	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
2-Methylnaphthalene	ND		170	27	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
2-Methylphenol	ND		170	27	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
2-Nitroaniline	ND		330	29	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
2-Nitrophenol	ND		170	19	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
3,3'-Dichlorobenzidine	ND		330	50	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
3-Nitroaniline	ND		330	24	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
4,6-Dinitro-2-methylphenol	ND		330	37	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
4-Bromophenyl phenyl ether	ND		170	29	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
4-Chloro-3-methylphenol	ND		170	35	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
4-Chloroaniline	ND		170	24	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
4-Chlorophenyl phenyl ether	ND		170	36	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
4-Methylphenol	ND		330	30	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
4-Nitroaniline	ND		330	25	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
4-Nitrophenol	ND		330	46	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
Acenaphthene	ND		170	31	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
Acenaphthylene	ND		170	33	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
Acetophenone	ND		170	30	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
Anthracene	ND		170	31	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
Atrazine	ND		170	57	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
Benzaldehyde	ND		170	130	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
Benzo[a]anthracene	ND		170	23	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
Benzo[a]pyrene	ND		170	29	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
Benzo[b]fluoranthene	ND		170	23	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
Benzo[g,h,i]perylene	ND		170	30	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
Benzo[k]fluoranthene	ND		170	38	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
Biphenyl	ND		170	32	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
bis (2-chloroisopropyl) ether	ND		170	35	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
Bis(2-chloroethoxy)methane	ND		170	32	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
Bis(2-chloroethyl)ether	ND		170	32	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
Bis(2-ethylhexyl) phthalate	ND		170	37	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
Butyl benzyl phthalate	ND		170	31	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
Caprolactam	ND		170	39	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
Carbazole	ND		170	33	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
Chrysene	ND		170	41	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
Dibenz(a,h)anthracene	ND		170	34	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
Dibenzofuran	ND		170	30	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
Diethyl phthalate	ND		170	30	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
Dimethyl phthalate	ND		170	33	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
Di-n-butyl phthalate	ND		170	38	ug/Kg		08/08/25 13:44	08/11/25 10:01	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-231655-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-753801/1-A

Matrix: Solid

Analysis Batch: 753867

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 753801

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		170	32	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
Fluoranthene	ND		170	31	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
Fluorene	ND		170	31	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
Hexachlorobenzene	ND		170	33	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
Hexachlorobutadiene	ND		170	25	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
Hexachlorocyclopentadiene	ND		330	74	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
Hexachloroethane	ND		170	31	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
Indeno[1,2,3-cd]pyrene	ND		170	25	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
Isophorone	ND		170	35	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
Naphthalene	ND		170	28	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
Nitrobenzene	ND		170	28	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
N-Nitrosodi-n-propylamine	ND		170	38	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
N-Nitrosodiphenylamine	ND		170	28	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
Pentachlorophenol	ND		330	54	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
Phenanthrene	ND		170	32	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
Phenol	ND		170	31	ug/Kg		08/08/25 13:44	08/11/25 10:01	1
Pyrene	ND		170	32	ug/Kg		08/08/25 13:44	08/11/25 10:01	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	11300	T J	ug/Kg		2.00	N/A	08/08/25 13:44	08/11/25 10:01	1
Unknown	375	T J	ug/Kg		2.80	N/A	08/08/25 13:44	08/11/25 10:01	1
Unknown	18700	T J	ug/Kg		3.50	N/A	08/08/25 13:44	08/11/25 10:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	62		10 - 140	08/08/25 13:44	08/11/25 10:01	1
2-Fluorobiphenyl (Surr)	91		29 - 120	08/08/25 13:44	08/11/25 10:01	1
2-Fluorophenol (Surr)	76		18 - 120	08/08/25 13:44	08/11/25 10:01	1
Nitrobenzene-d5 (Surr)	90		22 - 120	08/08/25 13:44	08/11/25 10:01	1
Phenol-d5 (Surr)	77		23 - 120	08/08/25 13:44	08/11/25 10:01	1
p-Terphenyl-d14 (Surr)	92		28 - 124	08/08/25 13:44	08/11/25 10:01	1

Lab Sample ID: LCS 480-753801/2-A

Matrix: Solid

Analysis Batch: 753867

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 753801

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-Trichlorophenol	2670	2100		ug/Kg		79	52 - 120
2,4,6-Trichlorophenol	2670	2200		ug/Kg		82	51 - 120
2,4-Dichlorophenol	2670	2180		ug/Kg		82	44 - 120
2,4-Dimethylphenol	2670	2030		ug/Kg		76	48 - 120
2,4-Dinitrophenol	5330	3190		ug/Kg		60	28 - 120
2,4-Dinitrotoluene	2670	2480		ug/Kg		93	55 - 125
2,6-Dinitrotoluene	2670	2370		ug/Kg		89	51 - 125
2-Chloronaphthalene	2670	2150		ug/Kg		81	46 - 120
2-Chlorophenol	2670	1980		ug/Kg		74	40 - 120
2-Methylnaphthalene	2670	2120		ug/Kg		80	45 - 120
2-Methylphenol	2670	2050		ug/Kg		77	41 - 120
2-Nitroaniline	2670	2210		ug/Kg		83	51 - 125

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-231655-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-753801/2-A

Matrix: Solid

Analysis Batch: 753867

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 753801

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Nitrophenol	2670	1970		ug/Kg		74	43 - 120
3,3'-Dichlorobenzidine	2670	1830		ug/Kg		69	10 - 120
3-Nitroaniline	2670	1700		ug/Kg		64	33 - 120
4,6-Dinitro-2-methylphenol	5330	4380		ug/Kg		82	49 - 126
4-Bromophenyl phenyl ether	2670	2380		ug/Kg		89	55 - 123
4-Chloro-3-methylphenol	2670	2110		ug/Kg		79	54 - 120
4-Chloroaniline	2670	1470		ug/Kg		55	20 - 120
4-Chlorophenyl phenyl ether	2670	2240		ug/Kg		84	54 - 120
4-Methylphenol	2670	2040		ug/Kg		76	43 - 120
4-Nitroaniline	2670	2090		ug/Kg		78	54 - 120
4-Nitrophenol	5330	4190		ug/Kg		79	47 - 120
Acenaphthene	2670	2090		ug/Kg		78	49 - 121
Acenaphthylene	2670	2080		ug/Kg		78	49 - 120
Acetophenone	2670	2060		ug/Kg		77	39 - 120
Anthracene	2670	2270		ug/Kg		85	57 - 120
Atrazine	2670	1780		ug/Kg		67	44 - 120
Benzaldehyde	2670	1300		ug/Kg		49	10 - 120
Benzo[a]anthracene	2670	2370		ug/Kg		89	58 - 120
Benzo[a]pyrene	2670	2210		ug/Kg		83	59 - 122
Benzo[b]fluoranthene	2670	2140		ug/Kg		80	56 - 120
Benzo[g,h,i]perylene	2670	2400		ug/Kg		90	56 - 132
Benzo[k]fluoranthene	2670	2310		ug/Kg		87	59 - 127
Biphenyl	2670	2210		ug/Kg		83	47 - 120
bis (2-chloroisopropyl) ether	2670	1920		ug/Kg		72	31 - 120
Bis(2-chloroethoxy)methane	2670	2030		ug/Kg		76	42 - 120
Bis(2-chloroethyl)ether	2670	1960		ug/Kg		74	34 - 120
Bis(2-ethylhexyl) phthalate	2670	2470		ug/Kg		93	49 - 130
Butyl benzyl phthalate	2670	2460		ug/Kg		92	50 - 122
Caprolactam	2670	1360		ug/Kg		51	10 - 120
Carbazole	2670	2430		ug/Kg		91	58 - 124
Chrysene	2670	2310		ug/Kg		86	57 - 120
Dibenz(a,h)anthracene	2670	2360		ug/Kg		88	53 - 124
Dibenzofuran	2670	2170		ug/Kg		81	53 - 120
Diethyl phthalate	2670	2240		ug/Kg		84	54 - 120
Dimethyl phthalate	2670	2200		ug/Kg		83	53 - 120
Di-n-butyl phthalate	2670	2390		ug/Kg		90	49 - 120
Di-n-octyl phthalate	2670	2520		ug/Kg		94	42 - 125
Fluoranthene	2670	2340		ug/Kg		88	57 - 121
Fluorene	2670	2170		ug/Kg		81	55 - 121
Hexachlorobenzene	2670	2230		ug/Kg		83	56 - 120
Hexachlorobutadiene	2670	2090		ug/Kg		79	40 - 120
Hexachlorocyclopentadiene	2670	2210		ug/Kg		83	30 - 125
Hexachloroethane	2670	1750		ug/Kg		66	34 - 120
Indeno[1,2,3-cd]pyrene	2670	2230		ug/Kg		84	53 - 125
Isophorone	2670	2070		ug/Kg		78	46 - 120
Naphthalene	2670	2170		ug/Kg		81	43 - 120
Nitrobenzene	2670	2270		ug/Kg		85	40 - 120
N-Nitrosodi-n-propylamine	2670	1990		ug/Kg		75	41 - 120
N-Nitrosodiphenylamine	2670	2340		ug/Kg		88	57 - 126

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-231655-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-753801/2-A

Matrix: Solid

Analysis Batch: 753867

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 753801

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Pentachlorophenol	5330	3480		ug/Kg		65	10 - 124
Phenanthrene	2670	2360		ug/Kg		89	57 - 120
Phenol	2670	1880		ug/Kg		70	37 - 120
Pyrene	2670	2350		ug/Kg		88	59 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	81		10 - 140
2-Fluorobiphenyl (Surr)	86		29 - 120
2-Fluorophenol (Surr)	77		18 - 120
Nitrobenzene-d5 (Surr)	88		22 - 120
Phenol-d5 (Surr)	80		23 - 120
p-Terphenyl-d14 (Surr)	89		28 - 124

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 480-753810/1-A

Matrix: Solid

Analysis Batch: 753990

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 753810

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		9.8	8.5	mg/Kg		08/11/25 09:53	08/11/25 20:57	1
Antimony	ND		14.7	0.52	mg/Kg		08/11/25 09:53	08/11/25 20:57	1
Barium	ND		0.49	0.14	mg/Kg		08/11/25 09:53	08/11/25 20:57	1
Beryllium	ND	^5-	0.20	0.039	mg/Kg		08/11/25 09:53	08/11/25 20:57	1
Cadmium	ND		0.20	0.069	mg/Kg		08/11/25 09:53	08/11/25 20:57	1
Calcium	ND	^5-	49.0	26.5	mg/Kg		08/11/25 09:53	08/11/25 20:57	1
Chromium	ND		0.49	0.35	mg/Kg		08/11/25 09:53	08/11/25 20:57	1
Cobalt	ND		0.49	0.098	mg/Kg		08/11/25 09:53	08/11/25 20:57	1
Copper	ND		0.98	0.56	mg/Kg		08/11/25 09:53	08/11/25 20:57	1
Iron	ND	^5-	9.8	8.3	mg/Kg		08/11/25 09:53	08/11/25 20:57	1
Lead	ND		0.98	0.45	mg/Kg		08/11/25 09:53	08/11/25 20:57	1
Magnesium	ND		19.6	8.3	mg/Kg		08/11/25 09:53	08/11/25 20:57	1
Manganese	ND	^5-	0.98	0.27	mg/Kg		08/11/25 09:53	08/11/25 20:57	1
Nickel	ND		4.9	0.25	mg/Kg		08/11/25 09:53	08/11/25 20:57	1
Potassium	ND		29.4	23.8	mg/Kg		08/11/25 09:53	08/11/25 20:57	1
Silver	ND	^5-	0.59	0.20	mg/Kg		08/11/25 09:53	08/11/25 20:57	1
Sodium	ND		137	60.1	mg/Kg		08/11/25 09:53	08/11/25 20:57	1
Thallium	ND		5.9	0.75	mg/Kg		08/11/25 09:53	08/11/25 20:57	1
Vanadium	ND		0.49	0.13	mg/Kg		08/11/25 09:53	08/11/25 20:57	1
Zinc	1.09	J ^5-	2.0	1.0	mg/Kg		08/11/25 09:53	08/11/25 20:57	1

Lab Sample ID: MB 480-753810/1-A

Matrix: Solid

Analysis Batch: 754055

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 753810

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.86	mg/Kg		08/11/25 09:53	08/12/25 11:46	1
Selenium	ND		3.9	0.78	mg/Kg		08/11/25 09:53	08/12/25 11:46	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-231655-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-753810/2-A
Matrix: Solid
Analysis Batch: 753990

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 753810

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	7680	7706		mg/Kg		100.3	47.4 - 130.2
Antimony	201	64.05		mg/Kg		31.9	0.06 - 100.0
Barium	211	203.2		mg/Kg		96.3	73.9 - 107.1
Beryllium	270	227.4		mg/Kg		84.2	73.0 - 104.4
Cadmium	221	167.7		mg/Kg		75.9	70.6 - 101.8
Calcium	4280	3810		mg/Kg		89.0	77.3 - 111.0
Chromium	149	122.5		mg/Kg		82.2	71.8 - 105.4
Cobalt	142	127.3		mg/Kg		89.6	73.2 - 104.2
Copper	264	209.1		mg/Kg		79.2	73.5 - 104.2
Iron	7360	6604		mg/Kg		89.7	55.4 - 130.3
Lead	106	93.67		mg/Kg		88.4	76.1 - 109.4
Magnesium	2170	1889		mg/Kg		87.0	68.7 - 112.0
Manganese	270	215.4		mg/Kg		79.8	73.0 - 107.8
Nickel	177	158.8		mg/Kg		89.7	71.8 - 103.4
Potassium	2340	2104		mg/Kg		89.9	62.8 - 113.7
Silver	59.9	48.88		mg/Kg		81.6	72.8 - 110.7
Sodium	306	255.1		mg/Kg		83.4	66.0 - 113.4
Thallium	205	171.3		mg/Kg		83.6	71.7 - 106.8
Vanadium	155	127.2		mg/Kg		82.0	69.0 - 107.7
Zinc	398	322.3		mg/Kg		81.0	68.8 - 104.5

Lab Sample ID: LCSSRM 480-753810/2-A
Matrix: Solid
Analysis Batch: 754055

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 753810

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	181	131.9		mg/Kg		72.9	66.3 - 97.8
Selenium	139	108.2		mg/Kg		77.8	70.0 - 107.9

QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-231655-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 480-231655-1 MS

Matrix: Solid

Analysis Batch: 753990

Client Sample ID: SS-1

Prep Type: Total/NA

Prep Batch: 753810

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	13600		1180	20320	4	mg/Kg	✱	567	75 - 125
Antimony	ND	F1	116	50.65	F1	mg/Kg	✱	44	75 - 125
Barium	141	F1	232	359.3		mg/Kg	✱	94	75 - 125
Beryllium	0.83	^5-	115	101.5	^5-	mg/Kg	✱	88	75 - 125
Cadmium	0.42	F1	116	96.35		mg/Kg	✱	83	75 - 125
Chromium	26.4		116	124.8		mg/Kg	✱	85	75 - 125
Cobalt	10.4		116	117.5		mg/Kg	✱	93	75 - 125
Copper	44.3	F1	116	143.1		mg/Kg	✱	85	75 - 125
Lead	168	F1	116	270.0		mg/Kg	✱	88	75 - 125
Magnesium	4770	F1	5790	9298		mg/Kg	✱	78	75 - 125
Nickel	31.6		116	140.3		mg/Kg	✱	94	75 - 125
Potassium	2600		5790	9160		mg/Kg	✱	113	75 - 125
Silver	ND	^5-	11.6	10.05	^5-	mg/Kg	✱	87	75 - 125
Sodium	104	J F1	5790	4962		mg/Kg	✱	84	75 - 125
Thallium	ND		232	201.0		mg/Kg	✱	87	75 - 125
Vanadium	25.5		116	129.1		mg/Kg	✱	89	75 - 125
Zinc	156	^5- F1 B	116	246.2	^5-	mg/Kg	✱	78	75 - 125

Lab Sample ID: 480-231655-1 MS

Matrix: Solid

Analysis Batch: 754055

Client Sample ID: SS-1

Prep Type: Total/NA

Prep Batch: 753810

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	12.0	F1	232	206.2		mg/Kg	✱	84	75 - 125
Iron	26200		1190	25310	4	mg/Kg	✱	-77	75 - 125
Manganese	490	F2	116	691.7	4	mg/Kg	✱	174	75 - 125
Selenium	1.1	J F1	232	193.7		mg/Kg	✱	83	75 - 125

Lab Sample ID: 480-231655-1 MSD

Matrix: Solid

Analysis Batch: 753990

Client Sample ID: SS-1

Prep Type: Total/NA

Prep Batch: 753810

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	13600		1150	17550	4	mg/Kg	✱	344	75 - 125	15	20
Antimony	ND	F1	112	42.79	F1	mg/Kg	✱	38	75 - 125	17	20
Barium	141	F1	224	305.6	F1	mg/Kg	✱	73	75 - 125	16	20
Beryllium	0.83	^5-	111	87.42	^5-	mg/Kg	✱	78	75 - 125	15	20
Cadmium	0.42	F1	112	82.63	F1	mg/Kg	✱	73	75 - 125	15	20
Chromium	26.4		112	110.3		mg/Kg	✱	75	75 - 125	12	20
Cobalt	10.4		112	100.7		mg/Kg	✱	81	75 - 125	15	20
Copper	44.3	F1	112	125.2	F1	mg/Kg	✱	72	75 - 125	13	20
Lead	168	F1	112	241.3	F1	mg/Kg	✱	65	75 - 125	11	20
Magnesium	4770	F1	5610	8008	F1	mg/Kg	✱	58	75 - 125	15	20
Nickel	31.6		112	120.4		mg/Kg	✱	79	75 - 125	15	20
Potassium	2600		5600	7991		mg/Kg	✱	96	75 - 125	14	20
Silver	ND	^5-	11.2	8.56	^5-	mg/Kg	✱	76	75 - 125	16	20
Sodium	104	J F1	5600	4215	F1	mg/Kg	✱	73	75 - 125	16	20
Thallium	ND		224	172.5		mg/Kg	✱	77	75 - 125	15	20
Vanadium	25.5		112	113.1		mg/Kg	✱	78	75 - 125	13	20

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-231655-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 480-231655-1 MSD

Matrix: Solid

Analysis Batch: 753990

Client Sample ID: SS-1

Prep Type: Total/NA

Prep Batch: 753810

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Zinc	156	^5- F1 B	112	223.6	^5- F1	mg/Kg	✱	60	75 - 125	10	20

Lab Sample ID: 480-231655-1 MSD

Matrix: Solid

Analysis Batch: 754055

Client Sample ID: SS-1

Prep Type: Total/NA

Prep Batch: 753810

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	12.0	F1	224	177.9	F1	mg/Kg	✱	74	75 - 125	15	20
Iron	26200		1150	23310	4	mg/Kg	✱	-254	75 - 125	8	20
Manganese	490	F2	112	502.4	4 F2	mg/Kg	✱	11	75 - 125	32	20
Selenium	1.1	J F1	224	166.8	F1	mg/Kg	✱	74	75 - 125	15	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-753889/1-A

Matrix: Solid

Analysis Batch: 753940

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 753889

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.0047	mg/Kg		08/11/25 09:57	08/11/25 11:47	1

Lab Sample ID: LCSSRM 480-753889/2-A

Matrix: Solid

Analysis Batch: 753940

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 753889

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	24.0	18.33		mg/Kg		76.4	55.8 - 109.6

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 480-754080/1-A

Matrix: Solid

Analysis Batch: 754191

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 754080

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.99	0.48	mg/Kg		08/12/25 12:50	08/12/25 18:30	1

Lab Sample ID: LCS 480-754080/3-A

Matrix: Solid

Analysis Batch: 754191

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 754080

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.388		mg/Kg		97	29 - 122

Lab Sample ID: LCS 480-754080/4-A

Matrix: Solid

Analysis Batch: 754191

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 754080

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.237		mg/Kg		95	29 - 122

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-231655-1

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: LCSSRM 480-754080/2-A

Matrix: Solid

Analysis Batch: 754191

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 754080

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	134	82.29		mg/Kg		61.4	31.6 - 131.3

Lab Sample ID: 480-231655-4 MS

Matrix: Solid

Analysis Batch: 754191

Client Sample ID: SS-4

Prep Type: Total/NA

Prep Batch: 754080

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	3.8	F1	1.22	3.14	F1	mg/Kg	✱	-54	85 - 115

QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-231655-1

GC/MS Semi VOA

Prep Batch: 753801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-231655-1	SS-1	Total/NA	Solid	3546	
480-231655-2	SS-2	Total/NA	Solid	3546	
480-231655-3	SS-3	Total/NA	Solid	3546	
480-231655-4	SS-4	Total/NA	Solid	3546	
MB 480-753801/1-A	Method Blank	Total/NA	Solid	3546	
LCS 480-753801/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 753867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-231655-1	SS-1	Total/NA	Solid	8270D	753801
480-231655-2	SS-2	Total/NA	Solid	8270D	753801
480-231655-3	SS-3	Total/NA	Solid	8270D	753801
480-231655-4	SS-4	Total/NA	Solid	8270D	753801
MB 480-753801/1-A	Method Blank	Total/NA	Solid	8270D	753801
LCS 480-753801/2-A	Lab Control Sample	Total/NA	Solid	8270D	753801

Metals

Prep Batch: 753810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-231655-1	SS-1	Total/NA	Solid	3050B	
480-231655-2	SS-2	Total/NA	Solid	3050B	
480-231655-3	SS-3	Total/NA	Solid	3050B	
480-231655-4	SS-4	Total/NA	Solid	3050B	
MB 480-753810/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-753810/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-231655-1 MS	SS-1	Total/NA	Solid	3050B	
480-231655-1 MSD	SS-1	Total/NA	Solid	3050B	

Prep Batch: 753889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-231655-1	SS-1	Total/NA	Solid	7471B	
480-231655-2	SS-2	Total/NA	Solid	7471B	
480-231655-3	SS-3	Total/NA	Solid	7471B	
480-231655-4	SS-4	Total/NA	Solid	7471B	
MB 480-753889/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-753889/2-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 753940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-231655-1	SS-1	Total/NA	Solid	7471B	753889
480-231655-2	SS-2	Total/NA	Solid	7471B	753889
480-231655-3	SS-3	Total/NA	Solid	7471B	753889
480-231655-4	SS-4	Total/NA	Solid	7471B	753889
MB 480-753889/1-A	Method Blank	Total/NA	Solid	7471B	753889
LCSSRM 480-753889/2-A	Lab Control Sample	Total/NA	Solid	7471B	753889

Analysis Batch: 753990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-231655-1	SS-1	Total/NA	Solid	6010D	753810
480-231655-2	SS-2	Total/NA	Solid	6010D	753810

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QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-231655-1

Metals (Continued)

Analysis Batch: 753990 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-231655-3	SS-3	Total/NA	Solid	6010D	753810
480-231655-4	SS-4	Total/NA	Solid	6010D	753810
MB 480-753810/1-A	Method Blank	Total/NA	Solid	6010D	753810
LCSSRM 480-753810/2-A	Lab Control Sample	Total/NA	Solid	6010D	753810
480-231655-1 MS	SS-1	Total/NA	Solid	6010D	753810
480-231655-1 MSD	SS-1	Total/NA	Solid	6010D	753810

Analysis Batch: 754055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-231655-1	SS-1	Total/NA	Solid	6010D	753810
480-231655-2	SS-2	Total/NA	Solid	6010D	753810
480-231655-3	SS-3	Total/NA	Solid	6010D	753810
480-231655-3	SS-3	Total/NA	Solid	6010D	753810
480-231655-4	SS-4	Total/NA	Solid	6010D	753810
MB 480-753810/1-A	Method Blank	Total/NA	Solid	6010D	753810
LCSSRM 480-753810/2-A	Lab Control Sample	Total/NA	Solid	6010D	753810
480-231655-1 MS	SS-1	Total/NA	Solid	6010D	753810
480-231655-1 MSD	SS-1	Total/NA	Solid	6010D	753810

General Chemistry

Analysis Batch: 753811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-231655-1	SS-1	Total/NA	Solid	Moisture	
480-231655-2	SS-2	Total/NA	Solid	Moisture	
480-231655-3	SS-3	Total/NA	Solid	Moisture	
480-231655-4	SS-4	Total/NA	Solid	Moisture	

Prep Batch: 754080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-231655-1	SS-1	Total/NA	Solid	9012B	
480-231655-2	SS-2	Total/NA	Solid	9012B	
480-231655-3	SS-3	Total/NA	Solid	9012B	
480-231655-4	SS-4	Total/NA	Solid	9012B	
MB 480-754080/1-A	Method Blank	Total/NA	Solid	9012B	
LCS 480-754080/3-A	Lab Control Sample	Total/NA	Solid	9012B	
LCS 480-754080/4-A	Lab Control Sample	Total/NA	Solid	9012B	
LCSSRM 480-754080/2-A	Lab Control Sample	Total/NA	Solid	9012B	
480-231655-4 MS	SS-4	Total/NA	Solid	9012B	

Analysis Batch: 754191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-231655-1	SS-1	Total/NA	Solid	9012B	754080
480-231655-2	SS-2	Total/NA	Solid	9012B	754080
480-231655-3	SS-3	Total/NA	Solid	9012B	754080
480-231655-4	SS-4	Total/NA	Solid	9012B	754080
MB 480-754080/1-A	Method Blank	Total/NA	Solid	9012B	754080
LCS 480-754080/3-A	Lab Control Sample	Total/NA	Solid	9012B	754080
LCS 480-754080/4-A	Lab Control Sample	Total/NA	Solid	9012B	754080
LCSSRM 480-754080/2-A	Lab Control Sample	Total/NA	Solid	9012B	754080
480-231655-4 MS	SS-4	Total/NA	Solid	9012B	754080

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Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-231655-1

Client Sample ID: SS-1

Lab Sample ID: 480-231655-1

Date Collected: 08/07/25 13:00

Matrix: Solid

Date Received: 08/07/25 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	753811	AF	EET BUF	08/08/25 15:25

Client Sample ID: SS-1

Lab Sample ID: 480-231655-1

Date Collected: 08/07/25 13:00

Matrix: Solid

Date Received: 08/07/25 15:00

Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			753801	LSC	EET BUF	08/08/25 13:44
Total/NA	Analysis	8270D		10	753867	JMM	EET BUF	08/11/25 15:46
Total/NA	Prep	3050B			753810	EMO	EET BUF	08/11/25 09:53
Total/NA	Analysis	6010D		1	753990	MP	EET BUF	08/11/25 21:00
Total/NA	Prep	3050B			753810	EMO	EET BUF	08/11/25 09:53
Total/NA	Analysis	6010D		1	754055	MP	EET BUF	08/12/25 11:49
Total/NA	Prep	7471B			753889	ESB	EET BUF	08/11/25 09:57
Total/NA	Analysis	7471B		1	753940	ESB	EET BUF	08/11/25 12:06
Total/NA	Prep	9012B			754080	AM	EET BUF	08/12/25 12:50
Total/NA	Analysis	9012B		1	754191	AM	EET BUF	08/12/25 18:46

Client Sample ID: SS-2

Lab Sample ID: 480-231655-2

Date Collected: 08/07/25 13:15

Matrix: Solid

Date Received: 08/07/25 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	753811	AF	EET BUF	08/08/25 15:25

Client Sample ID: SS-2

Lab Sample ID: 480-231655-2

Date Collected: 08/07/25 13:15

Matrix: Solid

Date Received: 08/07/25 15:00

Percent Solids: 89.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			753801	LSC	EET BUF	08/08/25 13:44
Total/NA	Analysis	8270D		10	753867	JMM	EET BUF	08/11/25 16:11
Total/NA	Prep	3050B			753810	EMO	EET BUF	08/11/25 09:53
Total/NA	Analysis	6010D		1	753990	MP	EET BUF	08/11/25 21:10
Total/NA	Prep	3050B			753810	EMO	EET BUF	08/11/25 09:53
Total/NA	Analysis	6010D		1	754055	MP	EET BUF	08/12/25 12:05
Total/NA	Prep	7471B			753889	ESB	EET BUF	08/11/25 09:57
Total/NA	Analysis	7471B		1	753940	ESB	EET BUF	08/11/25 12:08
Total/NA	Prep	9012B			754080	AM	EET BUF	08/12/25 12:50
Total/NA	Analysis	9012B		1	754191	AM	EET BUF	08/12/25 18:46

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-231655-1

Client Sample ID: SS-3

Lab Sample ID: 480-231655-3

Date Collected: 08/07/25 13:30

Matrix: Solid

Date Received: 08/07/25 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	753811	AF	EET BUF	08/08/25 15:25

Client Sample ID: SS-3

Lab Sample ID: 480-231655-3

Date Collected: 08/07/25 13:30

Matrix: Solid

Date Received: 08/07/25 15:00

Percent Solids: 96.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			753801	LSC	EET BUF	08/08/25 13:44
Total/NA	Analysis	8270D		1	753867	JMM	EET BUF	08/11/25 16:35
Total/NA	Prep	3050B			753810	EMO	EET BUF	08/11/25 09:53
Total/NA	Analysis	6010D		1	753990	MP	EET BUF	08/11/25 21:12
Total/NA	Prep	3050B			753810	EMO	EET BUF	08/11/25 09:53
Total/NA	Analysis	6010D		1	754055	MP	EET BUF	08/12/25 12:07
Total/NA	Prep	3050B			753810	EMO	EET BUF	08/11/25 09:53
Total/NA	Analysis	6010D		5	754055	MP	EET BUF	08/12/25 12:09
Total/NA	Prep	7471B			753889	ESB	EET BUF	08/11/25 09:57
Total/NA	Analysis	7471B		1	753940	ESB	EET BUF	08/11/25 12:09
Total/NA	Prep	9012B			754080	AM	EET BUF	08/12/25 12:50
Total/NA	Analysis	9012B		1	754191	AM	EET BUF	08/12/25 18:47

Client Sample ID: SS-4

Lab Sample ID: 480-231655-4

Date Collected: 08/07/25 13:45

Matrix: Solid

Date Received: 08/07/25 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	753811	AF	EET BUF	08/08/25 15:25

Client Sample ID: SS-4

Lab Sample ID: 480-231655-4

Date Collected: 08/07/25 13:45

Matrix: Solid

Date Received: 08/07/25 15:00

Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			753801	LSC	EET BUF	08/08/25 13:44
Total/NA	Analysis	8270D		5	753867	JMM	EET BUF	08/11/25 17:00
Total/NA	Prep	3050B			753810	EMO	EET BUF	08/11/25 09:53
Total/NA	Analysis	6010D		1	753990	MP	EET BUF	08/11/25 21:21
Total/NA	Prep	3050B			753810	EMO	EET BUF	08/11/25 09:53
Total/NA	Analysis	6010D		1	754055	MP	EET BUF	08/12/25 12:11
Total/NA	Prep	7471B			753889	ESB	EET BUF	08/11/25 09:57
Total/NA	Analysis	7471B		1	753940	ESB	EET BUF	08/11/25 12:10
Total/NA	Prep	9012B			754080	AM	EET BUF	08/12/25 12:50
Total/NA	Analysis	9012B		1	754191	AM	EET BUF	08/12/25 18:50

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Eurofins Buffalo

Accreditation/Certification Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-231655-1

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-231655-1

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET BUF
6010D	Metals (ICP)	SW846	EET BUF
7471B	Mercury (CVAA)	SW846	EET BUF
9012B	Cyanide, Total and/or Amenable	SW846	EET BUF
Moisture	Percent Moisture	EPA	EET BUF
3050B	Preparation, Metals	SW846	EET BUF
3546	Microwave Extraction	SW846	EET BUF
7471B	Preparation, Mercury	SW846	EET BUF
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-231655-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
480-231655-1	SS-1	Solid	08/07/25 13:00	08/07/25 15:00	New York
480-231655-2	SS-2	Solid	08/07/25 13:15	08/07/25 15:00	New York
480-231655-3	SS-3	Solid	08/07/25 13:30	08/07/25 15:00	New York
480-231655-4	SS-4	Solid	08/07/25 13:45	08/07/25 15:00	New York

- 1
- 2
- 3
- 4
- 5
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- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax:

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-231655-1

Login Number: 231655

List Source: Eurofins Buffalo

List Number: 1

Creator: Stapleton, Kaitlyn

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.6 IR#SC ice
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	Brydges Engineering in Environment & Energy
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Paul Staub
Brydges Engineering in Environment & Energy DPC
960 Busti Ave
Suite B-150
Buffalo, New York 14213

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JOB DESCRIPTION

166 E 4th Street

JOB NUMBER

480-229870-1

Eurofins Buffalo

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Definitions/Glossary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

LCMS

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^5-	Linear Range Check (LRC) is outside acceptance limits, low biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)

Definitions/Glossary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Brydges Engineering in Environment & Energy DPC
Project: 166 E 4th Street

Job ID: 480-229870-1

Job ID: 480-229870-1

Eurofins Buffalo

Job Narrative 480-229870-1

Receipt

The samples were received on 6/3/2025 9:42 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.9° C.

GC/MS VOA

Method 8260C: The method blank for preparation batch contained Methylene chloride above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed. The following associated samples are impacted: RI-MW-2 (480-229870-1), RI-MW-5 (480-229870-2) and Trip Blank (480-229870-3)

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-747817 were outside control limits for one or more analytes. See QC Sample Results for detail. The following associated samples are impacted: RI-MW-5 MS (480-229870-2[MS]) and RI-MW-5 MSD (480-229870-2[MSD])

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

LCMS

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Client Sample ID: RI-MW-2

Lab Sample ID: 480-229870-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	9.7	J	10	3.0	ug/L	1			8260C	Total/NA
Methylcyclohexane	1.6		1.0	0.16	ug/L	1			8260C	Total/NA
Acetophenone	0.78	J	5.0	0.54	ug/L	1			8270D	Total/NA
Di-n-butyl phthalate	0.36	J	5.0	0.31	ug/L	1			8270D	Total/NA
Perfluorobutanoic acid (PFBA)	2.9	J	3.7	1.0	ng/L	1			1633	Total/NA
Perfluoropentanoic acid (PFPeA)	0.86	J	1.9	0.56	ng/L	1			1633	Total/NA
Perfluorohexanoic acid (PFHxA)	1.1	J	1.9	0.47	ng/L	1			1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.96	J	1.9	0.75	ng/L	1			1633	Total/NA
Perfluorooctanoic acid (PFOA)	1.8	J	1.9	0.84	ng/L	1			1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.1	J	1.9	0.47	ng/L	1			1633	Total/NA
Aluminum	0.17	J	0.20	0.060	mg/L	1			6010D	Total/NA
Barium	0.079		0.0020	0.00070	mg/L	1			6010D	Total/NA
Calcium	140	B	0.50	0.10	mg/L	1			6010D	Total/NA
Cobalt	0.00063	J	0.0040	0.00063	mg/L	1			6010D	Total/NA
Iron	0.77		0.050	0.019	mg/L	1			6010D	Total/NA
Magnesium	16.3	B	0.20	0.043	mg/L	1			6010D	Total/NA
Manganese	0.23	B	0.0030	0.00040	mg/L	1			6010D	Total/NA
Nickel	0.0018	J ^5-	0.010	0.0013	mg/L	1			6010D	Total/NA
Potassium	13.4		0.50	0.10	mg/L	1			6010D	Total/NA
Sodium	59.8		1.0	0.32	mg/L	1			6010D	Total/NA
Arsenic	0.0019		0.0010	0.00039	mg/L	1			6020B	Total/NA
Selenium	0.00068	J	0.0010	0.00044	mg/L	1			6020B	Total/NA
Cyanide, Total	0.0096	J B	0.010	0.0041	mg/L	1			9012B	Total/NA

Client Sample ID: RI-MW-5

Lab Sample ID: 480-229870-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	51		10	3.0	ug/L	1			8260C	Total/NA
Benzene	0.58	J	1.0	0.41	ug/L	1			8260C	Total/NA
Carbon disulfide	0.45	J	1.0	0.19	ug/L	1			8260C	Total/NA
Cyclohexane	1.7		1.0	0.18	ug/L	1			8260C	Total/NA
Methylcyclohexane	1.7		1.0	0.16	ug/L	1			8260C	Total/NA
Toluene	0.92	J	1.0	0.51	ug/L	1			8260C	Total/NA
1,4-Dioxane	0.15	J	0.20	0.10	ug/L	1			8270D SIM ID	Total/NA
4-Methylphenol	0.55	J	10	0.36	ug/L	1			8270D	Total/NA
Acetophenone	1.6	J	5.0	0.54	ug/L	1			8270D	Total/NA
Di-n-butyl phthalate	0.65	J	5.0	0.31	ug/L	1			8270D	Total/NA
Diethyl phthalate	0.41	J	5.0	0.22	ug/L	1			8270D	Total/NA
alpha-BHC	0.0087	J	0.050	0.0077	ug/L	1			8081B	Total/NA
Methoxychlor	0.016	J	0.050	0.014	ug/L	1			8081B	Total/NA
Perfluorobutanoic acid (PFBA)	1.4	J	3.2	0.89	ng/L	1			1633	Total/NA
Perfluoropentanoic acid (PFPeA)	0.55	J	1.6	0.49	ng/L	1			1633	Total/NA
Perfluorohexanoic acid (PFHxA)	3.3		1.6	0.40	ng/L	1			1633	Total/NA
Perfluorooctanoic acid (PFOA)	1.3	J	1.6	0.73	ng/L	1			1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.46	J	1.6	0.40	ng/L	1			1633	Total/NA
Aluminum	0.068	J	0.20	0.060	mg/L	1			6010D	Total/NA
Barium	0.15		0.0020	0.00070	mg/L	1			6010D	Total/NA
Calcium	178	B	0.50	0.10	mg/L	1			6010D	Total/NA
Cobalt	0.0033	J	0.0040	0.00063	mg/L	1			6010D	Total/NA
Copper	0.0017	J	0.010	0.0016	mg/L	1			6010D	Total/NA
Iron	0.19		0.050	0.019	mg/L	1			6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Client Sample ID: RI-MW-5 (Continued)

Lab Sample ID: 480-229870-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	43.8	B	0.20	0.043	mg/L	1		6010D	Total/NA
Manganese	2.6	B	0.0030	0.00040	mg/L	1		6010D	Total/NA
Nickel	0.0057	J ^5-	0.010	0.0013	mg/L	1		6010D	Total/NA
Potassium	18.0		0.50	0.10	mg/L	1		6010D	Total/NA
Sodium	14.5	F1 F2	1.0	0.32	mg/L	1		6010D	Total/NA
Zinc	0.0033	J ^5- B	0.010	0.0015	mg/L	1		6010D	Total/NA
Arsenic	0.0011		0.0010	0.00039	mg/L	1		6020B	Total/NA
Selenium	0.00056	J	0.0010	0.00044	mg/L	1		6020B	Total/NA
Cyanide, Total	0.0095	J B	0.010	0.0041	mg/L	1		9012B	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 480-229870-3

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Client Sample ID: RI-MW-2

Lab Sample ID: 480-229870-1

Date Collected: 06/02/25 13:00

Matrix: Water

Date Received: 06/03/25 09:42

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/03/25 20:56	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/03/25 20:56	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/03/25 20:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/03/25 20:56	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/03/25 20:56	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/03/25 20:56	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/03/25 20:56	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/03/25 20:56	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/03/25 20:56	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/03/25 20:56	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/03/25 20:56	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/03/25 20:56	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/03/25 20:56	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/03/25 20:56	1
2-Hexanone	ND		5.0	1.2	ug/L			06/03/25 20:56	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/03/25 20:56	1
Acetone	9.7	J	10	3.0	ug/L			06/03/25 20:56	1
Benzene	ND		1.0	0.41	ug/L			06/03/25 20:56	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/03/25 20:56	1
Bromoform	ND		1.0	0.26	ug/L			06/03/25 20:56	1
Bromomethane	ND		1.0	0.69	ug/L			06/03/25 20:56	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/03/25 20:56	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/03/25 20:56	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/03/25 20:56	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/03/25 20:56	1
Chloroethane	ND		1.0	0.32	ug/L			06/03/25 20:56	1
Chloroform	ND		1.0	0.34	ug/L			06/03/25 20:56	1
Chloromethane	ND		1.0	0.35	ug/L			06/03/25 20:56	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/03/25 20:56	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/03/25 20:56	1
Cyclohexane	ND		1.0	0.18	ug/L			06/03/25 20:56	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/03/25 20:56	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/03/25 20:56	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/03/25 20:56	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/03/25 20:56	1
Methyl acetate	ND		2.5	1.3	ug/L			06/03/25 20:56	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/03/25 20:56	1
Methylcyclohexane	1.6		1.0	0.16	ug/L			06/03/25 20:56	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/03/25 20:56	1
Styrene	ND		1.0	0.73	ug/L			06/03/25 20:56	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/03/25 20:56	1
Toluene	ND		1.0	0.51	ug/L			06/03/25 20:56	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/03/25 20:56	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/03/25 20:56	1
Trichloroethene	ND		1.0	0.46	ug/L			06/03/25 20:56	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/03/25 20:56	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/03/25 20:56	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/03/25 20:56	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Client Sample ID: RI-MW-2

Lab Sample ID: 480-229870-1

Date Collected: 06/02/25 13:00

Matrix: Water

Date Received: 06/03/25 09:42

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		06/03/25 20:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120					06/03/25 20:56	1
1,2-Dichloroethane-d4 (Surr)	100		77 - 120					06/03/25 20:56	1
4-Bromofluorobenzene (Surr)	102		73 - 120					06/03/25 20:56	1
Dibromofluoromethane (Surr)	102		75 - 123					06/03/25 20:56	1

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		06/05/25 13:38	06/06/25 12:49	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	27		15 - 110				06/05/25 13:38	06/06/25 12:49	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		06/06/25 09:15	06/09/25 20:21	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		06/06/25 09:15	06/09/25 20:21	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		06/06/25 09:15	06/09/25 20:21	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		06/06/25 09:15	06/09/25 20:21	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		06/06/25 09:15	06/09/25 20:21	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		06/06/25 09:15	06/09/25 20:21	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		06/06/25 09:15	06/09/25 20:21	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		06/06/25 09:15	06/09/25 20:21	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		06/06/25 09:15	06/09/25 20:21	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		06/06/25 09:15	06/09/25 20:21	1
2-Chlorophenol	ND		5.0	0.53	ug/L		06/06/25 09:15	06/09/25 20:21	1
2-Methylphenol	ND		5.0	0.40	ug/L		06/06/25 09:15	06/09/25 20:21	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		06/06/25 09:15	06/09/25 20:21	1
2-Nitroaniline	ND		10	0.42	ug/L		06/06/25 09:15	06/09/25 20:21	1
2-Nitrophenol	ND		5.0	0.48	ug/L		06/06/25 09:15	06/09/25 20:21	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		06/06/25 09:15	06/09/25 20:21	1
3-Nitroaniline	ND		10	0.48	ug/L		06/06/25 09:15	06/09/25 20:21	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		06/06/25 09:15	06/09/25 20:21	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		06/06/25 09:15	06/09/25 20:21	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		06/06/25 09:15	06/09/25 20:21	1
4-Chloroaniline	ND		5.0	0.59	ug/L		06/06/25 09:15	06/09/25 20:21	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		06/06/25 09:15	06/09/25 20:21	1
4-Methylphenol	ND		10	0.36	ug/L		06/06/25 09:15	06/09/25 20:21	1
4-Nitroaniline	ND		10	0.25	ug/L		06/06/25 09:15	06/09/25 20:21	1
4-Nitrophenol	ND		10	1.5	ug/L		06/06/25 09:15	06/09/25 20:21	1
Acenaphthene	ND		5.0	0.41	ug/L		06/06/25 09:15	06/09/25 20:21	1
Acenaphthylene	ND		5.0	0.38	ug/L		06/06/25 09:15	06/09/25 20:21	1
Acetophenone	0.78	J	5.0	0.54	ug/L		06/06/25 09:15	06/09/25 20:21	1
Anthracene	ND		5.0	0.28	ug/L		06/06/25 09:15	06/09/25 20:21	1
Atrazine	ND		5.0	0.46	ug/L		06/06/25 09:15	06/09/25 20:21	1
Benzaldehyde	ND		5.0	0.27	ug/L		06/06/25 09:15	06/09/25 20:21	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		06/06/25 09:15	06/09/25 20:21	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		06/06/25 09:15	06/09/25 20:21	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		06/06/25 09:15	06/09/25 20:21	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Client Sample ID: RI-MW-2

Lab Sample ID: 480-229870-1

Date Collected: 06/02/25 13:00

Matrix: Water

Date Received: 06/03/25 09:42

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		06/06/25 09:15	06/09/25 20:21	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		06/06/25 09:15	06/09/25 20:21	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		06/06/25 09:15	06/09/25 20:21	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		06/06/25 09:15	06/09/25 20:21	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		06/06/25 09:15	06/09/25 20:21	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		06/06/25 09:15	06/09/25 20:21	1
Caprolactam	ND		5.0	2.2	ug/L		06/06/25 09:15	06/09/25 20:21	1
Carbazole	ND		5.0	0.30	ug/L		06/06/25 09:15	06/09/25 20:21	1
Chrysene	ND		5.0	0.33	ug/L		06/06/25 09:15	06/09/25 20:21	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		06/06/25 09:15	06/09/25 20:21	1
Di-n-butyl phthalate	0.36	J	5.0	0.31	ug/L		06/06/25 09:15	06/09/25 20:21	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		06/06/25 09:15	06/09/25 20:21	1
Dibenzofuran	ND		10	0.51	ug/L		06/06/25 09:15	06/09/25 20:21	1
Diethyl phthalate	ND		5.0	0.22	ug/L		06/06/25 09:15	06/09/25 20:21	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		06/06/25 09:15	06/09/25 20:21	1
Fluoranthene	ND		5.0	0.40	ug/L		06/06/25 09:15	06/09/25 20:21	1
Fluorene	ND		5.0	0.36	ug/L		06/06/25 09:15	06/09/25 20:21	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		06/06/25 09:15	06/09/25 20:21	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		06/06/25 09:15	06/09/25 20:21	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		06/06/25 09:15	06/09/25 20:21	1
Hexachloroethane	ND		5.0	0.59	ug/L		06/06/25 09:15	06/09/25 20:21	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		06/06/25 09:15	06/09/25 20:21	1
Isophorone	ND		5.0	0.43	ug/L		06/06/25 09:15	06/09/25 20:21	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		06/06/25 09:15	06/09/25 20:21	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		06/06/25 09:15	06/09/25 20:21	1
Naphthalene	ND		5.0	0.76	ug/L		06/06/25 09:15	06/09/25 20:21	1
Nitrobenzene	ND		5.0	0.29	ug/L		06/06/25 09:15	06/09/25 20:21	1
Pentachlorophenol	ND		10	2.2	ug/L		06/06/25 09:15	06/09/25 20:21	1
Phenanthrene	ND		5.0	0.44	ug/L		06/06/25 09:15	06/09/25 20:21	1
Phenol	ND		5.0	0.39	ug/L		06/06/25 09:15	06/09/25 20:21	1
Pyrene	ND		5.0	0.34	ug/L		06/06/25 09:15	06/09/25 20:21	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	2.7	T J	ug/L		4.63	N/A	06/06/25 09:15	06/09/25 20:21	1
Unknown	2.2	T J	ug/L		4.73	N/A	06/06/25 09:15	06/09/25 20:21	1
Unknown	35	T J	ug/L		4.84	N/A	06/06/25 09:15	06/09/25 20:21	1
Unknown	3.2	T J	ug/L		4.89	N/A	06/06/25 09:15	06/09/25 20:21	1
p-Xylene	8.6	T J N	ug/L		5.17	106-42-3	06/06/25 09:15	06/09/25 20:21	1
Cyclohexanone	2.3	T J N	ug/L		5.38	108-94-1	06/06/25 09:15	06/09/25 20:21	1
Unknown	1.7	T J	ug/L		5.54	N/A	06/06/25 09:15	06/09/25 20:21	1
Unknown	2.3	T J	ug/L		5.77	N/A	06/06/25 09:15	06/09/25 20:21	1
Unknown	2.7	T J	ug/L		9.36	N/A	06/06/25 09:15	06/09/25 20:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	90		29 - 129	06/06/25 09:15	06/09/25 20:21	1
Phenol-d5 (Surr)	43		10 - 120	06/06/25 09:15	06/09/25 20:21	1
p-Terphenyl-d14 (Surr)	108		33 - 132	06/06/25 09:15	06/09/25 20:21	1
2,4,6-Tribromophenol (Surr)	119		25 - 144	06/06/25 09:15	06/09/25 20:21	1
2-Fluorobiphenyl (Surr)	102		53 - 126	06/06/25 09:15	06/09/25 20:21	1
2-Fluorophenol (Surr)	66		24 - 120	06/06/25 09:15	06/09/25 20:21	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Client Sample ID: RI-MW-2

Lab Sample ID: 480-229870-1

Date Collected: 06/02/25 13:00

Matrix: Water

Date Received: 06/03/25 09:42

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		06/06/25 13:24	06/09/25 11:01	1
4,4'-DDE	ND		0.050	0.012	ug/L		06/06/25 13:24	06/09/25 11:01	1
4,4'-DDT	ND		0.050	0.011	ug/L		06/06/25 13:24	06/09/25 11:01	1
Aldrin	ND		0.050	0.0081	ug/L		06/06/25 13:24	06/09/25 11:01	1
alpha-BHC	ND		0.050	0.0077	ug/L		06/06/25 13:24	06/09/25 11:01	1
cis-Chlordane	ND		0.050	0.015	ug/L		06/06/25 13:24	06/09/25 11:01	1
beta-BHC	ND		0.050	0.025	ug/L		06/06/25 13:24	06/09/25 11:01	1
delta-BHC	ND		0.050	0.010	ug/L		06/06/25 13:24	06/09/25 11:01	1
Dieldrin	ND		0.050	0.0098	ug/L		06/06/25 13:24	06/09/25 11:01	1
Endosulfan I	ND		0.050	0.011	ug/L		06/06/25 13:24	06/09/25 11:01	1
Endosulfan II	ND		0.050	0.012	ug/L		06/06/25 13:24	06/09/25 11:01	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		06/06/25 13:24	06/09/25 11:01	1
Endrin	ND		0.050	0.014	ug/L		06/06/25 13:24	06/09/25 11:01	1
Endrin aldehyde	ND		0.050	0.016	ug/L		06/06/25 13:24	06/09/25 11:01	1
Endrin ketone	ND		0.050	0.012	ug/L		06/06/25 13:24	06/09/25 11:01	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		06/06/25 13:24	06/09/25 11:01	1
trans-Chlordane	ND		0.050	0.011	ug/L		06/06/25 13:24	06/09/25 11:01	1
Heptachlor	ND		0.050	0.0085	ug/L		06/06/25 13:24	06/09/25 11:01	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		06/06/25 13:24	06/09/25 11:01	1
Methoxychlor	ND		0.050	0.014	ug/L		06/06/25 13:24	06/09/25 11:01	1
Toxaphene	ND		0.50	0.12	ug/L		06/06/25 13:24	06/09/25 11:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	73		10 - 120	06/06/25 13:24	06/09/25 11:01	1
DCB Decachlorobiphenyl	63		10 - 120	06/06/25 13:24	06/09/25 11:01	1
Tetrachloro-m-xylene	78		10 - 120	06/06/25 13:24	06/09/25 11:01	1
Tetrachloro-m-xylene	76		10 - 120	06/06/25 13:24	06/09/25 11:01	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		06/09/25 08:25	06/10/25 11:19	1
PCB-1221	ND		0.50	0.18	ug/L		06/09/25 08:25	06/10/25 11:19	1
PCB-1232	ND		0.50	0.18	ug/L		06/09/25 08:25	06/10/25 11:19	1
PCB-1242	ND		0.50	0.18	ug/L		06/09/25 08:25	06/10/25 11:19	1
PCB-1248	ND		0.50	0.18	ug/L		06/09/25 08:25	06/10/25 11:19	1
PCB-1254	ND		0.50	0.25	ug/L		06/09/25 08:25	06/10/25 11:19	1
PCB-1260	ND		0.50	0.25	ug/L		06/09/25 08:25	06/10/25 11:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	95		10 - 145	06/09/25 08:25	06/10/25 11:19	1
Tetrachloro-m-xylene	85		10 - 145	06/09/25 08:25	06/10/25 11:19	1
DCB Decachlorobiphenyl	63		10 - 123	06/09/25 08:25	06/10/25 11:19	1
DCB Decachlorobiphenyl	51		10 - 123	06/09/25 08:25	06/10/25 11:19	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	2.9	J	3.7	1.0	ng/L		06/06/25 08:29	06/07/25 16:34	1
Perfluoropentanoic acid (PFPeA)	0.86	J	1.9	0.56	ng/L		06/06/25 08:29	06/07/25 16:34	1
Perfluorohexanoic acid (PFHxA)	1.1	J	1.9	0.47	ng/L		06/06/25 08:29	06/07/25 16:34	1
Perfluoroheptanoic acid (PFHpA)	0.96	J	1.9	0.75	ng/L		06/06/25 08:29	06/07/25 16:34	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Client Sample ID: RI-MW-2

Lab Sample ID: 480-229870-1

Date Collected: 06/02/25 13:00

Matrix: Water

Date Received: 06/03/25 09:42

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	1.8	J	1.9	0.84	ng/L		06/06/25 08:29	06/07/25 16:34	1
Perfluorononanoic acid (PFNA)	ND		1.9	0.47	ng/L		06/06/25 08:29	06/07/25 16:34	1
Perfluorodecanoic acid (PFDA)	ND		1.9	0.47	ng/L		06/06/25 08:29	06/07/25 16:34	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.47	ng/L		06/06/25 08:29	06/07/25 16:34	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.47	ng/L		06/06/25 08:29	06/07/25 16:34	1
Perfluorotridecanoic acid (PFTrDA)	ND		1.9	0.47	ng/L		06/06/25 08:29	06/07/25 16:34	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.9	0.47	ng/L		06/06/25 08:29	06/07/25 16:34	1
Perfluorobutanesulfonic acid (PFBS)	1.1	J	1.9	0.47	ng/L		06/06/25 08:29	06/07/25 16:34	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.9	0.47	ng/L		06/06/25 08:29	06/07/25 16:34	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.9	0.75	ng/L		06/06/25 08:29	06/07/25 16:34	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.9	0.47	ng/L		06/06/25 08:29	06/07/25 16:34	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.9	0.47	ng/L		06/06/25 08:29	06/07/25 16:34	1
Perfluorononanesulfonic acid (PFNS)	ND		1.9	0.47	ng/L		06/06/25 08:29	06/07/25 16:34	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.47	ng/L		06/06/25 08:29	06/07/25 16:34	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.9	0.56	ng/L		06/06/25 08:29	06/07/25 16:34	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		3.7	0.93	ng/L		06/06/25 08:29	06/07/25 16:34	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		3.7	0.93	ng/L		06/06/25 08:29	06/07/25 16:34	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		3.7	0.93	ng/L		06/06/25 08:29	06/07/25 16:34	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.9	0.47	ng/L		06/06/25 08:29	06/07/25 16:34	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.9	0.47	ng/L		06/06/25 08:29	06/07/25 16:34	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.9	0.47	ng/L		06/06/25 08:29	06/07/25 16:34	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.9	0.47	ng/L		06/06/25 08:29	06/07/25 16:34	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.9	0.47	ng/L		06/06/25 08:29	06/07/25 16:34	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		9.3	2.3	ng/L		06/06/25 08:29	06/07/25 16:34	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		9.3	2.3	ng/L		06/06/25 08:29	06/07/25 16:34	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.9	0.70	ng/L		06/06/25 08:29	06/07/25 16:34	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9	0.47	ng/L		06/06/25 08:29	06/07/25 16:34	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.9	0.47	ng/L		06/06/25 08:29	06/07/25 16:34	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.9	0.47	ng/L		06/06/25 08:29	06/07/25 16:34	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.9	0.47	ng/L		06/06/25 08:29	06/07/25 16:34	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	ND		1.9	0.47	ng/L		06/06/25 08:29	06/07/25 16:34	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	ND		1.9	0.47	ng/L		06/06/25 08:29	06/07/25 16:34	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.9	0.47	ng/L		06/06/25 08:29	06/07/25 16:34	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Client Sample ID: RI-MW-2

Lab Sample ID: 480-229870-1

Date Collected: 06/02/25 13:00

Matrix: Water

Date Received: 06/03/25 09:42

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		3.7	0.93	ng/L		06/06/25 08:29	06/07/25 16:34	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		9.3	2.6	ng/L		06/06/25 08:29	06/07/25 16:34	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		9.3	2.3	ng/L		06/06/25 08:29	06/07/25 16:34	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4-PFBA	102		5 - 130				06/06/25 08:29	06/07/25 16:34	1
13C5-PFPeA	104		40 - 130				06/06/25 08:29	06/07/25 16:34	1
13C5-PFHxA	103		40 - 130				06/06/25 08:29	06/07/25 16:34	1
13C4-PFHpA	103		40 - 130				06/06/25 08:29	06/07/25 16:34	1
13C8-PFOA	98.0		40 - 130				06/06/25 08:29	06/07/25 16:34	1
13C9-PFNA	105		40 - 130				06/06/25 08:29	06/07/25 16:34	1
13C6-PFDA	92.7		40 - 130				06/06/25 08:29	06/07/25 16:34	1
13C7-PFUnA	96.2		30 - 130				06/06/25 08:29	06/07/25 16:34	1
13C2-PFTeDA	94.8		10 - 130				06/06/25 08:29	06/07/25 16:34	1
13C3-PFBS	112		40 - 135				06/06/25 08:29	06/07/25 16:34	1
13C3-PFHxS	105		40 - 130				06/06/25 08:29	06/07/25 16:34	1
13C8-PFOS	106		40 - 130				06/06/25 08:29	06/07/25 16:34	1
13C8-PFOSA	99.0		40 - 130				06/06/25 08:29	06/07/25 16:34	1
d3-NMeFOSAA	108		40 - 170				06/06/25 08:29	06/07/25 16:34	1
d5-NEtFOSAA	101		25 - 135				06/06/25 08:29	06/07/25 16:34	1
13C2 4:2 FTS	179		40 - 200				06/06/25 08:29	06/07/25 16:34	1
13C2 6:2 FTS	136		40 - 200				06/06/25 08:29	06/07/25 16:34	1
13C2 8:2 FTS	117		40 - 300				06/06/25 08:29	06/07/25 16:34	1
13C3-HFPO-DA	99.0		40 - 130				06/06/25 08:29	06/07/25 16:34	1
D7-NMeFOSE	82.5		10 - 130				06/06/25 08:29	06/07/25 16:34	1
D9-NEtFOSE	74.8		10 - 130				06/06/25 08:29	06/07/25 16:34	1
d5-NEtPFOSA	83.7		10 - 130				06/06/25 08:29	06/07/25 16:34	1
d3-NMePFOSA	87.6		10 - 130				06/06/25 08:29	06/07/25 16:34	1
13C2 PFDoA	94.1		10 - 130				06/06/25 08:29	06/07/25 16:34	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.17	J	0.20	0.060	mg/L		06/04/25 07:53	06/05/25 20:34	1
Antimony	ND		0.020	0.0068	mg/L		06/04/25 07:53	06/05/25 20:34	1
Barium	0.079		0.0020	0.00070	mg/L		06/04/25 07:53	06/05/25 20:34	1
Beryllium	ND		0.0020	0.00030	mg/L		06/04/25 07:53	06/05/25 20:34	1
Cadmium	ND		0.0020	0.00050	mg/L		06/04/25 07:53	06/05/25 20:34	1
Calcium	140	B	0.50	0.10	mg/L		06/04/25 07:53	06/05/25 20:34	1
Chromium	ND		0.0040	0.0010	mg/L		06/04/25 07:53	06/05/25 20:34	1
Cobalt	0.00063	J	0.0040	0.00063	mg/L		06/04/25 07:53	06/05/25 20:34	1
Copper	ND		0.010	0.0016	mg/L		06/04/25 07:53	06/05/25 20:34	1
Iron	0.77		0.050	0.019	mg/L		06/10/25 08:37	06/10/25 17:34	1
Lead	ND		0.010	0.0030	mg/L		06/04/25 07:53	06/05/25 20:34	1
Magnesium	16.3	B	0.20	0.043	mg/L		06/04/25 07:53	06/05/25 20:34	1
Manganese	0.23	B	0.0030	0.00040	mg/L		06/04/25 07:53	06/05/25 20:34	1
Nickel	0.0018	J ^5-	0.010	0.0013	mg/L		06/04/25 07:53	06/05/25 20:34	1
Potassium	13.4		0.50	0.10	mg/L		06/04/25 07:53	06/05/25 20:34	1
Silver	ND	^5-	0.0060	0.0017	mg/L		06/04/25 07:53	06/05/25 20:34	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Client Sample ID: RI-MW-2

Lab Sample ID: 480-229870-1

Date Collected: 06/02/25 13:00

Matrix: Water

Date Received: 06/03/25 09:42

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	59.8		1.0	0.32	mg/L		06/04/25 07:53	06/05/25 20:34	1
Thallium	ND		0.020	0.010	mg/L		06/04/25 07:53	06/05/25 20:34	1
Vanadium	ND		0.0050	0.0015	mg/L		06/04/25 07:53	06/05/25 20:34	1
Zinc	ND	^5-	0.010	0.0015	mg/L		06/04/25 07:53	06/05/25 20:34	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0019		0.0010	0.00039	mg/L		06/04/25 07:47	06/04/25 16:45	1
Selenium	0.00068	J	0.0010	0.00044	mg/L		06/04/25 07:47	06/04/25 16:45	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		06/05/25 09:26	06/05/25 12:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.0096	J B	0.010	0.0041	mg/L			06/08/25 17:08	1

Client Sample ID: RI-MW-5

Lab Sample ID: 480-229870-2

Date Collected: 06/02/25 13:30

Matrix: Water

Date Received: 06/03/25 09:42

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	F1	1.0	0.82	ug/L			06/03/25 21:19	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/03/25 21:19	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/03/25 21:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/03/25 21:19	1
1,1-Dichloroethane	ND	F1	1.0	0.38	ug/L			06/03/25 21:19	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/03/25 21:19	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/03/25 21:19	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/03/25 21:19	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/03/25 21:19	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/03/25 21:19	1
1,2-Dichloropropane	ND	F1	1.0	0.72	ug/L			06/03/25 21:19	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/03/25 21:19	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/03/25 21:19	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/03/25 21:19	1
2-Hexanone	ND		5.0	1.2	ug/L			06/03/25 21:19	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/03/25 21:19	1
Acetone	51		10	3.0	ug/L			06/03/25 21:19	1
Benzene	0.58	J	1.0	0.41	ug/L			06/03/25 21:19	1
Bromodichloromethane	ND	F1	1.0	0.39	ug/L			06/03/25 21:19	1
Bromoform	ND	F1	1.0	0.26	ug/L			06/03/25 21:19	1
Bromomethane	ND		1.0	0.69	ug/L			06/03/25 21:19	1
Carbon disulfide	0.45	J	1.0	0.19	ug/L			06/03/25 21:19	1
Carbon tetrachloride	ND	F1	1.0	0.27	ug/L			06/03/25 21:19	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/03/25 21:19	1
Dibromochloromethane	ND	F1	1.0	0.32	ug/L			06/03/25 21:19	1
Chloroethane	ND		1.0	0.32	ug/L			06/03/25 21:19	1
Chloroform	ND		1.0	0.34	ug/L			06/03/25 21:19	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Client Sample ID: RI-MW-5

Lab Sample ID: 480-229870-2

Date Collected: 06/02/25 13:30

Matrix: Water

Date Received: 06/03/25 09:42

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.35	ug/L			06/03/25 21:19	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/03/25 21:19	1
cis-1,3-Dichloropropene	ND	F1	1.0	0.36	ug/L			06/03/25 21:19	1
Cyclohexane	1.7		1.0	0.18	ug/L			06/03/25 21:19	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/03/25 21:19	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/03/25 21:19	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/03/25 21:19	1
Isopropylbenzene	ND	F1	1.0	0.79	ug/L			06/03/25 21:19	1
Methyl acetate	ND		2.5	1.3	ug/L			06/03/25 21:19	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/03/25 21:19	1
Methylcyclohexane	1.7		1.0	0.16	ug/L			06/03/25 21:19	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/03/25 21:19	1
Styrene	ND	F1	1.0	0.73	ug/L			06/03/25 21:19	1
Tetrachloroethene	ND	F1	1.0	0.36	ug/L			06/03/25 21:19	1
Toluene	0.92	J	1.0	0.51	ug/L			06/03/25 21:19	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/03/25 21:19	1
trans-1,3-Dichloropropene	ND	F1	1.0	0.37	ug/L			06/03/25 21:19	1
Trichloroethene	ND		1.0	0.46	ug/L			06/03/25 21:19	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/03/25 21:19	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/03/25 21:19	1
Xylenes, Total	ND	F1	2.0	0.66	ug/L			06/03/25 21:19	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		06/03/25 21:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		06/03/25 21:19	1
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		06/03/25 21:19	1
4-Bromofluorobenzene (Surr)	100		73 - 120		06/03/25 21:19	1
Dibromofluoromethane (Surr)	104		75 - 123		06/03/25 21:19	1

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.15	J	0.20	0.10	ug/L		06/05/25 13:38	06/06/25 12:27	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	28		15 - 110				06/05/25 13:38	06/06/25 12:27	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		06/06/25 09:15	06/09/25 16:46	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		06/06/25 09:15	06/09/25 16:46	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		06/06/25 09:15	06/09/25 16:46	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		06/06/25 09:15	06/09/25 16:46	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		06/06/25 09:15	06/09/25 16:46	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		06/06/25 09:15	06/09/25 16:46	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		06/06/25 09:15	06/09/25 16:46	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		06/06/25 09:15	06/09/25 16:46	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		06/06/25 09:15	06/09/25 16:46	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		06/06/25 09:15	06/09/25 16:46	1
2-Chlorophenol	ND		5.0	0.53	ug/L		06/06/25 09:15	06/09/25 16:46	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Client Sample ID: RI-MW-5

Lab Sample ID: 480-229870-2

Date Collected: 06/02/25 13:30

Matrix: Water

Date Received: 06/03/25 09:42

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	ND		5.0	0.40	ug/L		06/06/25 09:15	06/09/25 16:46	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		06/06/25 09:15	06/09/25 16:46	1
2-Nitroaniline	ND		10	0.42	ug/L		06/06/25 09:15	06/09/25 16:46	1
2-Nitrophenol	ND		5.0	0.48	ug/L		06/06/25 09:15	06/09/25 16:46	1
3,3'-Dichlorobenzidine	ND	F2	5.0	0.40	ug/L		06/06/25 09:15	06/09/25 16:46	1
3-Nitroaniline	ND		10	0.48	ug/L		06/06/25 09:15	06/09/25 16:46	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		06/06/25 09:15	06/09/25 16:46	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		06/06/25 09:15	06/09/25 16:46	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		06/06/25 09:15	06/09/25 16:46	1
4-Chloroaniline	ND		5.0	0.59	ug/L		06/06/25 09:15	06/09/25 16:46	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		06/06/25 09:15	06/09/25 16:46	1
4-Methylphenol	0.55	J	10	0.36	ug/L		06/06/25 09:15	06/09/25 16:46	1
4-Nitroaniline	ND		10	0.25	ug/L		06/06/25 09:15	06/09/25 16:46	1
4-Nitrophenol	ND		10	1.5	ug/L		06/06/25 09:15	06/09/25 16:46	1
Acenaphthene	ND		5.0	0.41	ug/L		06/06/25 09:15	06/09/25 16:46	1
Acenaphthylene	ND		5.0	0.38	ug/L		06/06/25 09:15	06/09/25 16:46	1
Acetophenone	1.6	J	5.0	0.54	ug/L		06/06/25 09:15	06/09/25 16:46	1
Anthracene	ND		5.0	0.28	ug/L		06/06/25 09:15	06/09/25 16:46	1
Atrazine	ND		5.0	0.46	ug/L		06/06/25 09:15	06/09/25 16:46	1
Benzaldehyde	ND		5.0	0.27	ug/L		06/06/25 09:15	06/09/25 16:46	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		06/06/25 09:15	06/09/25 16:46	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		06/06/25 09:15	06/09/25 16:46	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		06/06/25 09:15	06/09/25 16:46	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		06/06/25 09:15	06/09/25 16:46	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		06/06/25 09:15	06/09/25 16:46	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		06/06/25 09:15	06/09/25 16:46	1
Bis(2-chloroethyl)ether	ND	F1	5.0	0.40	ug/L		06/06/25 09:15	06/09/25 16:46	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		06/06/25 09:15	06/09/25 16:46	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		06/06/25 09:15	06/09/25 16:46	1
Caprolactam	ND		5.0	2.2	ug/L		06/06/25 09:15	06/09/25 16:46	1
Carbazole	ND		5.0	0.30	ug/L		06/06/25 09:15	06/09/25 16:46	1
Chrysene	ND		5.0	0.33	ug/L		06/06/25 09:15	06/09/25 16:46	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		06/06/25 09:15	06/09/25 16:46	1
Di-n-butyl phthalate	0.65	J	5.0	0.31	ug/L		06/06/25 09:15	06/09/25 16:46	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		06/06/25 09:15	06/09/25 16:46	1
Dibenzofuran	ND		10	0.51	ug/L		06/06/25 09:15	06/09/25 16:46	1
Diethyl phthalate	0.41	J	5.0	0.22	ug/L		06/06/25 09:15	06/09/25 16:46	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		06/06/25 09:15	06/09/25 16:46	1
Fluoranthene	ND		5.0	0.40	ug/L		06/06/25 09:15	06/09/25 16:46	1
Fluorene	ND		5.0	0.36	ug/L		06/06/25 09:15	06/09/25 16:46	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		06/06/25 09:15	06/09/25 16:46	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		06/06/25 09:15	06/09/25 16:46	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		06/06/25 09:15	06/09/25 16:46	1
Hexachloroethane	ND		5.0	0.59	ug/L		06/06/25 09:15	06/09/25 16:46	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		06/06/25 09:15	06/09/25 16:46	1
Isophorone	ND		5.0	0.43	ug/L		06/06/25 09:15	06/09/25 16:46	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		06/06/25 09:15	06/09/25 16:46	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		06/06/25 09:15	06/09/25 16:46	1
Naphthalene	ND		5.0	0.76	ug/L		06/06/25 09:15	06/09/25 16:46	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Client Sample ID: RI-MW-5

Lab Sample ID: 480-229870-2

Date Collected: 06/02/25 13:30

Matrix: Water

Date Received: 06/03/25 09:42

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	ND		5.0	0.29	ug/L		06/06/25 09:15	06/09/25 16:46	1
Pentachlorophenol	ND		10	2.2	ug/L		06/06/25 09:15	06/09/25 16:46	1
Phenanthrene	ND		5.0	0.44	ug/L		06/06/25 09:15	06/09/25 16:46	1
Phenol	ND		5.0	0.39	ug/L		06/06/25 09:15	06/09/25 16:46	1
Pyrene	ND		5.0	0.34	ug/L		06/06/25 09:15	06/09/25 16:46	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	2.5	T J	ug/L		4.63	N/A	06/06/25 09:15	06/09/25 16:46	1
Unknown	2.0	T J	ug/L		4.73	N/A	06/06/25 09:15	06/09/25 16:46	1
Unknown	30	T J	ug/L		4.84	N/A	06/06/25 09:15	06/09/25 16:46	1
Unknown	2.5	T J	ug/L		4.89	N/A	06/06/25 09:15	06/09/25 16:46	1
Benzene, 1,3-dimethyl-	37	T J N	ug/L		5.18	108-38-3	06/06/25 09:15	06/09/25 16:46	1
Ethanol, 2-butoxy-	15	T J N	ug/L		5.39	111-76-2	06/06/25 09:15	06/09/25 16:46	1
Unknown	2.4	T J	ug/L		5.54	N/A	06/06/25 09:15	06/09/25 16:46	1
Unknown	2.5	T J	ug/L		5.68	N/A	06/06/25 09:15	06/09/25 16:46	1
Unknown	2.2	T J	ug/L		5.77	N/A	06/06/25 09:15	06/09/25 16:46	1
Unknown	2.0	T J	ug/L		6.40	N/A	06/06/25 09:15	06/09/25 16:46	1
Unknown	4.7	T J	ug/L		7.67	N/A	06/06/25 09:15	06/09/25 16:46	1
Unknown	5.2	T J	ug/L		7.69	N/A	06/06/25 09:15	06/09/25 16:46	1
Unknown	2.2	T J	ug/L		8.53	N/A	06/06/25 09:15	06/09/25 16:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	84		29 - 129	06/06/25 09:15	06/09/25 16:46	1
Phenol-d5 (Surr)	43		10 - 120	06/06/25 09:15	06/09/25 16:46	1
p-Terphenyl-d14 (Surr)	82		33 - 132	06/06/25 09:15	06/09/25 16:46	1
2,4,6-Tribromophenol (Surr)	115		25 - 144	06/06/25 09:15	06/09/25 16:46	1
2-Fluorobiphenyl (Surr)	105		53 - 126	06/06/25 09:15	06/09/25 16:46	1
2-Fluorophenol (Surr)	66		24 - 120	06/06/25 09:15	06/09/25 16:46	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		06/06/25 13:24	06/09/25 10:41	1
4,4'-DDE	ND		0.050	0.012	ug/L		06/06/25 13:24	06/09/25 10:41	1
4,4'-DDT	ND		0.050	0.011	ug/L		06/06/25 13:24	06/09/25 10:41	1
Aldrin	ND		0.050	0.0081	ug/L		06/06/25 13:24	06/09/25 10:41	1
alpha-BHC	0.0087	J	0.050	0.0077	ug/L		06/06/25 13:24	06/09/25 10:41	1
cis-Chlordane	ND		0.050	0.015	ug/L		06/06/25 13:24	06/09/25 10:41	1
beta-BHC	ND		0.050	0.025	ug/L		06/06/25 13:24	06/09/25 10:41	1
delta-BHC	ND		0.050	0.010	ug/L		06/06/25 13:24	06/09/25 10:41	1
Dieldrin	ND		0.050	0.0098	ug/L		06/06/25 13:24	06/09/25 10:41	1
Endosulfan I	ND		0.050	0.011	ug/L		06/06/25 13:24	06/09/25 10:41	1
Endosulfan II	ND		0.050	0.012	ug/L		06/06/25 13:24	06/09/25 10:41	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		06/06/25 13:24	06/09/25 10:41	1
Endrin	ND		0.050	0.014	ug/L		06/06/25 13:24	06/09/25 10:41	1
Endrin aldehyde	ND		0.050	0.016	ug/L		06/06/25 13:24	06/09/25 10:41	1
Endrin ketone	ND		0.050	0.012	ug/L		06/06/25 13:24	06/09/25 10:41	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		06/06/25 13:24	06/09/25 10:41	1
trans-Chlordane	ND		0.050	0.011	ug/L		06/06/25 13:24	06/09/25 10:41	1
Heptachlor	ND		0.050	0.0085	ug/L		06/06/25 13:24	06/09/25 10:41	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		06/06/25 13:24	06/09/25 10:41	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Client Sample ID: RI-MW-5

Lab Sample ID: 480-229870-2

Date Collected: 06/02/25 13:30

Matrix: Water

Date Received: 06/03/25 09:42

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	0.016	J	0.050	0.014	ug/L		06/06/25 13:24	06/09/25 10:41	1
Toxaphene	ND		0.50	0.12	ug/L		06/06/25 13:24	06/09/25 10:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	98		10 - 120				06/06/25 13:24	06/09/25 10:41	1
DCB Decachlorobiphenyl	71		10 - 120				06/06/25 13:24	06/09/25 10:41	1
Tetrachloro-m-xylene	81		10 - 120				06/06/25 13:24	06/09/25 10:41	1
Tetrachloro-m-xylene	95		10 - 120				06/06/25 13:24	06/09/25 10:41	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.52	0.18	ug/L		06/09/25 08:25	06/10/25 11:01	1
PCB-1221	ND		0.52	0.18	ug/L		06/09/25 08:25	06/10/25 11:01	1
PCB-1232	ND		0.52	0.18	ug/L		06/09/25 08:25	06/10/25 11:01	1
PCB-1242	ND		0.52	0.18	ug/L		06/09/25 08:25	06/10/25 11:01	1
PCB-1248	ND		0.52	0.18	ug/L		06/09/25 08:25	06/10/25 11:01	1
PCB-1254	ND		0.52	0.26	ug/L		06/09/25 08:25	06/10/25 11:01	1
PCB-1260	ND		0.52	0.26	ug/L		06/09/25 08:25	06/10/25 11:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	90		10 - 145				06/09/25 08:25	06/10/25 11:01	1
Tetrachloro-m-xylene	90		10 - 145				06/09/25 08:25	06/10/25 11:01	1
DCB Decachlorobiphenyl	74		10 - 123				06/09/25 08:25	06/10/25 11:01	1
DCB Decachlorobiphenyl	65		10 - 123				06/09/25 08:25	06/10/25 11:01	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	1.4	J	3.2	0.89	ng/L		06/06/25 08:29	06/07/25 16:48	1
Perfluoropentanoic acid (PFPeA)	0.55	J	1.6	0.49	ng/L		06/06/25 08:29	06/07/25 16:48	1
Perfluorohexanoic acid (PFHxA)	3.3		1.6	0.40	ng/L		06/06/25 08:29	06/07/25 16:48	1
Perfluoroheptanoic acid (PFHpA)	ND		1.6	0.65	ng/L		06/06/25 08:29	06/07/25 16:48	1
Perfluorooctanoic acid (PFOA)	1.3	J	1.6	0.73	ng/L		06/06/25 08:29	06/07/25 16:48	1
Perfluorononanoic acid (PFNA)	ND		1.6	0.40	ng/L		06/06/25 08:29	06/07/25 16:48	1
Perfluorodecanoic acid (PFDA)	ND		1.6	0.40	ng/L		06/06/25 08:29	06/07/25 16:48	1
Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.40	ng/L		06/06/25 08:29	06/07/25 16:48	1
Perfluorododecanoic acid (PFDoA)	ND		1.6	0.40	ng/L		06/06/25 08:29	06/07/25 16:48	1
Perfluorotridecanoic acid (PFTTrDA)	ND		1.6	0.40	ng/L		06/06/25 08:29	06/07/25 16:48	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.6	0.40	ng/L		06/06/25 08:29	06/07/25 16:48	1
Perfluorobutanesulfonic acid (PFBS)	0.46	J	1.6	0.40	ng/L		06/06/25 08:29	06/07/25 16:48	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.6	0.40	ng/L		06/06/25 08:29	06/07/25 16:48	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.6	0.65	ng/L		06/06/25 08:29	06/07/25 16:48	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.6	0.40	ng/L		06/06/25 08:29	06/07/25 16:48	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.6	0.40	ng/L		06/06/25 08:29	06/07/25 16:48	1
Perfluorononanesulfonic acid (PFNS)	ND		1.6	0.40	ng/L		06/06/25 08:29	06/07/25 16:48	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.40	ng/L		06/06/25 08:29	06/07/25 16:48	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.6	0.49	ng/L		06/06/25 08:29	06/07/25 16:48	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		3.2	0.81	ng/L		06/06/25 08:29	06/07/25 16:48	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Client Sample ID: RI-MW-5

Lab Sample ID: 480-229870-2

Date Collected: 06/02/25 13:30

Matrix: Water

Date Received: 06/03/25 09:42

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		3.2	0.81	ng/L		06/06/25 08:29	06/07/25 16:48	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		3.2	0.81	ng/L		06/06/25 08:29	06/07/25 16:48	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.6	0.40	ng/L		06/06/25 08:29	06/07/25 16:48	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.6	0.40	ng/L		06/06/25 08:29	06/07/25 16:48	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.6	0.40	ng/L		06/06/25 08:29	06/07/25 16:48	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.6	0.40	ng/L		06/06/25 08:29	06/07/25 16:48	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.6	0.40	ng/L		06/06/25 08:29	06/07/25 16:48	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		8.1	2.0	ng/L		06/06/25 08:29	06/07/25 16:48	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		8.1	2.0	ng/L		06/06/25 08:29	06/07/25 16:48	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.6	0.61	ng/L		06/06/25 08:29	06/07/25 16:48	1
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND		1.6	0.40	ng/L		06/06/25 08:29	06/07/25 16:48	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.6	0.40	ng/L		06/06/25 08:29	06/07/25 16:48	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.6	0.40	ng/L		06/06/25 08:29	06/07/25 16:48	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.6	0.40	ng/L		06/06/25 08:29	06/07/25 16:48	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		1.6	0.40	ng/L		06/06/25 08:29	06/07/25 16:48	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		1.6	0.40	ng/L		06/06/25 08:29	06/07/25 16:48	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.6	0.40	ng/L		06/06/25 08:29	06/07/25 16:48	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		3.2	0.81	ng/L		06/06/25 08:29	06/07/25 16:48	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		8.1	2.3	ng/L		06/06/25 08:29	06/07/25 16:48	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		8.1	2.0	ng/L		06/06/25 08:29	06/07/25 16:48	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	94.2		5 - 130	06/06/25 08:29	06/07/25 16:48	1
13C5-PFPeA	103		40 - 130	06/06/25 08:29	06/07/25 16:48	1
13C5-PFHxA	101		40 - 130	06/06/25 08:29	06/07/25 16:48	1
13C4-PFHpA	95.6		40 - 130	06/06/25 08:29	06/07/25 16:48	1
13C8-PFOA	91.4		40 - 130	06/06/25 08:29	06/07/25 16:48	1
13C9-PFNA	97.1		40 - 130	06/06/25 08:29	06/07/25 16:48	1
13C6-PFDA	92.4		40 - 130	06/06/25 08:29	06/07/25 16:48	1
13C7-PFUnA	86.3		30 - 130	06/06/25 08:29	06/07/25 16:48	1
13C2-PFTeDA	89.1		10 - 130	06/06/25 08:29	06/07/25 16:48	1
13C3-PFBS	103		40 - 135	06/06/25 08:29	06/07/25 16:48	1
13C3-PFHxS	99.8		40 - 130	06/06/25 08:29	06/07/25 16:48	1
13C8-PFOS	93.9		40 - 130	06/06/25 08:29	06/07/25 16:48	1
13C8-PFOSA	82.3		40 - 130	06/06/25 08:29	06/07/25 16:48	1
d3-NMeFOSAA	92.3		40 - 170	06/06/25 08:29	06/07/25 16:48	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Client Sample ID: RI-MW-5

Lab Sample ID: 480-229870-2

Date Collected: 06/02/25 13:30

Matrix: Water

Date Received: 06/03/25 09:42

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	89.6		25 - 135	06/06/25 08:29	06/07/25 16:48	1
13C2 4:2 FTS	168		40 - 200	06/06/25 08:29	06/07/25 16:48	1
13C2 6:2 FTS	129		40 - 200	06/06/25 08:29	06/07/25 16:48	1
13C2 8:2 FTS	98.3		40 - 300	06/06/25 08:29	06/07/25 16:48	1
13C3-HFPO-DA	95.8		40 - 130	06/06/25 08:29	06/07/25 16:48	1
D7-NMeFOSE	68.9		10 - 130	06/06/25 08:29	06/07/25 16:48	1
D9-NEtFOSE	66.9		10 - 130	06/06/25 08:29	06/07/25 16:48	1
d5-NEtPFOSA	73.1		10 - 130	06/06/25 08:29	06/07/25 16:48	1
d3-NMePFOSA	77.2		10 - 130	06/06/25 08:29	06/07/25 16:48	1
13C2 PFDoA	92.4		10 - 130	06/06/25 08:29	06/07/25 16:48	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.068	J	0.20	0.060	mg/L		06/04/25 07:53	06/05/25 20:36	1
Antimony	ND		0.020	0.0068	mg/L		06/04/25 07:53	06/05/25 20:36	1
Barium	0.15		0.0020	0.00070	mg/L		06/04/25 07:53	06/05/25 20:36	1
Beryllium	ND		0.0020	0.00030	mg/L		06/04/25 07:53	06/05/25 20:36	1
Cadmium	ND		0.0020	0.00050	mg/L		06/04/25 07:53	06/05/25 20:36	1
Calcium	178	B	0.50	0.10	mg/L		06/04/25 07:53	06/05/25 20:36	1
Chromium	ND		0.0040	0.0010	mg/L		06/04/25 07:53	06/05/25 20:36	1
Cobalt	0.0033	J	0.0040	0.00063	mg/L		06/04/25 07:53	06/05/25 20:36	1
Copper	0.0017	J	0.010	0.0016	mg/L		06/04/25 07:53	06/05/25 20:36	1
Iron	0.19		0.050	0.019	mg/L		06/10/25 08:37	06/10/25 17:36	1
Lead	ND		0.010	0.0030	mg/L		06/04/25 07:53	06/05/25 20:36	1
Magnesium	43.8	B	0.20	0.043	mg/L		06/04/25 07:53	06/05/25 20:36	1
Manganese	2.6	B	0.0030	0.00040	mg/L		06/04/25 07:53	06/05/25 20:36	1
Nickel	0.0057	J ^5-	0.010	0.0013	mg/L		06/04/25 07:53	06/05/25 20:36	1
Potassium	18.0		0.50	0.10	mg/L		06/04/25 07:53	06/05/25 20:36	1
Silver	ND	^5-	0.0060	0.0017	mg/L		06/04/25 07:53	06/05/25 20:36	1
Sodium	14.5	F1 F2	1.0	0.32	mg/L		06/04/25 07:53	06/05/25 20:36	1
Thallium	ND		0.020	0.010	mg/L		06/04/25 07:53	06/05/25 20:36	1
Vanadium	ND		0.0050	0.0015	mg/L		06/04/25 07:53	06/05/25 20:36	1
Zinc	0.0033	J ^5- B	0.010	0.0015	mg/L		06/04/25 07:53	06/05/25 20:36	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0011		0.0010	0.00039	mg/L		06/04/25 07:47	06/04/25 16:48	1
Selenium	0.00056	J	0.0010	0.00044	mg/L		06/04/25 07:47	06/04/25 16:48	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		06/05/25 09:26	06/05/25 12:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.0095	J B	0.010	0.0041	mg/L			06/08/25 17:00	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-229870-3

Date Collected: 06/02/25 00:00

Matrix: Water

Date Received: 06/03/25 09:42

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/03/25 21:41	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/03/25 21:41	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/03/25 21:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/03/25 21:41	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/03/25 21:41	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/03/25 21:41	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/03/25 21:41	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/03/25 21:41	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/03/25 21:41	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/03/25 21:41	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/03/25 21:41	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/03/25 21:41	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/03/25 21:41	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/03/25 21:41	1
2-Hexanone	ND		5.0	1.2	ug/L			06/03/25 21:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/03/25 21:41	1
Acetone	ND		10	3.0	ug/L			06/03/25 21:41	1
Benzene	ND		1.0	0.41	ug/L			06/03/25 21:41	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/03/25 21:41	1
Bromoform	ND		1.0	0.26	ug/L			06/03/25 21:41	1
Bromomethane	ND		1.0	0.69	ug/L			06/03/25 21:41	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/03/25 21:41	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/03/25 21:41	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/03/25 21:41	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/03/25 21:41	1
Chloroethane	ND		1.0	0.32	ug/L			06/03/25 21:41	1
Chloroform	ND		1.0	0.34	ug/L			06/03/25 21:41	1
Chloromethane	ND		1.0	0.35	ug/L			06/03/25 21:41	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/03/25 21:41	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/03/25 21:41	1
Cyclohexane	ND		1.0	0.18	ug/L			06/03/25 21:41	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/03/25 21:41	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/03/25 21:41	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/03/25 21:41	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/03/25 21:41	1
Methyl acetate	ND		2.5	1.3	ug/L			06/03/25 21:41	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/03/25 21:41	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/03/25 21:41	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/03/25 21:41	1
Styrene	ND		1.0	0.73	ug/L			06/03/25 21:41	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/03/25 21:41	1
Toluene	ND		1.0	0.51	ug/L			06/03/25 21:41	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/03/25 21:41	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/03/25 21:41	1
Trichloroethene	ND		1.0	0.46	ug/L			06/03/25 21:41	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/03/25 21:41	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/03/25 21:41	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/03/25 21:41	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-229870-3

Date Collected: 06/02/25 00:00

Matrix: Water

Date Received: 06/03/25 09:42

<u>Tentatively Identified Compound</u>	<u>Est. Result</u>	<u>Qualifier</u>	<u>Unit</u>	<u>D</u>	<u>RT</u>	<u>CAS No.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
Tentatively Identified Compound	None		ug/L			N/A		06/03/25 21:41	1
<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>				<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
Toluene-d8 (Surr)	96		80 - 120					06/03/25 21:41	1
1,2-Dichloroethane-d4 (Surr)	102		77 - 120					06/03/25 21:41	1
4-Bromofluorobenzene (Surr)	98		73 - 120					06/03/25 21:41	1
Dibromofluoromethane (Surr)	105		75 - 123					06/03/25 21:41	1

Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (80-120)	DCA (77-120)	BFB (73-120)	DBFM (75-123)
480-229870-1	RI-MW-2	96	100	102	102
480-229870-2	RI-MW-5	98	101	100	104
480-229870-2 MS	RI-MW-5 MS	97	96	103	100
480-229870-2 MSD	RI-MW-5 MSD	97	98	101	100
480-229870-3	Trip Blank	96	102	98	105
LCS 480-747817/6	Lab Control Sample	96	104	103	99
MB 480-747817/9	Method Blank	97	99	102	101

Surrogate Legend

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		NBZ (29-129)	PHL (10-120)	TPHd14 (33-132)	TBP (25-144)	FBP (53-126)	2FP (24-120)
480-229870-1	RI-MW-2	90	43	108	119	102	66
480-229870-2	RI-MW-5	84	43	82	115	105	66
480-229870-2 MS	RI-MW-5 MS	102	55	71	114	108	73
480-229870-2 MSD	RI-MW-5 MSD	100	53	76	114	104	71
LCS 480-748102/2-A	Lab Control Sample	98	53	99	111	103	71
MB 480-748102/1-A	Method Blank	88	43	107	98	99	66

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1 (10-120)	DCBP2 (10-120)	TCX1 (10-120)	TCX2 (10-120)
480-229870-1	RI-MW-2	73	63	78	76
480-229870-2	RI-MW-5	98	71	81	95
480-229870-2 MS	RI-MW-5 MS	96	67	87	83
480-229870-2 MSD	RI-MW-5 MSD	86	71	88	80
LCS 480-748149/2-A	Lab Control Sample	108	88	94	87
MB 480-748149/1-A	Method Blank	100	94	92	83

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

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Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TCX1 (10-145)	TCX2 (10-145)	DCBP1 (10-123)	DCBP2 (10-123)
480-229870-1	RI-MW-2	95	85	63	51
480-229870-2	RI-MW-5	90	90	74	65
480-229870-2 MS	RI-MW-5 MS	85	79	73	61
480-229870-2 MSD	RI-MW-5 MSD	88	78	69	59
LCS 480-748243/2-A	Lab Control Sample	88	80	101	81
MB 480-748243/1-A	Method Blank	78	75	115	102

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Isotope Dilution Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	DXE (15-110)							
480-229870-1	RI-MW-2	27							
480-229870-2	RI-MW-5	28							
480-229870-2 MS	RI-MW-5 MS	32							
480-229870-2 MSD	RI-MW-5 MSD	31							
LCS 480-748017/2-A	Lab Control Sample	31							
MB 480-748017/1-A	Method Blank	30							
Surrogate Legend									
DXE = 1,4-Dioxane-d8									

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (5-130)	PFPeA (40-130)	13C5PHA (40-130)	C4PFHA (40-130)	C8PFOA (40-130)	C9PFNA (40-130)	C6PFDA (40-130)	13C7PUA (30-130)
480-229870-1	RI-MW-2	102	104	103	103	98.0	105	92.7	96.2
480-229870-2	RI-MW-5	94.2	103	101	95.6	91.4	97.1	92.4	86.3
480-229870-2 MS	RI-MW-5 MS	95.7	100	107	102	92.7	97.2	88.3	88.2
480-229870-2 MSD	RI-MW-5 MSD	92.6	102	90.9	95.2	88.8	96.4	75.9	73.2
LCS 410-653903/10-A	Lab Control Sample	103	98.9	96.0	95.4	90.9	92.8	83.4	90.1
LLCS 410-653903/11-A	Lab Control Sample	98.0	102	99.3	101	93.6	94.8	87.2	86.6
MB 410-653903/9-A	Method Blank	98.1	107	97.2	94.9	84.3	89.9	94.0	91.2
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFTDA (10-130)	C3PFBS (40-135)	C3PFHS (40-130)	C8PFOS (40-130)	PFOSA (40-130)	d5NMFOS (40-170)	d5NEFOS (25-135)	M242FTS (40-200)
480-229870-1	RI-MW-2	94.8	112	105	106	99.0	108	101	179
480-229870-2	RI-MW-5	89.1	103	99.8	93.9	82.3	92.3	89.6	168
480-229870-2 MS	RI-MW-5 MS	79.5	108	103	95.9	87.2	93.4	90.2	162
480-229870-2 MSD	RI-MW-5 MSD	66.5	102	98.9	84.1	79.3	76.4	71.3	160
LCS 410-653903/10-A	Lab Control Sample	97.9	91.9	91.7	93.7	87.8	81.8	80.6	103
LLCS 410-653903/11-A	Lab Control Sample	92.0	98.7	86.0	91.9	94.9	88.7	84.4	100
MB 410-653903/9-A	Method Blank	103	93.3	88.3	88.7	97.4	85.5	85.4	100
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M262FTS (40-200)	M282FTS (40-300)	HFPODA (40-130)	NMFM (10-130)	NEFM (10-130)	d5NPFSA (10-130)	d3NMFSA (10-130)	PFDaA (10-130)
480-229870-1	RI-MW-2	136	117	99.0	82.5	74.8	83.7	87.6	94.1
480-229870-2	RI-MW-5	129	98.3	95.8	68.9	66.9	73.1	77.2	92.4
480-229870-2 MS	RI-MW-5 MS	127	105	93.5	72.2	68.8	74.8	80.3	84.0
480-229870-2 MSD	RI-MW-5 MSD	110	80.5	85.7	52.1	50.7	66.0	66.6	71.5
LCS 410-653903/10-A	Lab Control Sample	102	91.1	95.4	76.8	70.1	67.1	69.9	93.4
LLCS 410-653903/11-A	Lab Control Sample	97.7	95.2	93.1	79.2	74.7	73.0	78.0	88.2
MB 410-653903/9-A	Method Blank	101	86.7	90.4	85.9	80.4	82.0	81.8	93.5
Surrogate Legend									
PFBA = 13C4-PFBA									
PFPeA = 13C5-PFPeA									
13C5PHA = 13C5-PFHxA									
C4PFHA = 13C4-PFHpA									
C8PFOA = 13C8-PFOA									

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Isotope Dilution Summary

Client: Brydges Engineering in Environment & Energy DPC

Job ID: 480-229870-1

Project/Site: 166 E 4th Street

C9PFNA = 13C9-PFNA
C6PFDA = 13C6-PFDA
13C7PUA = 13C7-PFUnA
PFTDA = 13C2-PFTeDA
C3PFBS = 13C3-PFBS
C3PFHS = 13C3-PFHxS
C8PFOS = 13C8-PFOS
PFOSA = 13C8-PFOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M242FTS = 13C2 4:2 FTS
M262FTS = 13C2 6:2 FTS
M282FTS = 13C2 8:2 FTS
HFPODA = 13C3-HFPO-DA
NMFM = D7-NMeFOSE
NEFM = D9-NEtFOSE
d5NPFSA = d5-NEtPFOSA
d3NMFSA = d3-NMePFOSA
PFD_oA = 13C2 PFD_oA

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-747817/9

Matrix: Water

Analysis Batch: 747817

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/03/25 19:05	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/03/25 19:05	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/03/25 19:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/03/25 19:05	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/03/25 19:05	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/03/25 19:05	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/03/25 19:05	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/03/25 19:05	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/03/25 19:05	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/03/25 19:05	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/03/25 19:05	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/03/25 19:05	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/03/25 19:05	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/03/25 19:05	1
2-Hexanone	ND		5.0	1.2	ug/L			06/03/25 19:05	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/03/25 19:05	1
Acetone	ND		10	3.0	ug/L			06/03/25 19:05	1
Benzene	ND		1.0	0.41	ug/L			06/03/25 19:05	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/03/25 19:05	1
Bromoform	ND		1.0	0.26	ug/L			06/03/25 19:05	1
Bromomethane	ND		1.0	0.69	ug/L			06/03/25 19:05	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/03/25 19:05	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/03/25 19:05	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/03/25 19:05	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/03/25 19:05	1
Chloroethane	ND		1.0	0.32	ug/L			06/03/25 19:05	1
Chloroform	ND		1.0	0.34	ug/L			06/03/25 19:05	1
Chloromethane	ND		1.0	0.35	ug/L			06/03/25 19:05	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/03/25 19:05	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/03/25 19:05	1
Cyclohexane	ND		1.0	0.18	ug/L			06/03/25 19:05	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/03/25 19:05	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/03/25 19:05	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/03/25 19:05	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/03/25 19:05	1
Methyl acetate	ND		2.5	1.3	ug/L			06/03/25 19:05	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/03/25 19:05	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/03/25 19:05	1
Methylene Chloride	1.12		1.0	0.44	ug/L			06/03/25 19:05	1
Styrene	ND		1.0	0.73	ug/L			06/03/25 19:05	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/03/25 19:05	1
Toluene	ND		1.0	0.51	ug/L			06/03/25 19:05	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/03/25 19:05	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/03/25 19:05	1
Trichloroethene	ND		1.0	0.46	ug/L			06/03/25 19:05	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/03/25 19:05	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/03/25 19:05	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/03/25 19:05	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-747817/9

Matrix: Water

Analysis Batch: 747817

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		06/03/25 19:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		80 - 120					06/03/25 19:05	1
1,2-Dichloroethane-d4 (Surr)	99		77 - 120					06/03/25 19:05	1
4-Bromofluorobenzene (Surr)	102		73 - 120					06/03/25 19:05	1
Dibromofluoromethane (Surr)	101		75 - 123					06/03/25 19:05	1

Lab Sample ID: LCS 480-747817/6

Matrix: Water

Analysis Batch: 747817

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	25.0	26.8		ug/L		107	73 - 126
1,1,1,2-Tetrachloroethane	25.0	25.3		ug/L		101	76 - 120
1,1,1,2-Trichloroethane	25.0	24.6		ug/L		99	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.1		ug/L		100	61 - 148
1,1-Dichloroethane	25.0	25.5		ug/L		102	77 - 120
1,1-Dichloroethene	25.0	23.9		ug/L		96	66 - 127
1,2,4-Trichlorobenzene	25.0	25.2		ug/L		101	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	26.9		ug/L		108	56 - 134
1,2-Dichlorobenzene	25.0	24.7		ug/L		99	80 - 124
1,2-Dichloroethane	25.0	24.4		ug/L		98	75 - 120
1,2-Dichloropropane	25.0	25.1		ug/L		101	76 - 120
1,3-Dichlorobenzene	25.0	23.7		ug/L		95	77 - 120
1,4-Dichlorobenzene	25.0	24.0		ug/L		96	80 - 120
2-Butanone (MEK)	125	137		ug/L		109	57 - 140
2-Hexanone	125	125		ug/L		100	65 - 127
4-Methyl-2-pentanone (MIBK)	125	126		ug/L		101	71 - 125
Acetone	125	157		ug/L		125	56 - 142
Benzene	25.0	24.4		ug/L		98	71 - 124
Bromodichloromethane	25.0	25.4		ug/L		101	80 - 122
Bromoform	25.0	29.5		ug/L		118	61 - 132
Bromomethane	25.0	28.4		ug/L		114	55 - 144
Carbon disulfide	25.0	24.7		ug/L		99	59 - 134
Carbon tetrachloride	25.0	29.8		ug/L		119	72 - 134
Chlorobenzene	25.0	24.2		ug/L		97	80 - 120
Dibromochloromethane	25.0	26.9		ug/L		108	75 - 125
Chloroethane	25.0	25.5		ug/L		102	69 - 136
Chloroform	25.0	23.9		ug/L		96	73 - 127
Chloromethane	25.0	25.1		ug/L		100	68 - 124
cis-1,2-Dichloroethene	25.0	24.5		ug/L		98	74 - 124
cis-1,3-Dichloropropene	25.0	26.9		ug/L		108	74 - 124
Cyclohexane	25.0	24.0		ug/L		96	59 - 135
Dichlorodifluoromethane	25.0	25.2		ug/L		101	59 - 135
Ethylbenzene	25.0	24.6		ug/L		98	77 - 123
1,2-Dibromoethane	25.0	24.6		ug/L		98	77 - 120

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-747817/6

Matrix: Water

Analysis Batch: 747817

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Isopropylbenzene	25.0	25.3		ug/L		101	77 - 122
Methyl acetate	50.0	51.7		ug/L		103	74 - 133
Methyl tert-butyl ether	25.0	25.5		ug/L		102	77 - 120
Methylcyclohexane	25.0	25.4		ug/L		102	68 - 134
Methylene Chloride	25.0	26.8		ug/L		107	75 - 124
Styrene	25.0	25.1		ug/L		100	80 - 120
Tetrachloroethene	25.0	28.8		ug/L		115	74 - 122
Toluene	25.0	24.3		ug/L		97	80 - 122
trans-1,2-Dichloroethene	25.0	25.4		ug/L		102	73 - 127
trans-1,3-Dichloropropene	25.0	25.9		ug/L		104	80 - 120
Trichloroethene	25.0	23.9		ug/L		96	74 - 123
Trichlorofluoromethane	25.0	28.8		ug/L		115	62 - 150
Vinyl chloride	25.0	26.3		ug/L		105	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	96		80 - 120
1,2-Dichloroethane-d4 (Surr)	104		77 - 120
4-Bromofluorobenzene (Surr)	103		73 - 120
Dibromofluoromethane (Surr)	99		75 - 123

Lab Sample ID: 480-229870-2 MS

Matrix: Water

Analysis Batch: 747817

Client Sample ID: RI-MW-5 MS

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	ND	F1	25.0	31.9	F1	ug/L		128	73 - 126
1,1,2,2-Tetrachloroethane	ND		25.0	27.9		ug/L		112	76 - 120
1,1,2-Trichloroethane	ND		25.0	27.4		ug/L		109	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	28.5		ug/L		114	61 - 148
1,1-Dichloroethane	ND	F1	25.0	27.9		ug/L		111	77 - 120
1,1-Dichloroethene	ND		25.0	28.1		ug/L		113	66 - 127
1,2,4-Trichlorobenzene	ND		25.0	27.3		ug/L		109	79 - 122
1,2-Dibromo-3-Chloropropane	ND		25.0	27.9		ug/L		112	56 - 134
1,2-Dichlorobenzene	ND		25.0	28.1		ug/L		112	80 - 124
1,2-Dichloroethane	ND		25.0	27.2		ug/L		109	75 - 120
1,2-Dichloropropane	ND	F1	25.0	28.2		ug/L		113	76 - 120
1,3-Dichlorobenzene	ND		25.0	26.9		ug/L		108	77 - 120
1,4-Dichlorobenzene	ND		25.0	27.6		ug/L		110	78 - 124
2-Butanone (MEK)	ND		125	145		ug/L		116	57 - 140
2-Hexanone	ND		125	138		ug/L		111	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		125	138		ug/L		111	71 - 125
Acetone	51		125	168		ug/L		93	56 - 142
Benzene	0.58	J	25.0	28.5		ug/L		112	71 - 124
Bromodichloromethane	ND	F1	25.0	28.2		ug/L		113	80 - 122
Bromoform	ND	F1	25.0	30.5		ug/L		122	61 - 132
Bromomethane	ND		25.0	34.9		ug/L		140	55 - 144
Carbon disulfide	0.45	J	25.0	27.8		ug/L		109	59 - 134
Carbon tetrachloride	ND	F1	25.0	35.1	F1	ug/L		140	72 - 134

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-229870-2 MS

Matrix: Water

Analysis Batch: 747817

Client Sample ID: RI-MW-5 MS

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobenzene	ND		25.0	28.0		ug/L		112	80 - 120
Dibromochloromethane	ND	F1	25.0	29.2		ug/L		117	75 - 125
Chloroethane	ND		25.0	28.6		ug/L		115	69 - 136
Chloroform	ND		25.0	28.3		ug/L		113	73 - 127
Chloromethane	ND		25.0	27.7		ug/L		111	68 - 124
cis-1,2-Dichloroethene	ND		25.0	28.3		ug/L		113	74 - 124
cis-1,3-Dichloropropene	ND	F1	25.0	28.8		ug/L		115	74 - 124
Cyclohexane	1.7		25.0	30.3		ug/L		114	59 - 135
Dichlorodifluoromethane	ND		25.0	27.9		ug/L		112	59 - 135
Ethylbenzene	ND		25.0	29.0		ug/L		116	77 - 123
1,2-Dibromoethane	ND		25.0	26.9		ug/L		108	77 - 120
Isopropylbenzene	ND	F1	25.0	29.6		ug/L		118	77 - 122
Methyl acetate	ND		50.0	53.7		ug/L		107	74 - 133
Methyl tert-butyl ether	ND		25.0	27.3		ug/L		109	77 - 120
Methylcyclohexane	1.7		25.0	31.0		ug/L		117	68 - 134
Methylene Chloride	ND		25.0	28.4		ug/L		114	75 - 124
Styrene	ND	F1	25.0	28.6		ug/L		114	80 - 120
Tetrachloroethene	ND	F1	25.0	29.4		ug/L		118	74 - 122
Toluene	0.92	J	25.0	28.7		ug/L		111	80 - 122
trans-1,2-Dichloroethene	ND		25.0	29.5		ug/L		118	73 - 127
trans-1,3-Dichloropropene	ND	F1	25.0	28.1		ug/L		112	80 - 120
Trichloroethene	ND		25.0	28.0		ug/L		112	74 - 123
Trichlorofluoromethane	ND		25.0	31.6		ug/L		126	62 - 150
Vinyl chloride	ND		25.0	30.0		ug/L		120	65 - 133

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	97		80 - 120
1,2-Dichloroethane-d4 (Surr)	96		77 - 120
4-Bromofluorobenzene (Surr)	103		73 - 120
Dibromofluoromethane (Surr)	100		75 - 123

Lab Sample ID: 480-229870-2 MSD

Matrix: Water

Analysis Batch: 747817

Client Sample ID: RI-MW-5 MSD

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND	F1	25.0	34.2	F1	ug/L		137	73 - 126	7	15
1,1,2,2-Tetrachloroethane	ND		25.0	29.7		ug/L		119	76 - 120	6	15
1,1,2-Trichloroethane	ND		25.0	29.3		ug/L		117	76 - 122	7	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	30.3		ug/L		121	61 - 148	6	20
1,1-Dichloroethane	ND	F1	25.0	30.3	F1	ug/L		121	77 - 120	8	20
1,1-Dichloroethene	ND		25.0	30.1		ug/L		120	66 - 127	7	16
1,2,4-Trichlorobenzene	ND		25.0	30.2		ug/L		121	79 - 122	10	20
1,2-Dibromo-3-Chloropropane	ND		25.0	30.4		ug/L		122	56 - 134	9	15
1,2-Dichlorobenzene	ND		25.0	30.2		ug/L		121	80 - 124	7	20
1,2-Dichloroethane	ND		25.0	29.2		ug/L		117	75 - 120	7	20
1,2-Dichloropropane	ND	F1	25.0	30.6	F1	ug/L		122	76 - 120	8	20
1,3-Dichlorobenzene	ND		25.0	29.2		ug/L		117	77 - 120	8	20

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-229870-2 MSD

Matrix: Water

Analysis Batch: 747817

Client Sample ID: RI-MW-5 MSD

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene	ND		25.0	29.8		ug/L		119	78 - 124	8	20
2-Butanone (MEK)	ND		125	152		ug/L		122	57 - 140	5	20
2-Hexanone	ND		125	145		ug/L		116	65 - 127	5	15
4-Methyl-2-pentanone (MIBK)	ND		125	145		ug/L		116	71 - 125	5	35
Acetone	51		125	177		ug/L		101	56 - 142	5	15
Benzene	0.58	J	25.0	30.9		ug/L		121	71 - 124	8	13
Bromodichloromethane	ND	F1	25.0	30.7	F1	ug/L		123	80 - 122	8	15
Bromoform	ND	F1	25.0	33.5	F1	ug/L		134	61 - 132	9	15
Bromomethane	ND		25.0	33.8		ug/L		135	55 - 144	3	15
Carbon disulfide	0.45	J	25.0	29.5		ug/L		116	59 - 134	6	15
Carbon tetrachloride	ND	F1	25.0	38.0	F1	ug/L		152	72 - 134	8	15
Chlorobenzene	ND		25.0	30.0		ug/L		120	80 - 120	7	25
Dibromochloromethane	ND	F1	25.0	31.5	F1	ug/L		126	75 - 125	8	15
Chloroethane	ND		25.0	30.3		ug/L		121	69 - 136	5	15
Chloroform	ND		25.0	30.2		ug/L		121	73 - 127	7	20
Chloromethane	ND		25.0	30.0		ug/L		120	68 - 124	8	15
cis-1,2-Dichloroethene	ND		25.0	30.5		ug/L		122	74 - 124	7	15
cis-1,3-Dichloropropene	ND	F1	25.0	31.2	F1	ug/L		125	74 - 124	8	15
Cyclohexane	1.7		25.0	31.5		ug/L		119	59 - 135	4	20
Dichlorodifluoromethane	ND		25.0	29.0		ug/L		116	59 - 135	4	20
Ethylbenzene	ND		25.0	30.8		ug/L		123	77 - 123	6	15
1,2-Dibromoethane	ND		25.0	29.2		ug/L		117	77 - 120	8	15
Isopropylbenzene	ND	F1	25.0	32.0	F1	ug/L		128	77 - 122	8	20
Methyl acetate	ND		50.0	56.1		ug/L		112	74 - 133	4	20
Methyl tert-butyl ether	ND		25.0	28.9		ug/L		115	77 - 120	6	37
Methylcyclohexane	1.7		25.0	33.0		ug/L		125	68 - 134	6	20
Methylene Chloride	ND		25.0	30.2		ug/L		121	75 - 124	6	15
Styrene	ND	F1	25.0	30.5	F1	ug/L		122	80 - 120	6	20
Tetrachloroethene	ND	F1	25.0	31.2	F1	ug/L		125	74 - 122	6	20
Toluene	0.92	J	25.0	30.7		ug/L		119	80 - 122	7	15
trans-1,2-Dichloroethene	ND		25.0	31.3		ug/L		125	73 - 127	6	20
trans-1,3-Dichloropropene	ND	F1	25.0	30.7	F1	ug/L		123	80 - 120	9	15
Trichloroethene	ND		25.0	30.4		ug/L		122	74 - 123	8	16
Trichlorofluoromethane	ND		25.0	33.9		ug/L		136	62 - 150	7	20
Vinyl chloride	ND		25.0	31.5		ug/L		126	65 - 133	5	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	97		80 - 120
1,2-Dichloroethane-d4 (Surr)	98		77 - 120
4-Bromofluorobenzene (Surr)	101		73 - 120
Dibromofluoromethane (Surr)	100		75 - 123

QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-748102/1-A

Matrix: Water

Analysis Batch: 748269

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 748102

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		06/06/25 09:15	06/09/25 14:06	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		06/06/25 09:15	06/09/25 14:06	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		06/06/25 09:15	06/09/25 14:06	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		06/06/25 09:15	06/09/25 14:06	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		06/06/25 09:15	06/09/25 14:06	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		06/06/25 09:15	06/09/25 14:06	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		06/06/25 09:15	06/09/25 14:06	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		06/06/25 09:15	06/09/25 14:06	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		06/06/25 09:15	06/09/25 14:06	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		06/06/25 09:15	06/09/25 14:06	1
2-Chlorophenol	ND		5.0	0.53	ug/L		06/06/25 09:15	06/09/25 14:06	1
2-Methylphenol	ND		5.0	0.40	ug/L		06/06/25 09:15	06/09/25 14:06	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		06/06/25 09:15	06/09/25 14:06	1
2-Nitroaniline	ND		10	0.42	ug/L		06/06/25 09:15	06/09/25 14:06	1
2-Nitrophenol	ND		5.0	0.48	ug/L		06/06/25 09:15	06/09/25 14:06	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		06/06/25 09:15	06/09/25 14:06	1
3-Nitroaniline	ND		10	0.48	ug/L		06/06/25 09:15	06/09/25 14:06	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		06/06/25 09:15	06/09/25 14:06	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		06/06/25 09:15	06/09/25 14:06	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		06/06/25 09:15	06/09/25 14:06	1
4-Chloroaniline	ND		5.0	0.59	ug/L		06/06/25 09:15	06/09/25 14:06	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		06/06/25 09:15	06/09/25 14:06	1
4-Methylphenol	ND		10	0.36	ug/L		06/06/25 09:15	06/09/25 14:06	1
4-Nitroaniline	ND		10	0.25	ug/L		06/06/25 09:15	06/09/25 14:06	1
4-Nitrophenol	ND		10	1.5	ug/L		06/06/25 09:15	06/09/25 14:06	1
Acenaphthene	ND		5.0	0.41	ug/L		06/06/25 09:15	06/09/25 14:06	1
Acenaphthylene	ND		5.0	0.38	ug/L		06/06/25 09:15	06/09/25 14:06	1
Acetophenone	ND		5.0	0.54	ug/L		06/06/25 09:15	06/09/25 14:06	1
Anthracene	ND		5.0	0.28	ug/L		06/06/25 09:15	06/09/25 14:06	1
Atrazine	ND		5.0	0.46	ug/L		06/06/25 09:15	06/09/25 14:06	1
Benzaldehyde	ND		5.0	0.27	ug/L		06/06/25 09:15	06/09/25 14:06	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		06/06/25 09:15	06/09/25 14:06	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		06/06/25 09:15	06/09/25 14:06	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		06/06/25 09:15	06/09/25 14:06	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		06/06/25 09:15	06/09/25 14:06	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		06/06/25 09:15	06/09/25 14:06	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		06/06/25 09:15	06/09/25 14:06	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		06/06/25 09:15	06/09/25 14:06	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		06/06/25 09:15	06/09/25 14:06	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		06/06/25 09:15	06/09/25 14:06	1
Caprolactam	ND		5.0	2.2	ug/L		06/06/25 09:15	06/09/25 14:06	1
Carbazole	ND		5.0	0.30	ug/L		06/06/25 09:15	06/09/25 14:06	1
Chrysene	ND		5.0	0.33	ug/L		06/06/25 09:15	06/09/25 14:06	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		06/06/25 09:15	06/09/25 14:06	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		06/06/25 09:15	06/09/25 14:06	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		06/06/25 09:15	06/09/25 14:06	1
Dibenzofuran	ND		10	0.51	ug/L		06/06/25 09:15	06/09/25 14:06	1
Diethyl phthalate	ND		5.0	0.22	ug/L		06/06/25 09:15	06/09/25 14:06	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-748102/1-A

Matrix: Water

Analysis Batch: 748269

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 748102

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		5.0	0.36	ug/L		06/06/25 09:15	06/09/25 14:06	1
Fluoranthene	ND		5.0	0.40	ug/L		06/06/25 09:15	06/09/25 14:06	1
Fluorene	ND		5.0	0.36	ug/L		06/06/25 09:15	06/09/25 14:06	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		06/06/25 09:15	06/09/25 14:06	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		06/06/25 09:15	06/09/25 14:06	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		06/06/25 09:15	06/09/25 14:06	1
Hexachloroethane	ND		5.0	0.59	ug/L		06/06/25 09:15	06/09/25 14:06	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		06/06/25 09:15	06/09/25 14:06	1
Isophorone	ND		5.0	0.43	ug/L		06/06/25 09:15	06/09/25 14:06	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		06/06/25 09:15	06/09/25 14:06	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		06/06/25 09:15	06/09/25 14:06	1
Naphthalene	ND		5.0	0.76	ug/L		06/06/25 09:15	06/09/25 14:06	1
Nitrobenzene	ND		5.0	0.29	ug/L		06/06/25 09:15	06/09/25 14:06	1
Pentachlorophenol	ND		10	2.2	ug/L		06/06/25 09:15	06/09/25 14:06	1
Phenanthrene	ND		5.0	0.44	ug/L		06/06/25 09:15	06/09/25 14:06	1
Phenol	ND		5.0	0.39	ug/L		06/06/25 09:15	06/09/25 14:06	1
Pyrene	ND		5.0	0.34	ug/L		06/06/25 09:15	06/09/25 14:06	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
2-Propanone, 1-chloro-	3.95	T J N	ug/L		3.50	78-95-5	06/06/25 09:15	06/09/25 14:06	1
Pyridine	0.508	J	ug/L		4.04	110-86-1	06/06/25 09:15	06/09/25 14:06	1
Unknown	2.81	T J	ug/L		4.63	N/A	06/06/25 09:15	06/09/25 14:06	1
2-Hexene, 3,5,5-trimethyl-	2.29	T J N	ug/L		4.73	26456-76-8	06/06/25 09:15	06/09/25 14:06	1
Unknown	30.1	T J	ug/L		4.84	N/A	06/06/25 09:15	06/09/25 14:06	1
Unknown	2.53	T J	ug/L		4.89	N/A	06/06/25 09:15	06/09/25 14:06	1
Benzene, 1,3-dimethyl-	6.99	T J N	ug/L		5.18	108-38-3	06/06/25 09:15	06/09/25 14:06	1
Unknown	2.31	T J	ug/L		5.77	N/A	06/06/25 09:15	06/09/25 14:06	1
Unknown	3.05	T J	ug/L		12.43	N/A	06/06/25 09:15	06/09/25 14:06	1
Unknown	1.74	T J	ug/L		13.93	N/A	06/06/25 09:15	06/09/25 14:06	1
Unknown	1.75	T J	ug/L		14.01	N/A	06/06/25 09:15	06/09/25 14:06	1
Unknown	6.25	T J	ug/L		14.55	N/A	06/06/25 09:15	06/09/25 14:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	88		29 - 129	06/06/25 09:15	06/09/25 14:06	1
Phenol-d5 (Surr)	43		10 - 120	06/06/25 09:15	06/09/25 14:06	1
p-Terphenyl-d14 (Surr)	107		33 - 132	06/06/25 09:15	06/09/25 14:06	1
2,4,6-Tribromophenol (Surr)	98		25 - 144	06/06/25 09:15	06/09/25 14:06	1
2-Fluorobiphenyl (Surr)	99		53 - 126	06/06/25 09:15	06/09/25 14:06	1
2-Fluorophenol (Surr)	66		24 - 120	06/06/25 09:15	06/09/25 14:06	1

Lab Sample ID: LCS 480-748102/2-A

Matrix: Water

Analysis Batch: 748269

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 748102

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Biphenyl	32.0	31.1		ug/L		97	59 - 120
bis (2-chloroisopropyl) ether	32.0	31.7		ug/L		99	21 - 136
2,4,5-Trichlorophenol	32.0	35.8		ug/L		112	65 - 126

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-748102/2-A

Matrix: Water

Analysis Batch: 748269

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 748102

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,6-Trichlorophenol	32.0	30.2		ug/L		94	64 - 120
2,4-Dichlorophenol	32.0	31.8		ug/L		100	63 - 120
2,4-Dimethylphenol	32.0	33.4		ug/L		104	47 - 120
2,4-Dinitrophenol	64.0	74.2		ug/L		116	31 - 137
2,4-Dinitrotoluene	32.0	34.0		ug/L		106	69 - 120
2,6-Dinitrotoluene	32.0	34.1		ug/L		107	68 - 120
2-Chloronaphthalene	32.0	30.6		ug/L		96	58 - 120
2-Chlorophenol	32.0	29.9		ug/L		93	48 - 120
2-Methylphenol	32.0	28.9		ug/L		90	39 - 120
2-Methylnaphthalene	32.0	30.3		ug/L		95	59 - 120
2-Nitroaniline	32.0	32.7		ug/L		102	54 - 127
2-Nitrophenol	32.0	36.0		ug/L		112	52 - 125
3,3'-Dichlorobenzidine	32.0	22.3		ug/L		70	49 - 135
3-Nitroaniline	32.0	28.8		ug/L		90	51 - 120
4,6-Dinitro-2-methylphenol	64.0	80.0		ug/L		125	46 - 136
4-Bromophenyl phenyl ether	32.0	32.7		ug/L		102	65 - 120
4-Chloro-3-methylphenol	32.0	32.0		ug/L		100	61 - 123
4-Chloroaniline	32.0	19.7		ug/L		61	30 - 120
4-Chlorophenyl phenyl ether	32.0	32.7		ug/L		102	62 - 120
4-Methylphenol	32.0	27.0		ug/L		84	29 - 131
4-Nitroaniline	32.0	29.6		ug/L		92	65 - 120
4-Nitrophenol	64.0	46.5		ug/L		73	45 - 120
Acenaphthene	32.0	32.7		ug/L		102	60 - 120
Acenaphthylene	32.0	31.4		ug/L		98	63 - 120
Acetophenone	32.0	32.0		ug/L		100	45 - 120
Anthracene	32.0	36.1		ug/L		113	67 - 120
Atrazine	32.0	30.7		ug/L		96	71 - 130
Benzaldehyde	32.0	23.6		ug/L		74	10 - 140
Benzo[a]anthracene	32.0	32.7		ug/L		102	70 - 121
Benzo[a]pyrene	32.0	32.0		ug/L		100	60 - 123
Benzo[b]fluoranthene	32.0	32.0		ug/L		100	66 - 126
Benzo[g,h,i]perylene	32.0	32.7		ug/L		102	66 - 150
Benzo[k]fluoranthene	32.0	34.6		ug/L		108	65 - 124
Bis(2-chloroethoxy)methane	32.0	32.1		ug/L		100	50 - 128
Bis(2-chloroethyl)ether	32.0	37.6		ug/L		117	44 - 120
Bis(2-ethylhexyl) phthalate	32.0	29.5		ug/L		92	63 - 139
Butyl benzyl phthalate	32.0	30.5		ug/L		95	70 - 129
Caprolactam	32.0	7.68		ug/L		24	22 - 120
Carbazole	32.0	38.2		ug/L		119	66 - 147
Chrysene	32.0	32.7		ug/L		102	69 - 120
Dibenz(a,h)anthracene	32.0	31.7		ug/L		99	65 - 135
Di-n-butyl phthalate	32.0	32.8		ug/L		102	69 - 131
Di-n-octyl phthalate	32.0	28.6		ug/L		89	63 - 140
Dibenzofuran	32.0	32.8		ug/L		103	66 - 120
Diethyl phthalate	32.0	35.6		ug/L		111	59 - 127
Dimethyl phthalate	32.0	33.7		ug/L		105	68 - 120
Fluoranthene	32.0	36.0		ug/L		113	69 - 126
Fluorene	32.0	34.2		ug/L		107	66 - 120
Hexachlorobenzene	32.0	34.4		ug/L		107	61 - 120

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-748102/2-A

Matrix: Water

Analysis Batch: 748269

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 748102

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorobutadiene	32.0	26.1		ug/L		82	35 - 120
Hexachlorocyclopentadiene	32.0	18.0		ug/L		56	31 - 120
Hexachloroethane	32.0	27.5		ug/L		86	33 - 120
Indeno[1,2,3-cd]pyrene	32.0	31.6		ug/L		99	69 - 146
Isophorone	32.0	32.5		ug/L		102	55 - 120
N-Nitrosodi-n-propylamine	32.0	31.2		ug/L		97	32 - 140
N-Nitrosodiphenylamine	32.0	33.4		ug/L		105	61 - 120
Naphthalene	32.0	30.8		ug/L		96	57 - 120
Nitrobenzene	32.0	31.8		ug/L		99	53 - 123
Pentachlorophenol	64.0	66.1		ug/L		103	10 - 136
Phenanthrene	32.0	33.8		ug/L		106	68 - 120
Phenol	32.0	17.2		ug/L		54	17 - 120
Pyrene	32.0	34.1		ug/L		106	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5 (Surr)	98		29 - 129
Phenol-d5 (Surr)	53		10 - 120
p-Terphenyl-d14 (Surr)	99		33 - 132
2,4,6-Tribromophenol (Surr)	111		25 - 144
2-Fluorobiphenyl (Surr)	103		53 - 126
2-Fluorophenol (Surr)	71		24 - 120

Lab Sample ID: 480-229870-2 MS

Matrix: Water

Analysis Batch: 748269

Client Sample ID: RI-MW-5 MS

Prep Type: Total/NA

Prep Batch: 748102

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Biphenyl	ND		33.3	34.5		ug/L		104	57 - 120
bis (2-chloroisopropyl) ether	ND		33.3	35.2		ug/L		106	28 - 121
2,4,5-Trichlorophenol	ND		33.3	39.1		ug/L		117	65 - 126
2,4,6-Trichlorophenol	ND		33.3	37.1		ug/L		111	64 - 120
2,4-Dichlorophenol	ND		33.3	34.5		ug/L		103	48 - 132
2,4-Dimethylphenol	ND		33.3	35.1		ug/L		105	39 - 130
2,4-Dinitrophenol	ND		66.7	82.2		ug/L		123	21 - 150
2,4-Dinitrotoluene	ND		33.3	36.9		ug/L		111	54 - 138
2,6-Dinitrotoluene	ND		33.3	37.2		ug/L		112	17 - 150
2-Chloronaphthalene	ND		33.3	34.1		ug/L		102	52 - 124
2-Chlorophenol	ND		33.3	32.3		ug/L		97	48 - 120
2-Methylphenol	ND		33.3	33.2		ug/L		100	46 - 120
2-Methylnaphthalene	ND		33.3	32.7		ug/L		98	34 - 140
2-Nitroaniline	ND		33.3	35.9		ug/L		108	44 - 136
2-Nitrophenol	ND		33.3	37.2		ug/L		112	38 - 141
3,3'-Dichlorobenzidine	ND	F2	33.3	9.88		ug/L		30	10 - 150
3-Nitroaniline	ND		33.3	31.7		ug/L		95	32 - 150
4,6-Dinitro-2-methylphenol	ND		66.7	85.8		ug/L		129	38 - 150
4-Bromophenyl phenyl ether	ND		33.3	34.3		ug/L		103	63 - 126
4-Chloro-3-methylphenol	ND		33.3	33.8		ug/L		101	64 - 127
4-Chloroaniline	ND		33.3	14.6		ug/L		44	16 - 124

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-229870-2 MS

Matrix: Water

Analysis Batch: 748269

Client Sample ID: RI-MW-5 MS

Prep Type: Total/NA

Prep Batch: 748102

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chlorophenyl phenyl ether	ND		33.3	36.1		ug/L		108	61 - 120
4-Methylphenol	0.55	J	33.3	29.8		ug/L		88	36 - 120
4-Nitroaniline	ND		33.3	30.2		ug/L		91	32 - 150
4-Nitrophenol	ND		66.7	52.4		ug/L		79	23 - 132
Acenaphthene	ND		33.3	36.8		ug/L		110	48 - 120
Acenaphthylene	ND		33.3	34.6		ug/L		104	63 - 120
Acetophenone	1.6	J	33.3	35.5		ug/L		102	53 - 120
Anthracene	ND		33.3	37.9		ug/L		114	65 - 122
Atrazine	ND		33.3	33.8		ug/L		101	50 - 150
Benzaldehyde	ND		33.3	26.1		ug/L		78	10 - 150
Benzo[a]anthracene	ND		33.3	29.2		ug/L		88	43 - 124
Benzo[a]pyrene	ND		33.3	26.9		ug/L		81	23 - 125
Benzo[b]fluoranthene	ND		33.3	27.6		ug/L		83	27 - 127
Benzo[g,h,i]perylene	ND		33.3	26.6		ug/L		80	16 - 147
Benzo[k]fluoranthene	ND		33.3	27.9		ug/L		84	20 - 124
Bis(2-chloroethoxy)methane	ND		33.3	34.3		ug/L		103	44 - 128
Bis(2-chloroethyl)ether	ND	F1	33.3	41.1	F1	ug/L		123	45 - 120
Bis(2-ethylhexyl) phthalate	ND		33.3	23.9		ug/L		72	16 - 150
Butyl benzyl phthalate	ND		33.3	30.5		ug/L		91	51 - 140
Caprolactam	ND		33.3	8.51		ug/L		26	10 - 120
Carbazole	ND		33.3	42.4		ug/L		127	16 - 148
Chrysene	ND		33.3	28.5		ug/L		86	44 - 122
Dibenz(a,h)anthracene	ND		33.3	25.8		ug/L		77	16 - 139
Di-n-butyl phthalate	0.65	J	33.3	33.2		ug/L		98	65 - 129
Di-n-octyl phthalate	ND		33.3	23.7		ug/L		71	16 - 150
Dibenzofuran	ND		33.3	36.4		ug/L		109	60 - 120
Diethyl phthalate	0.41	J	33.3	38.8		ug/L		115	53 - 133
Dimethyl phthalate	ND		33.3	36.9		ug/L		111	59 - 123
Fluoranthene	ND		33.3	37.0		ug/L		111	63 - 129
Fluorene	ND		33.3	37.4		ug/L		112	62 - 120
Hexachlorobenzene	ND		33.3	34.8		ug/L		104	57 - 121
Hexachlorobutadiene	ND		33.3	28.1		ug/L		84	37 - 120
Hexachlorocyclopentadiene	ND		33.3	21.3		ug/L		64	21 - 120
Hexachloroethane	ND		33.3	30.9		ug/L		93	16 - 130
Indeno[1,2,3-cd]pyrene	ND		33.3	25.7		ug/L		77	16 - 140
Isophorone	ND		33.3	34.7		ug/L		104	48 - 133
N-Nitrosodi-n-propylamine	ND		33.3	34.5		ug/L		103	49 - 120
N-Nitrosodiphenylamine	ND		33.3	34.7		ug/L		104	39 - 138
Naphthalene	ND		33.3	32.8		ug/L		99	45 - 120
Nitrobenzene	ND		33.3	34.0		ug/L		102	45 - 123
Pentachlorophenol	ND		66.7	75.2		ug/L		113	10 - 149
Phenanthrene	ND		33.3	37.2		ug/L		112	65 - 122
Phenol	ND		33.3	19.3		ug/L		58	16 - 120
Pyrene	ND		33.3	35.1		ug/L		105	58 - 128

Surrogate	MS %Recovery	MS Qualifier	Limits
Nitrobenzene-d5 (Surr)	102		29 - 129
Phenol-d5 (Surr)	55		10 - 120

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-229870-2 MS

Matrix: Water

Analysis Batch: 748269

Client Sample ID: RI-MW-5 MS

Prep Type: Total/NA

Prep Batch: 748102

Surrogate	MS %Recovery	MS Qualifier	Limits
p-Terphenyl-d14 (Surr)	71		33 - 132
2,4,6-Tribromophenol (Surr)	114		25 - 144
2-Fluorobiphenyl (Surr)	108		53 - 126
2-Fluorophenol (Surr)	73		24 - 120

Lab Sample ID: 480-229870-2 MSD

Matrix: Water

Analysis Batch: 748269

Client Sample ID: RI-MW-5 MSD

Prep Type: Total/NA

Prep Batch: 748102

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Biphenyl	ND		33.3	33.5		ug/L		101	57 - 120	3	20
bis (2-chloroisopropyl) ether	ND		33.3	34.0		ug/L		102	28 - 121	4	24
2,4,5-Trichlorophenol	ND		33.3	37.9		ug/L		114	65 - 126	3	18
2,4,6-Trichlorophenol	ND		33.3	31.8		ug/L		95	64 - 120	15	19
2,4-Dichlorophenol	ND		33.3	33.3		ug/L		100	48 - 132	4	19
2,4-Dimethylphenol	ND		33.3	34.2		ug/L		103	39 - 130	3	42
2,4-Dinitrophenol	ND		66.7	82.4		ug/L		124	21 - 150	0	22
2,4-Dinitrotoluene	ND		33.3	34.9		ug/L		105	54 - 138	6	20
2,6-Dinitrotoluene	ND		33.3	35.3		ug/L		106	17 - 150	5	15
2-Chloronaphthalene	ND		33.3	32.6		ug/L		98	52 - 124	5	21
2-Chlorophenol	ND		33.3	31.5		ug/L		94	48 - 120	3	25
2-Methylphenol	ND		33.3	31.6		ug/L		95	46 - 120	5	27
2-Methylnaphthalene	ND		33.3	31.6		ug/L		95	34 - 140	3	21
2-Nitroaniline	ND		33.3	32.9		ug/L		99	44 - 136	9	15
2-Nitrophenol	ND		33.3	36.2		ug/L		109	38 - 141	3	18
3,3'-Dichlorobenzidine	ND	F2	33.3	12.8	F2	ug/L		38	10 - 150	26	25
3-Nitroaniline	ND		33.3	31.5		ug/L		94	32 - 150	1	19
4,6-Dinitro-2-methylphenol	ND		66.7	85.6		ug/L		128	38 - 150	0	15
4-Bromophenyl phenyl ether	ND		33.3	33.9		ug/L		102	63 - 126	1	15
4-Chloro-3-methylphenol	ND		33.3	33.0		ug/L		99	64 - 127	2	27
4-Chloroaniline	ND		33.3	17.1		ug/L		51	16 - 124	16	22
4-Chlorophenyl phenyl ether	ND		33.3	34.7		ug/L		104	61 - 120	4	16
4-Methylphenol	0.55	J	33.3	28.8		ug/L		85	36 - 120	3	24
4-Nitroaniline	ND		33.3	35.2		ug/L		106	32 - 150	15	24
4-Nitrophenol	ND		66.7	61.0		ug/L		91	23 - 132	15	48
Acenaphthene	ND		33.3	35.6		ug/L		107	48 - 120	3	24
Acenaphthylene	ND		33.3	33.1		ug/L		99	63 - 120	4	18
Acetophenone	1.6	J	33.3	33.7		ug/L		96	53 - 120	5	20
Anthracene	ND		33.3	37.7		ug/L		113	65 - 122	1	15
Atrazine	ND		33.3	32.9		ug/L		99	50 - 150	3	20
Benzaldehyde	ND		33.3	24.5		ug/L		73	10 - 150	6	20
Benzo[a]anthracene	ND		33.3	30.0		ug/L		90	43 - 124	2	15
Benzo[a]pyrene	ND		33.3	25.7		ug/L		77	23 - 125	4	15
Benzo[b]fluoranthene	ND		33.3	26.3		ug/L		79	27 - 127	5	15
Benzo[g,h,i]perylene	ND		33.3	25.4		ug/L		76	16 - 147	4	15
Benzo[k]fluoranthene	ND		33.3	26.6		ug/L		80	20 - 124	5	22
Bis(2-chloroethoxy)methane	ND		33.3	33.8		ug/L		101	44 - 128	2	17
Bis(2-chloroethyl)ether	ND	F1	33.3	39.3		ug/L		118	45 - 120	4	21

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-229870-2 MSD

Matrix: Water

Analysis Batch: 748269

Client Sample ID: RI-MW-5 MSD

Prep Type: Total/NA

Prep Batch: 748102

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bis(2-ethylhexyl) phthalate	ND		33.3	24.0		ug/L		72	16 - 150	0	15
Butyl benzyl phthalate	ND		33.3	30.5		ug/L		91	51 - 140	0	16
Caprolactam	ND		33.3	7.92		ug/L		24	10 - 120	7	20
Carbazole	ND		33.3	40.9		ug/L		123	16 - 148	4	20
Chrysene	ND		33.3	28.8		ug/L		86	44 - 122	1	15
Dibenz(a,h)anthracene	ND		33.3	24.5		ug/L		74	16 - 139	5	15
Di-n-butyl phthalate	0.65	J	33.3	32.8		ug/L		97	65 - 129	1	15
Di-n-octyl phthalate	ND		33.3	23.7		ug/L		71	16 - 150	0	16
Dibenzofuran	ND		33.3	34.7		ug/L		104	60 - 120	5	15
Diethyl phthalate	0.41	J	33.3	37.1		ug/L		110	53 - 133	4	15
Dimethyl phthalate	ND		33.3	35.4		ug/L		106	59 - 123	4	15
Fluoranthene	ND		33.3	36.2		ug/L		109	63 - 129	2	15
Fluorene	ND		33.3	36.3		ug/L		109	62 - 120	3	15
Hexachlorobenzene	ND		33.3	34.4		ug/L		103	57 - 121	1	15
Hexachlorobutadiene	ND		33.3	28.6		ug/L		86	37 - 120	2	44
Hexachlorocyclopentadiene	ND		33.3	20.8		ug/L		62	21 - 120	2	49
Hexachloroethane	ND		33.3	29.7		ug/L		89	16 - 130	4	46
Indeno[1,2,3-cd]pyrene	ND		33.3	24.7		ug/L		74	16 - 140	4	15
Isophorone	ND		33.3	33.7		ug/L		101	48 - 133	3	17
N-Nitrosodi-n-propylamine	ND		33.3	32.7		ug/L		98	49 - 120	5	31
N-Nitrosodiphenylamine	ND		33.3	34.5		ug/L		104	39 - 138	0	15
Naphthalene	ND		33.3	31.9		ug/L		96	45 - 120	3	29
Nitrobenzene	ND		33.3	34.1		ug/L		102	45 - 123	0	24
Pentachlorophenol	ND		66.7	74.8		ug/L		112	10 - 149	1	37
Phenanthrene	ND		33.3	36.4		ug/L		109	65 - 122	2	15
Phenol	ND		33.3	18.8		ug/L		56	16 - 120	3	34
Pyrene	ND		33.3	35.3		ug/L		106	58 - 128	0	19

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Nitrobenzene-d5 (Surr)	100		29 - 129
Phenol-d5 (Surr)	53		10 - 120
p-Terphenyl-d14 (Surr)	76		33 - 132
2,4,6-Tribromophenol (Surr)	114		25 - 144
2-Fluorobiphenyl (Surr)	104		53 - 126
2-Fluorophenol (Surr)	71		24 - 120

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 480-748017/1-A

Matrix: Water

Analysis Batch: 748083

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 748017

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		06/05/25 13:38	06/06/25 11:01	1
Isotope Dilution	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	30		15 - 110				06/05/25 13:38	06/06/25 11:01	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

(Continued)

Lab Sample ID: LCS 480-748017/2-A

Matrix: Water

Analysis Batch: 748083

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 748017

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane			2.00	2.20		ug/L		110	40 - 140
	LCS	LCS							
Isotope Dilution	%Recovery	Qualifier	Limits						
1,4-Dioxane-d8	31		15 - 110						

Lab Sample ID: 480-229870-2 MS

Matrix: Water

Analysis Batch: 748083

Client Sample ID: RI-MW-5 MS

Prep Type: Total/NA

Prep Batch: 748017

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	0.15	J	2.00	2.30		ug/L		107	40 - 140
	MS	MS							
Isotope Dilution	%Recovery	Qualifier	Limits						
1,4-Dioxane-d8	32		15 - 110						

Lab Sample ID: 480-229870-2 MSD

Matrix: Water

Analysis Batch: 748083

Client Sample ID: RI-MW-5 MSD

Prep Type: Total/NA

Prep Batch: 748017

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	0.15	J	2.00	2.38		ug/L		112	40 - 140	4	20
	MSD	MSD									
Isotope Dilution	%Recovery	Qualifier	Limits								
1,4-Dioxane-d8	31		15 - 110								

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-748149/1-A

Matrix: Water

Analysis Batch: 748247

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 748149

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		06/06/25 13:24	06/09/25 09:23	1
4,4'-DDE	ND		0.050	0.012	ug/L		06/06/25 13:24	06/09/25 09:23	1
4,4'-DDT	ND		0.050	0.011	ug/L		06/06/25 13:24	06/09/25 09:23	1
Aldrin	ND		0.050	0.0081	ug/L		06/06/25 13:24	06/09/25 09:23	1
alpha-BHC	ND		0.050	0.0077	ug/L		06/06/25 13:24	06/09/25 09:23	1
cis-Chlordane	ND		0.050	0.015	ug/L		06/06/25 13:24	06/09/25 09:23	1
beta-BHC	ND		0.050	0.025	ug/L		06/06/25 13:24	06/09/25 09:23	1
delta-BHC	ND		0.050	0.010	ug/L		06/06/25 13:24	06/09/25 09:23	1
Dieldrin	ND		0.050	0.0098	ug/L		06/06/25 13:24	06/09/25 09:23	1
Endosulfan I	ND		0.050	0.011	ug/L		06/06/25 13:24	06/09/25 09:23	1
Endosulfan II	ND		0.050	0.012	ug/L		06/06/25 13:24	06/09/25 09:23	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		06/06/25 13:24	06/09/25 09:23	1
Endrin	ND		0.050	0.014	ug/L		06/06/25 13:24	06/09/25 09:23	1
Endrin aldehyde	ND		0.050	0.016	ug/L		06/06/25 13:24	06/09/25 09:23	1
Endrin ketone	ND		0.050	0.012	ug/L		06/06/25 13:24	06/09/25 09:23	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		06/06/25 13:24	06/09/25 09:23	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 480-748149/1-A

Matrix: Water

Analysis Batch: 748247

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 748149

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-Chlordane	ND		0.050	0.011	ug/L		06/06/25 13:24	06/09/25 09:23	1
Heptachlor	ND		0.050	0.0085	ug/L		06/06/25 13:24	06/09/25 09:23	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		06/06/25 13:24	06/09/25 09:23	1
Methoxychlor	ND		0.050	0.014	ug/L		06/06/25 13:24	06/09/25 09:23	1
Toxaphene	ND		0.50	0.12	ug/L		06/06/25 13:24	06/09/25 09:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	100		10 - 120	06/06/25 13:24	06/09/25 09:23	1
DCB Decachlorobiphenyl	94		10 - 120	06/06/25 13:24	06/09/25 09:23	1
Tetrachloro-m-xylene	92		10 - 120	06/06/25 13:24	06/09/25 09:23	1
Tetrachloro-m-xylene	83		10 - 120	06/06/25 13:24	06/09/25 09:23	1

Lab Sample ID: LCS 480-748149/2-A

Matrix: Water

Analysis Batch: 748247

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 748149

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.400	0.360		ug/L		90	66 - 143
4,4'-DDE	0.400	0.367		ug/L		92	50 - 125
4,4'-DDT	0.400	0.339		ug/L		85	64 - 138
Aldrin	0.400	0.328		ug/L		82	26 - 120
alpha-BHC	0.400	0.351		ug/L		88	34 - 120
cis-Chlordane	0.400	0.356		ug/L		89	51 - 127
beta-BHC	0.400	0.355		ug/L		89	53 - 132
delta-BHC	0.400	0.363		ug/L		91	47 - 131
Dieldrin	0.400	0.380		ug/L		95	64 - 142
Endosulfan I	0.400	0.412		ug/L		103	48 - 140
Endosulfan II	0.400	0.382		ug/L		96	71 - 146
Endosulfan sulfate	0.400	0.418		ug/L		104	48 - 153
Endrin	0.400	0.368		ug/L		92	63 - 142
Endrin aldehyde	0.400	0.350		ug/L		87	50 - 142
Endrin ketone	0.400	0.434		ug/L		109	73 - 146
gamma-BHC (Lindane)	0.400	0.351		ug/L		88	42 - 128
trans-Chlordane	0.400	0.357		ug/L		89	47 - 131
Heptachlor	0.400	0.354		ug/L		88	44 - 125
Heptachlor epoxide	0.400	0.422		ug/L		105	63 - 142
Methoxychlor	0.400	0.415		ug/L		104	54 - 158

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	108		10 - 120
DCB Decachlorobiphenyl	88		10 - 120
Tetrachloro-m-xylene	94		10 - 120
Tetrachloro-m-xylene	87		10 - 120

QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-229870-2 MS

Matrix: Water

Analysis Batch: 748247

Client Sample ID: RI-MW-5 MS

Prep Type: Total/NA

Prep Batch: 748149

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	ND		0.400	0.343		ug/L		86	57 - 130
4,4'-DDE	ND		0.400	0.327		ug/L		82	39 - 120
4,4'-DDT	ND		0.400	0.326		ug/L		82	37 - 130
Aldrin	ND		0.400	0.306		ug/L		77	39 - 125
alpha-BHC	0.0087	J	0.400	0.325		ug/L		79	48 - 120
cis-Chlordane	ND		0.400	0.331		ug/L		83	44 - 120
beta-BHC	ND		0.400	0.331		ug/L		83	49 - 120
delta-BHC	ND		0.400	0.339		ug/L		85	50 - 120
Dieldrin	ND		0.400	0.356		ug/L		89	56 - 130
Endosulfan I	ND		0.400	0.386		ug/L		96	40 - 126
Endosulfan II	ND		0.400	0.378		ug/L		94	59 - 140
Endosulfan sulfate	ND		0.400	0.410		ug/L		103	60 - 134
Endrin	ND		0.400	0.358		ug/L		90	54 - 135
Endrin aldehyde	ND		0.400	0.345		ug/L		86	50 - 142
Endrin ketone	ND		0.400	0.423		ug/L		106	57 - 138
gamma-BHC (Lindane)	ND		0.400	0.312		ug/L		78	50 - 120
trans-Chlordane	ND		0.400	0.320		ug/L		80	42 - 120
Heptachlor	ND		0.400	0.335		ug/L		84	56 - 120
Heptachlor epoxide	ND		0.400	0.389		ug/L		97	58 - 125
Methoxychlor	0.016	J	0.400	0.397		ug/L		95	40 - 150
Surrogate	MS %Recovery	MS Qualifier	MS Limits						
DCB Decachlorobiphenyl	96		10 - 120						
DCB Decachlorobiphenyl	67		10 - 120						
Tetrachloro-m-xylene	87		10 - 120						
Tetrachloro-m-xylene	83		10 - 120						

Lab Sample ID: 480-229870-2 MSD

Matrix: Water

Analysis Batch: 748247

Client Sample ID: RI-MW-5 MSD

Prep Type: Total/NA

Prep Batch: 748149

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	ND		0.400	0.329		ug/L		82	57 - 130	4	23
4,4'-DDE	ND		0.400	0.320		ug/L		80	39 - 120	2	22
4,4'-DDT	ND		0.400	0.322		ug/L		81	37 - 130	1	24
Aldrin	ND		0.400	0.295		ug/L		74	39 - 125	4	25
alpha-BHC	0.0087	J	0.400	0.308		ug/L		75	48 - 120	5	24
cis-Chlordane	ND		0.400	0.342		ug/L		86	44 - 120	3	23
beta-BHC	ND		0.400	0.321		ug/L		80	49 - 120	3	24
delta-BHC	ND		0.400	0.326		ug/L		82	50 - 120	4	24
Dieldrin	ND		0.400	0.345		ug/L		86	56 - 130	3	24
Endosulfan I	ND		0.400	0.369		ug/L		92	40 - 126	4	30
Endosulfan II	ND		0.400	0.358		ug/L		90	59 - 140	5	40
Endosulfan sulfate	ND		0.400	0.387		ug/L		97	60 - 134	6	24
Endrin	ND		0.400	0.341		ug/L		85	54 - 135	5	24
Endrin aldehyde	ND		0.400	0.313		ug/L		78	50 - 142	10	28
Endrin ketone	ND		0.400	0.399		ug/L		100	57 - 138	6	26
gamma-BHC (Lindane)	ND		0.400	0.291		ug/L		73	50 - 120	7	24

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-229870-2 MSD

Matrix: Water

Analysis Batch: 748247

Client Sample ID: RI-MW-5 MSD

Prep Type: Total/NA

Prep Batch: 748149

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-Chlordane	ND		0.400	0.304		ug/L		76	42 - 120	5	24
Heptachlor	ND		0.400	0.322		ug/L		80	56 - 120	4	25
Heptachlor epoxide	ND		0.400	0.371		ug/L		93	58 - 125	5	23
Methoxychlor	0.016	J	0.400	0.387		ug/L		93	40 - 150	2	26

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	86		10 - 120
DCB Decachlorobiphenyl	71		10 - 120
Tetrachloro-m-xylene	88		10 - 120
Tetrachloro-m-xylene	80		10 - 120

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-748243/1-A

Matrix: Water

Analysis Batch: 748352

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 748243

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		06/09/25 08:25	06/10/25 09:47	1
PCB-1221	ND		0.50	0.18	ug/L		06/09/25 08:25	06/10/25 09:47	1
PCB-1232	ND		0.50	0.18	ug/L		06/09/25 08:25	06/10/25 09:47	1
PCB-1242	ND		0.50	0.18	ug/L		06/09/25 08:25	06/10/25 09:47	1
PCB-1248	ND		0.50	0.18	ug/L		06/09/25 08:25	06/10/25 09:47	1
PCB-1254	ND		0.50	0.25	ug/L		06/09/25 08:25	06/10/25 09:47	1
PCB-1260	ND		0.50	0.25	ug/L		06/09/25 08:25	06/10/25 09:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	78		10 - 145	06/09/25 08:25	06/10/25 09:47	1
Tetrachloro-m-xylene	75		10 - 145	06/09/25 08:25	06/10/25 09:47	1
DCB Decachlorobiphenyl	115		10 - 123	06/09/25 08:25	06/10/25 09:47	1
DCB Decachlorobiphenyl	102		10 - 123	06/09/25 08:25	06/10/25 09:47	1

Lab Sample ID: LCS 480-748243/2-A

Matrix: Water

Analysis Batch: 748352

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 748243

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	4.00	3.45		ug/L		86	62 - 130
PCB-1260	4.00	3.52		ug/L		88	56 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	88		10 - 145
Tetrachloro-m-xylene	80		10 - 145
DCB Decachlorobiphenyl	101		10 - 123
DCB Decachlorobiphenyl	81		10 - 123

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 480-229870-2 MS

Matrix: Water

Analysis Batch: 748352

Client Sample ID: RI-MW-5 MS

Prep Type: Total/NA

Prep Batch: 748243

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	ND		4.00	3.42		ug/L		86	28 - 150
PCB-1260	ND		4.00	3.28		ug/L		82	25 - 131
Surrogate	MS %Recovery	MS Qualifier	MS Limits						
Tetrachloro-m-xylene	85		10 - 145						
Tetrachloro-m-xylene	79		10 - 145						
DCB Decachlorobiphenyl	73		10 - 123						
DCB Decachlorobiphenyl	61		10 - 123						

Lab Sample ID: 480-229870-2 MSD

Matrix: Water

Analysis Batch: 748352

Client Sample ID: RI-MW-5 MSD

Prep Type: Total/NA

Prep Batch: 748243

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	ND		4.00	3.42		ug/L		85	28 - 150	15	50
PCB-1260	ND		4.00	3.27		ug/L		82	25 - 131	11	50
Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits								
Tetrachloro-m-xylene	88		10 - 145								
Tetrachloro-m-xylene	78		10 - 145								
DCB Decachlorobiphenyl	69		10 - 123								
DCB Decachlorobiphenyl	59		10 - 123								

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 410-653903/9-A

Matrix: Water

Analysis Batch: 654159

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 653903

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.0	1.1	ng/L		06/06/25 08:29	06/07/25 12:15	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.60	ng/L		06/06/25 08:29	06/07/25 12:15	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.50	ng/L		06/06/25 08:29	06/07/25 12:15	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.80	ng/L		06/06/25 08:29	06/07/25 12:15	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.90	ng/L		06/06/25 08:29	06/07/25 12:15	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.50	ng/L		06/06/25 08:29	06/07/25 12:15	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.50	ng/L		06/06/25 08:29	06/07/25 12:15	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.50	ng/L		06/06/25 08:29	06/07/25 12:15	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.50	ng/L		06/06/25 08:29	06/07/25 12:15	1
Perfluorotridecanoic acid (PFTTrDA)	ND		2.0	0.50	ng/L		06/06/25 08:29	06/07/25 12:15	1
Perfluorotetradecanoic acid (PFTeDA)	ND		2.0	0.50	ng/L		06/06/25 08:29	06/07/25 12:15	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.50	ng/L		06/06/25 08:29	06/07/25 12:15	1
Perfluoropentanesulfonic acid (PFPeS)	ND		2.0	0.50	ng/L		06/06/25 08:29	06/07/25 12:15	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.80	ng/L		06/06/25 08:29	06/07/25 12:15	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		2.0	0.50	ng/L		06/06/25 08:29	06/07/25 12:15	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.50	ng/L		06/06/25 08:29	06/07/25 12:15	1
Perfluorononanesulfonic acid (PFNS)	ND		2.0	0.50	ng/L		06/06/25 08:29	06/07/25 12:15	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 410-653903/9-A

Matrix: Water

Analysis Batch: 654159

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 653903

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.50	ng/L		06/06/25 08:29	06/07/25 12:15	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.60	ng/L		06/06/25 08:29	06/07/25 12:15	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		4.0	1.0	ng/L		06/06/25 08:29	06/07/25 12:15	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		4.0	1.0	ng/L		06/06/25 08:29	06/07/25 12:15	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		4.0	1.0	ng/L		06/06/25 08:29	06/07/25 12:15	1
Perfluorooctanesulfonamide (PFOSA)	ND		2.0	0.50	ng/L		06/06/25 08:29	06/07/25 12:15	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		2.0	0.50	ng/L		06/06/25 08:29	06/07/25 12:15	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		2.0	0.50	ng/L		06/06/25 08:29	06/07/25 12:15	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.50	ng/L		06/06/25 08:29	06/07/25 12:15	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.50	ng/L		06/06/25 08:29	06/07/25 12:15	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		10	2.5	ng/L		06/06/25 08:29	06/07/25 12:15	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		10	2.5	ng/L		06/06/25 08:29	06/07/25 12:15	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		2.0	0.75	ng/L		06/06/25 08:29	06/07/25 12:15	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.50	ng/L		06/06/25 08:29	06/07/25 12:15	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		2.0	0.50	ng/L		06/06/25 08:29	06/07/25 12:15	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		2.0	0.50	ng/L		06/06/25 08:29	06/07/25 12:15	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		2.0	0.50	ng/L		06/06/25 08:29	06/07/25 12:15	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		2.0	0.50	ng/L		06/06/25 08:29	06/07/25 12:15	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		2.0	0.50	ng/L		06/06/25 08:29	06/07/25 12:15	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		2.0	0.50	ng/L		06/06/25 08:29	06/07/25 12:15	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		4.0	1.0	ng/L		06/06/25 08:29	06/07/25 12:15	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		10	2.8	ng/L		06/06/25 08:29	06/07/25 12:15	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		10	2.5	ng/L		06/06/25 08:29	06/07/25 12:15	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	98.1		5 - 130	06/06/25 08:29	06/07/25 12:15	1
13C5-PFPeA	107		40 - 130	06/06/25 08:29	06/07/25 12:15	1
13C5-PFHxA	97.2		40 - 130	06/06/25 08:29	06/07/25 12:15	1
13C4-PFHpA	94.9		40 - 130	06/06/25 08:29	06/07/25 12:15	1
13C8-PFOA	84.3		40 - 130	06/06/25 08:29	06/07/25 12:15	1
13C9-PFNA	89.9		40 - 130	06/06/25 08:29	06/07/25 12:15	1
13C6-PFDA	94.0		40 - 130	06/06/25 08:29	06/07/25 12:15	1
13C7-PFUnA	91.2		30 - 130	06/06/25 08:29	06/07/25 12:15	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 410-653903/9-A

Matrix: Water

Analysis Batch: 654159

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 653903

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2-PFTeDA	103		10 - 130	06/06/25 08:29	06/07/25 12:15	1
13C3-PFBS	93.3		40 - 135	06/06/25 08:29	06/07/25 12:15	1
13C3-PFHxS	88.3		40 - 130	06/06/25 08:29	06/07/25 12:15	1
13C8-PFOS	88.7		40 - 130	06/06/25 08:29	06/07/25 12:15	1
13C8-PFOSA	97.4		40 - 130	06/06/25 08:29	06/07/25 12:15	1
d3-NMeFOSAA	85.5		40 - 170	06/06/25 08:29	06/07/25 12:15	1
d5-NEtFOSAA	85.4		25 - 135	06/06/25 08:29	06/07/25 12:15	1
13C2 4:2 FTS	100		40 - 200	06/06/25 08:29	06/07/25 12:15	1
13C2 6:2 FTS	101		40 - 200	06/06/25 08:29	06/07/25 12:15	1
13C2 8:2 FTS	86.7		40 - 300	06/06/25 08:29	06/07/25 12:15	1
13C3-HFPO-DA	90.4		40 - 130	06/06/25 08:29	06/07/25 12:15	1
D7-NMeFOSE	85.9		10 - 130	06/06/25 08:29	06/07/25 12:15	1
D9-NEtFOSE	80.4		10 - 130	06/06/25 08:29	06/07/25 12:15	1
d5-NEtPFOSA	82.0		10 - 130	06/06/25 08:29	06/07/25 12:15	1
d3-NMePFOSA	81.8		10 - 130	06/06/25 08:29	06/07/25 12:15	1
13C2 PFDoA	93.5		10 - 130	06/06/25 08:29	06/07/25 12:15	1

Lab Sample ID: LCS 410-653903/10-A

Matrix: Water

Analysis Batch: 654159

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 653903

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	80.0	69.5		ng/L		87	70 - 140
Perfluoropentanoic acid (PFPeA)	40.0	34.6		ng/L		86	65 - 135
Perfluorohexanoic acid (PFHxA)	40.0	34.4		ng/L		86	70 - 145
Perfluoroheptanoic acid (PFHpA)	40.0	35.5		ng/L		89	70 - 150
Perfluorooctanoic acid (PFOA)	40.0	32.6		ng/L		82	70 - 150
Perfluorononanoic acid (PFNA)	40.0	36.6		ng/L		91	70 - 150
Perfluorodecanoic acid (PFDA)	40.0	36.7		ng/L		92	70 - 140
Perfluoroundecanoic acid (PFUnA)	40.0	35.2		ng/L		88	70 - 145
Perfluorododecanoic acid (PFDoA)	40.0	35.0		ng/L		88	70 - 140
Perfluorotridecanoic acid (PFTriDA)	40.0	32.2		ng/L		80	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	40.0	31.2		ng/L		78	60 - 140
Perfluorobutanesulfonic acid (PFBS)	35.5	28.7		ng/L		81	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	37.6	32.7		ng/L		87	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	36.5	30.7		ng/L		84	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	38.2	33.0		ng/L		87	70 - 150
Perfluorooctanesulfonic acid (PFOS)	37.2	29.4		ng/L		79	55 - 150
Perfluorononanesulfonic acid (PFNS)	38.5	31.7		ng/L		82	65 - 145
Perfluorodecanesulfonic acid (PFDS)	38.6	30.5		ng/L		79	60 - 145

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-653903/10-A

Matrix: Water

Analysis Batch: 654159

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 653903

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorododecanesulfonic acid (PFDoS)	38.8	30.4		ng/L		78	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	75.0	75.2		ng/L		100	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	76.2	63.4		ng/L		83	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	76.8	72.4		ng/L		94	60 - 150
Perfluorooctanesulfonamide (PFOSA)	40.0	43.0		ng/L		107	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	40.0	37.4		ng/L		94	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	40.0	35.2		ng/L		88	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	34.6		ng/L		86	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	39.6		ng/L		99	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	200	194		ng/L		97	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	200	201		ng/L		100	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	30.0	24.9		ng/L		83	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	33.2		ng/L		88	65 - 145
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.0	36.9		ng/L		92	55 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA)	40.0	35.8		ng/L		89	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	40.0	35.9		ng/L		90	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	37.4	29.3		ng/L		79	70 - 155
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	37.8	26.3		ng/L		70	55 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	35.7	30.7		ng/L		86	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	80.0	69.6		ng/L		87	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	200	175		ng/L		88	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	200	162		ng/L		81	50 - 145

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4-PFBA	103		5 - 130
13C5-PFPeA	98.9		40 - 130
13C5-PFHxA	96.0		40 - 130
13C4-PFHpA	95.4		40 - 130
13C8-PFOA	90.9		40 - 130
13C9-PFNA	92.8		40 - 130

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-653903/10-A

Matrix: Water

Analysis Batch: 654159

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 653903

Isotope Dilution	LCS		Limits
	%Recovery	Qualifier	
13C6-PFDA	83.4		40 - 130
13C7-PFUnA	90.1		30 - 130
13C2-PFTeDA	97.9		10 - 130
13C3-PFBS	91.9		40 - 135
13C3-PFHxS	91.7		40 - 130
13C8-PFOS	93.7		40 - 130
13C8-PFOSA	87.8		40 - 130
d3-NMeFOSAA	81.8		40 - 170
d5-NEtFOSAA	80.6		25 - 135
13C2 4:2 FTS	103		40 - 200
13C2 6:2 FTS	102		40 - 200
13C2 8:2 FTS	91.1		40 - 300
13C3-HFPO-DA	95.4		40 - 130
D7-NMeFOSE	76.8		10 - 130
D9-NEtFOSE	70.1		10 - 130
d5-NEtPFOSA	67.1		10 - 130
d3-NMePFOSA	69.9		10 - 130
13C2 PFDoA	93.4		10 - 130

Lab Sample ID: LLCS 410-653903/11-A

Matrix: Water

Analysis Batch: 654159

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 653903

Analyte	Spike Added	LLCS		Unit	D	%Rec	%Rec	
		Result	Qualifier				Limits	
Perfluorobutanoic acid (PFBA)	8.00	7.42		ng/L		93	70 - 140	
Perfluoropentanoic acid (PFPeA)	4.00	3.53		ng/L		88	65 - 135	
Perfluorohexanoic acid (PFHxA)	4.00	3.67		ng/L		92	70 - 145	
Perfluoroheptanoic acid (PFHpA)	4.00	3.55		ng/L		89	70 - 150	
Perfluorooctanoic acid (PFOA)	4.00	3.51		ng/L		88	70 - 150	
Perfluorononanoic acid (PFNA)	4.00	3.45		ng/L		86	70 - 150	
Perfluorodecanoic acid (PFDA)	4.00	3.90		ng/L		98	70 - 140	
Perfluoroundecanoic acid (PFUnA)	4.00	3.93		ng/L		98	70 - 145	
Perfluorododecanoic acid (PFDoA)	4.00	3.79		ng/L		95	70 - 140	
Perfluorotridecanoic acid (PFTTrDA)	4.00	3.31		ng/L		83	65 - 140	
Perfluorotetradecanoic acid (PFTeDA)	4.00	2.91		ng/L		73	60 - 140	
Perfluorobutanesulfonic acid (PFBS)	3.55	2.91		ng/L		82	60 - 145	
Perfluoropentanesulfonic acid (PFPeS)	3.76	3.72		ng/L		99	65 - 140	
Perfluorohexanesulfonic acid (PFHxS)	3.65	3.97		ng/L		109	65 - 145	
Perfluoroheptanesulfonic acid (PFHpS)	3.82	3.51		ng/L		92	70 - 150	
Perfluorooctanesulfonic acid (PFOS)	3.72	3.59		ng/L		96	55 - 150	
Perfluorononanesulfonic acid (PFNS)	3.85	3.25		ng/L		84	65 - 145	

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 410-653903/11-A

Matrix: Water

Analysis Batch: 654159

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 653903

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorodecanesulfonic acid (PFDS)	3.86	3.15		ng/L		82	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	3.88	3.38		ng/L		87	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	7.50	7.24		ng/L		96	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	7.62	7.63		ng/L		100	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	7.66	6.81		ng/L		89	60 - 150
Perfluorooctanesulfonamide (PFOSA)	4.00	4.04		ng/L		101	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	4.00	4.00		ng/L		100	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	4.00	3.91		ng/L		98	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.00	3.62		ng/L		91	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.00	4.73		ng/L		118	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	20.0	19.6		ng/L		98	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	20.0	18.3		ng/L		91	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	3.00	2.85		ng/L		95	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3.78	3.41		ng/L		90	65 - 145
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.00	3.61		ng/L		90	55 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.00	3.84		ng/L		96	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.00	4.21		ng/L		105	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	3.74	3.16		ng/L		85	70 - 155
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	3.78	2.99		ng/L		79	55 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	3.57	2.99		ng/L		84	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	8.00	8.05		ng/L		101	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	20.0	17.0		ng/L		85	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	20.0	16.3		ng/L		81	50 - 145

Isotope Dilution	LLCS		Limits
	%Recovery	Qualifier	
13C4-PFBA	98.0		5 - 130
13C5-PFPeA	102		40 - 130
13C5-PFHxA	99.3		40 - 130
13C4-PFHpA	101		40 - 130
13C8-PFOA	93.6		40 - 130

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 410-653903/11-A

Matrix: Water

Analysis Batch: 654159

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 653903

Isotope Dilution	LLCS LLCS		Limits
	%Recovery	Qualifier	
13C9-PFNA	94.8		40 - 130
13C6-PFDA	87.2		40 - 130
13C7-PFUnA	86.6		30 - 130
13C2-PFTeDA	92.0		10 - 130
13C3-PFBS	98.7		40 - 135
13C3-PFHxS	86.0		40 - 130
13C8-PFOS	91.9		40 - 130
13C8-PFOSA	94.9		40 - 130
d3-NMeFOSAA	88.7		40 - 170
d5-NEtFOSAA	84.4		25 - 135
13C2 4:2 FTS	100		40 - 200
13C2 6:2 FTS	97.7		40 - 200
13C2 8:2 FTS	95.2		40 - 300
13C3-HFPO-DA	93.1		40 - 130
D7-NMeFOSE	79.2		10 - 130
D9-NEtFOSE	74.7		10 - 130
d5-NEtPFOSA	73.0		10 - 130
d3-NMePFOSA	78.0		10 - 130
13C2 PFDoA	88.2		10 - 130

Lab Sample ID: 480-229870-2 MS

Matrix: Water

Analysis Batch: 654159

Client Sample ID: RI-MW-5 MS

Prep Type: Total/NA

Prep Batch: 653903

Analyte	Sample Sample		Spike	MS MS		Unit	D	%Rec	%Rec	
	Result	Qualifier		Result	Qualifier				Limits	
Perfluorobutanoic acid (PFBA)	1.4	J	64.8	58.0		ng/L		87	70 - 140	
Perfluoropentanoic acid (PFPeA)	0.55	J	32.4	30.7		ng/L		93	65 - 135	
Perfluorohexanoic acid (PFHxA)	3.3		32.4	28.0		ng/L		76	70 - 145	
Perfluoroheptanoic acid (PFHpA)	ND		32.4	32.4		ng/L		100	70 - 150	
Perfluorooctanoic acid (PFOA)	1.3	J	32.4	28.8		ng/L		85	70 - 150	
Perfluorononanoic acid (PFNA)	ND		32.4	27.9		ng/L		86	70 - 150	
Perfluorodecanoic acid (PFDA)	ND		32.4	27.0		ng/L		83	70 - 140	
Perfluoroundecanoic acid (PFUnA)	ND		32.4	29.2		ng/L		90	70 - 145	
Perfluorododecanoic acid (PFDoA)	ND		32.4	28.8		ng/L		89	70 - 140	
Perfluorotridecanoic acid (PFTTrDA)	ND		32.4	26.9		ng/L		83	65 - 140	
Perfluorotetradecanoic acid (PFTeDA)	ND		32.4	25.6		ng/L		79	60 - 140	
Perfluorobutanesulfonic acid (PFBS)	0.46	J	28.8	24.7		ng/L		84	60 - 145	
Perfluoropentanesulfonic acid (PFPeS)	ND		30.4	25.5		ng/L		84	65 - 140	
Perfluorohexanesulfonic acid (PFHxS)	ND		29.5	23.1		ng/L		78	65 - 145	
Perfluoroheptanesulfonic acid (PFHpS)	ND		30.9	28.9		ng/L		94	70 - 150	
Perfluorooctanesulfonic acid (PFOS)	ND		30.1	25.6		ng/L		85	55 - 150	

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-229870-2 MS

Matrix: Water

Analysis Batch: 654159

Client Sample ID: RI-MW-5 MS

Prep Type: Total/NA

Prep Batch: 653903

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorononanesulfonic acid (PFNS)	ND		31.2	23.8		ng/L		76	65 - 145
Perfluorodecanesulfonic acid (PFDS)	ND		31.2	23.2		ng/L		74	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	ND		31.4	21.4		ng/L		68	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		60.8	59.5		ng/L		98	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		61.7	60.4		ng/L		98	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		62.2	54.8		ng/L		88	60 - 150
Perfluorooctanesulfonamide (PFOSA)	ND		32.4	36.2		ng/L		112	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		32.4	27.7		ng/L		85	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		32.4	29.0		ng/L		90	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		32.4	26.9		ng/L		83	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		32.4	30.2		ng/L		93	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		162	163		ng/L		101	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		162	159		ng/L		98	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		24.3	21.0		ng/L		87	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		30.6	28.1		ng/L		92	65 - 145
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		32.4	26.7		ng/L		82	55 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		32.4	29.6		ng/L		91	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		32.4	33.6		ng/L		104	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		30.2	23.9		ng/L		79	70 - 155
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		30.6	19.4		ng/L		63	55 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		28.9	21.9		ng/L		76	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		64.8	66.0		ng/L		102	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		162	141		ng/L		87	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		162	134		ng/L		83	50 - 145
		MS MS							
Isotope Dilution	%Recovery	Qualifier	Limits						
13C4-PFBA	95.7		5 - 130						
13C5-PFPeA	100		40 - 130						
13C5-PFHxA	107		40 - 130						

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-229870-2 MS

Matrix: Water

Analysis Batch: 654159

Client Sample ID: RI-MW-5 MS

Prep Type: Total/NA

Prep Batch: 653903

Isotope Dilution	MS MS		Limits
	%Recovery	Qualifier	
13C4-PFHpA	102		40 - 130
13C8-PFOA	92.7		40 - 130
13C9-PFNA	97.2		40 - 130
13C6-PFDA	88.3		40 - 130
13C7-PFUnA	88.2		30 - 130
13C2-PFTeDA	79.5		10 - 130
13C3-PFBS	108		40 - 135
13C3-PFHxS	103		40 - 130
13C8-PFOS	95.9		40 - 130
13C8-PFOSA	87.2		40 - 130
d3-NMeFOSAA	93.4		40 - 170
d5-NEtFOSAA	90.2		25 - 135
13C2 4:2 FTS	162		40 - 200
13C2 6:2 FTS	127		40 - 200
13C2 8:2 FTS	105		40 - 300
13C3-HFPO-DA	93.5		40 - 130
D7-NMeFOSE	72.2		10 - 130
D9-NEtFOSE	68.8		10 - 130
d5-NEtPFOSA	74.8		10 - 130
d3-NMePFOSA	80.3		10 - 130
13C2 PFDoA	84.0		10 - 130

Lab Sample ID: 480-229870-2 MSD

Matrix: Water

Analysis Batch: 654159

Client Sample ID: RI-MW-5 MSD

Prep Type: Total/NA

Prep Batch: 653903

Analyte	Sample	Sample	Spike	MSD MSD		Unit	D	%Rec	%Rec		RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits		RPD	Limit
Perfluorobutanoic acid (PFBA)	1.4	J	64.2	59.4		ng/L		90	70 - 140		2	30
Perfluoropentanoic acid (PFPeA)	0.55	J	32.1	26.3		ng/L		80	65 - 135		16	30
Perfluorohexanoic acid (PFHxA)	3.3		32.1	30.6		ng/L		85	70 - 145		9	30
Perfluoroheptanoic acid (PFHpA)	ND		32.1	29.6		ng/L		92	70 - 150		9	30
Perfluorooctanoic acid (PFOA)	1.3	J	32.1	28.6		ng/L		85	70 - 150		1	30
Perfluorononanoic acid (PFNA)	ND		32.1	28.3		ng/L		88	70 - 150		1	30
Perfluorodecanoic acid (PFDA)	ND		32.1	27.9		ng/L		87	70 - 140		3	30
Perfluoroundecanoic acid (PFUnA)	ND		32.1	29.4		ng/L		92	70 - 145		1	30
Perfluorododecanoic acid (PFDoA)	ND		32.1	28.9		ng/L		90	70 - 140		0	30
Perfluorotridecanoic acid (PFTTrDA)	ND		32.1	26.4		ng/L		82	65 - 140		2	30
Perfluorotetradecanoic acid (PFTeDA)	ND		32.1	29.4		ng/L		92	60 - 140		14	30
Perfluorobutanesulfonic acid (PFBS)	0.46	J	28.5	24.5		ng/L		84	60 - 145		1	30
Perfluoropentanesulfonic acid (PFPeS)	ND		30.2	24.4		ng/L		81	65 - 140		4	30
Perfluorohexanesulfonic acid (PFHxS)	ND		29.3	22.4		ng/L		77	65 - 145		3	30
Perfluoroheptanesulfonic acid (PFHpS)	ND		30.6	29.2		ng/L		95	70 - 150		1	30

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-229870-2 MSD

Matrix: Water

Analysis Batch: 654159

Client Sample ID: RI-MW-5 MSD

Prep Type: Total/NA

Prep Batch: 653903

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorooctanesulfonic acid (PFOS)	ND		29.8	27.2		ng/L		91	55 - 150	6	30
Perfluorononanesulfonic acid (PFNS)	ND		30.9	24.1		ng/L		78	65 - 145	1	30
Perfluorodecanesulfonic acid (PFDS)	ND		30.9	22.7		ng/L		73	60 - 145	2	30
Perfluorododecanesulfonic acid (PFDoS)	ND		31.1	23.2		ng/L		75	50 - 145	8	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		60.2	57.0		ng/L		95	70 - 145	4	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		61.1	54.2		ng/L		89	65 - 155	11	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		61.6	61.3		ng/L		99	60 - 150	11	30
Perfluorooctanesulfonamide (PFOSA)	ND		32.1	36.1		ng/L		112	70 - 145	0	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		32.1	30.5		ng/L		95	60 - 150	10	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		32.1	27.2		ng/L		85	65 - 145	7	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		32.1	29.5		ng/L		92	50 - 140	9	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		32.1	30.3		ng/L		94	70 - 145	0	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		160	163		ng/L		102	70 - 145	0	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		160	155		ng/L		97	70 - 135	3	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		24.1	21.6		ng/L		90	70 - 140	3	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		30.4	27.5		ng/L		91	65 - 145	2	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		32.1	24.7		ng/L		77	55 - 140	8	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		32.1	27.2		ng/L		85	60 - 150	8	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		32.1	32.7		ng/L		102	50 - 150	3	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		30.0	21.1		ng/L		70	70 - 155	13	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		30.3	18.8		ng/L		62	55 - 160	3	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		28.6	24.3		ng/L		85	70 - 140	10	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		64.2	60.7		ng/L		95	65 - 130	8	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		160	151		ng/L		94	70 - 135	7	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		160	135		ng/L		84	50 - 145	1	30

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
¹³ C4-PFBA	92.6		5 - 130

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-229870-2 MSD

Matrix: Water

Analysis Batch: 654159

Client Sample ID: RI-MW-5 MSD

Prep Type: Total/NA

Prep Batch: 653903

Isotope Dilution	MSD	MSD	Limits
	%Recovery	Qualifier	
13C5-PFPeA	102		40 - 130
13C5-PFHxA	90.9		40 - 130
13C4-PFHpA	95.2		40 - 130
13C8-PFOA	88.8		40 - 130
13C9-PFNA	96.4		40 - 130
13C6-PFDA	75.9		40 - 130
13C7-PFUnA	73.2		30 - 130
13C2-PFTeDA	66.5		10 - 130
13C3-PFBS	102		40 - 135
13C3-PFHxS	98.9		40 - 130
13C8-PFOS	84.1		40 - 130
13C8-PFOSA	79.3		40 - 130
d3-NMeFOSAA	76.4		40 - 170
d5-NEtFOSAA	71.3		25 - 135
13C2 4:2 FTS	160		40 - 200
13C2 6:2 FTS	110		40 - 200
13C2 8:2 FTS	80.5		40 - 300
13C3-HFPO-DA	85.7		40 - 130
D7-NMeFOSE	52.1		10 - 130
D9-NEtFOSE	50.7		10 - 130
d5-NEtPFOSA	66.0		10 - 130
d3-NMePFOSA	66.6		10 - 130
13C2 PFDoA	71.5		10 - 130

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 480-747802/1-A

Matrix: Water

Analysis Batch: 748075

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747802

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	ND		0.20	0.060	mg/L		06/04/25 07:53	06/05/25 20:30	1
Antimony	ND		0.020	0.0068	mg/L		06/04/25 07:53	06/05/25 20:30	1
Barium	ND		0.0020	0.00070	mg/L		06/04/25 07:53	06/05/25 20:30	1
Beryllium	ND		0.0020	0.00030	mg/L		06/04/25 07:53	06/05/25 20:30	1
Cadmium	ND		0.0020	0.00050	mg/L		06/04/25 07:53	06/05/25 20:30	1
Calcium	0.134	J	0.50	0.10	mg/L		06/04/25 07:53	06/05/25 20:30	1
Chromium	ND		0.0040	0.0010	mg/L		06/04/25 07:53	06/05/25 20:30	1
Cobalt	ND		0.0040	0.00063	mg/L		06/04/25 07:53	06/05/25 20:30	1
Copper	ND		0.010	0.0016	mg/L		06/04/25 07:53	06/05/25 20:30	1
Lead	ND		0.010	0.0030	mg/L		06/04/25 07:53	06/05/25 20:30	1
Magnesium	0.0437	J	0.20	0.043	mg/L		06/04/25 07:53	06/05/25 20:30	1
Manganese	0.000526	J	0.0030	0.00040	mg/L		06/04/25 07:53	06/05/25 20:30	1
Nickel	ND	^5-	0.010	0.0013	mg/L		06/04/25 07:53	06/05/25 20:30	1
Potassium	ND		0.50	0.10	mg/L		06/04/25 07:53	06/05/25 20:30	1
Silver	ND	^5-	0.0060	0.0017	mg/L		06/04/25 07:53	06/05/25 20:30	1
Sodium	ND		1.0	0.32	mg/L		06/04/25 07:53	06/05/25 20:30	1
Thallium	ND		0.020	0.010	mg/L		06/04/25 07:53	06/05/25 20:30	1
Vanadium	ND		0.0050	0.0015	mg/L		06/04/25 07:53	06/05/25 20:30	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 480-747802/1-A

Matrix: Water

Analysis Batch: 748075

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747802

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	0.00617	J ^5-	0.010	0.0015	mg/L		06/04/25 07:53	06/05/25 20:30	1

Lab Sample ID: LCS 480-747802/2-A

Matrix: Water

Analysis Batch: 748075

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747802

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5.10	4.95		mg/L		97	80 - 120
Antimony	0.500	0.493		mg/L		99	80 - 120
Barium	1.00	1.06		mg/L		106	80 - 120
Beryllium	0.496	0.525		mg/L		106	80 - 120
Cadmium	0.500	0.507		mg/L		101	80 - 120
Calcium	25.0	25.05		mg/L		100	80 - 120
Chromium	0.500	0.516		mg/L		103	80 - 120
Cobalt	0.500	0.479		mg/L		96	80 - 120
Copper	0.500	0.495		mg/L		99	80 - 120
Lead	0.500	0.512		mg/L		102	80 - 120
Magnesium	25.0	24.54		mg/L		98	80 - 120
Manganese	0.500	0.493		mg/L		99	80 - 120
Nickel	0.500	0.512	^5-	mg/L		102	80 - 120
Potassium	25.0	25.09		mg/L		100	80 - 120
Silver	0.0500	0.0484	^5-	mg/L		97	80 - 120
Sodium	25.0	25.28		mg/L		101	80 - 120
Thallium	1.00	1.01		mg/L		101	80 - 120
Vanadium	0.500	0.513		mg/L		103	80 - 120
Zinc	0.500	0.527	^5-	mg/L		105	80 - 120

Lab Sample ID: 480-229870-2 MS

Matrix: Water

Analysis Batch: 748075

Client Sample ID: RI-MW-5 MS

Prep Type: Total/NA

Prep Batch: 747802

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	0.068	J	5.10	5.04		mg/L		98	75 - 125
Antimony	ND		0.500	0.493		mg/L		99	75 - 125
Barium	0.15		1.00	1.19		mg/L		104	75 - 125
Beryllium	ND		0.496	0.519		mg/L		105	75 - 125
Cadmium	ND		0.500	0.513		mg/L		103	75 - 125
Calcium	178	B	25.0	201.6	4	mg/L		96	75 - 125
Chromium	ND		0.500	0.503		mg/L		101	75 - 125
Cobalt	0.0033	J	0.500	0.479		mg/L		95	75 - 125
Copper	0.0017	J	0.500	0.506		mg/L		101	75 - 125
Lead	ND		0.500	0.508		mg/L		102	75 - 125
Magnesium	43.8	B	25.0	69.79		mg/L		104	75 - 125
Manganese	2.6	B	0.500	3.52	4	mg/L		186	75 - 125
Nickel	0.0057	J ^5-	0.500	0.496	^5-	mg/L		98	75 - 125
Potassium	18.0		25.0	41.08		mg/L		92	75 - 125
Silver	ND	^5-	0.0500	0.0489	^5-	mg/L		98	75 - 125
Sodium	14.5	F1 F2	25.0	37.66		mg/L		93	75 - 125
Thallium	ND		1.00	1.01		mg/L		101	75 - 125

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 480-229870-2 MS

Matrix: Water

Analysis Batch: 748075

Client Sample ID: RI-MW-5 MS

Prep Type: Total/NA

Prep Batch: 747802

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Vanadium	ND		0.500	0.506		mg/L		101	75 - 125
Zinc	0.0033	J ^5- B	0.500	0.499	^5-	mg/L		99	75 - 125

Lab Sample ID: 480-229870-2 MSD

Matrix: Water

Analysis Batch: 748075

Client Sample ID: RI-MW-5 MSD

Prep Type: Total/NA

Prep Batch: 747802

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	0.068	J	5.10	5.01		mg/L		97	75 - 125	1	20
Antimony	ND		0.500	0.497		mg/L		99	75 - 125	1	20
Barium	0.15		1.00	1.21		mg/L		106	75 - 125	1	20
Beryllium	ND		0.496	0.523		mg/L		105	75 - 125	1	20
Cadmium	ND		0.500	0.512		mg/L		102	75 - 125	0	20
Calcium	178	B	25.0	200.3	4	mg/L		91	75 - 125	1	20
Chromium	ND		0.500	0.503		mg/L		101	75 - 125	0	20
Cobalt	0.0033	J	0.500	0.480		mg/L		95	75 - 125	0	20
Copper	0.0017	J	0.500	0.506		mg/L		101	75 - 125	0	20
Lead	ND		0.500	0.507		mg/L		101	75 - 125	0	20
Magnesium	43.8	B	25.0	69.07		mg/L		101	75 - 125	1	20
Manganese	2.6	B	0.500	3.30	4	mg/L		141	75 - 125	7	20
Nickel	0.0057	J ^5-	0.500	0.496	^5-	mg/L		98	75 - 125	0	20
Potassium	18.0		25.0	42.18		mg/L		97	75 - 125	3	20
Silver	ND	^5-	0.0500	0.0494	^5-	mg/L		99	75 - 125	1	20
Sodium	14.5	F1 F2	25.0	55.13	F1 F2	mg/L		163	75 - 125	38	20
Thallium	ND		1.00	1.01		mg/L		101	75 - 125	0	20
Vanadium	ND		0.500	0.507		mg/L		101	75 - 125	0	20
Zinc	0.0033	J ^5- B	0.500	0.497	^5-	mg/L		99	75 - 125	0	20

Lab Sample ID: MB 480-748320/1-A

Matrix: Water

Analysis Batch: 748491

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 748320

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		06/10/25 08:37	06/10/25 17:12	1

Lab Sample ID: LCS 480-748320/2-A

Matrix: Water

Analysis Batch: 748491

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 748320

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	5.10	5.60		mg/L		110	80 - 120

Lab Sample ID: 480-229870-2 MS

Matrix: Water

Analysis Batch: 748491

Client Sample ID: RI-MW-5 MS

Prep Type: Total/NA

Prep Batch: 748320

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	0.19		5.10	5.64		mg/L		107	75 - 125

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 480-229870-2 MSD

Matrix: Water

Analysis Batch: 748491

Client Sample ID: RI-MW-5 MSD

Prep Type: Total/NA

Prep Batch: 748320

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	0.19		5.10	5.67		mg/L		107	75 - 125	0	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 480-747803/1-A

Matrix: Water

Analysis Batch: 747979

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747803

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0010	0.00039	mg/L		06/04/25 07:47	06/04/25 16:40	1
Selenium	ND		0.0010	0.00044	mg/L		06/04/25 07:47	06/04/25 16:40	1

Lab Sample ID: LCS 480-747803/2-A

Matrix: Water

Analysis Batch: 747979

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747803

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.0400	0.0394		mg/L		98	80 - 120
Selenium	0.0400	0.0412		mg/L		103	80 - 120

Lab Sample ID: 480-229870-2 MS

Matrix: Water

Analysis Batch: 747979

Client Sample ID: RI-MW-5 MS

Prep Type: Total/NA

Prep Batch: 747803

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.0011		0.0400	0.0426		mg/L		104	75 - 125
Selenium	0.00056	J	0.0400	0.0409		mg/L		101	75 - 125

Lab Sample ID: 480-229870-2 MSD

Matrix: Water

Analysis Batch: 747979

Client Sample ID: RI-MW-5 MSD

Prep Type: Total/NA

Prep Batch: 747803

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.0011		0.0400	0.0418		mg/L		102	75 - 125	2	20
Selenium	0.00056	J	0.0400	0.0409		mg/L		101	75 - 125	0	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-747966/1-A

Matrix: Water

Analysis Batch: 748005

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747966

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		06/05/25 09:26	06/05/25 12:19	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 480-747966/2-A

Matrix: Water

Analysis Batch: 748005

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747966

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00669	0.00658		mg/L		98	80 - 120		

Lab Sample ID: 480-229870-2 MS

Matrix: Water

Analysis Batch: 748005

Client Sample ID: RI-MW-5 MS

Prep Type: Total/NA

Prep Batch: 747966

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	ND		0.00669	0.00644		mg/L		96	80 - 120		

Lab Sample ID: 480-229870-2 MSD

Matrix: Water

Analysis Batch: 748005

Client Sample ID: RI-MW-5 MSD

Prep Type: Total/NA

Prep Batch: 747966

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Mercury	ND		0.00669	0.00641		mg/L		96	80 - 120	0	20

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 480-748224/21

Matrix: Water

Analysis Batch: 748224

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00730	J	0.010	0.0041	mg/L			06/08/25 16:18	1

Lab Sample ID: MB 480-748224/47

Matrix: Water

Analysis Batch: 748224

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00790	J	0.010	0.0041	mg/L			06/08/25 17:46	1

Lab Sample ID: HLCS 480-748224/22

Matrix: Water

Analysis Batch: 748224

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte			Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.400	0.392		mg/L		98	90 - 110		

Lab Sample ID: LCS 480-748224/23

Matrix: Water

Analysis Batch: 748224

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.250	0.250		mg/L		100	90 - 110		

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Method: 9012B - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LCS 480-748224/48

Matrix: Water

Analysis Batch: 748224

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.242		mg/L		97	90 - 110

Lab Sample ID: 480-229870-2 MS

Matrix: Water

Analysis Batch: 748224

Client Sample ID: RI-MW-5 MS

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.0095	J B	0.100	0.106		mg/L		96	90 - 110

Lab Sample ID: 480-229870-2 MSD

Matrix: Water

Analysis Batch: 748224

Client Sample ID: RI-MW-5 MSD

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	0.0095	J B	0.100	0.112		mg/L		102	90 - 110	5	15

QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

GC/MS VOA

Analysis Batch: 747817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229870-1	RI-MW-2	Total/NA	Water	8260C	
480-229870-2	RI-MW-5	Total/NA	Water	8260C	
480-229870-3	Trip Blank	Total/NA	Water	8260C	
MB 480-747817/9	Method Blank	Total/NA	Water	8260C	
LCS 480-747817/6	Lab Control Sample	Total/NA	Water	8260C	
480-229870-2 MS	RI-MW-5 MS	Total/NA	Water	8260C	
480-229870-2 MSD	RI-MW-5 MSD	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 748017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229870-1	RI-MW-2	Total/NA	Water	3510C	
480-229870-2	RI-MW-5	Total/NA	Water	3510C	
MB 480-748017/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-748017/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-229870-2 MS	RI-MW-5 MS	Total/NA	Water	3510C	
480-229870-2 MSD	RI-MW-5 MSD	Total/NA	Water	3510C	

Analysis Batch: 748083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229870-1	RI-MW-2	Total/NA	Water	8270D SIM ID	748017
480-229870-2	RI-MW-5	Total/NA	Water	8270D SIM ID	748017
MB 480-748017/1-A	Method Blank	Total/NA	Water	8270D SIM ID	748017
LCS 480-748017/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	748017
480-229870-2 MS	RI-MW-5 MS	Total/NA	Water	8270D SIM ID	748017
480-229870-2 MSD	RI-MW-5 MSD	Total/NA	Water	8270D SIM ID	748017

Prep Batch: 748102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229870-1	RI-MW-2	Total/NA	Water	3510C	
480-229870-2	RI-MW-5	Total/NA	Water	3510C	
MB 480-748102/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-748102/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-229870-2 MS	RI-MW-5 MS	Total/NA	Water	3510C	
480-229870-2 MSD	RI-MW-5 MSD	Total/NA	Water	3510C	

Analysis Batch: 748269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229870-1	RI-MW-2	Total/NA	Water	8270D	748102
480-229870-2	RI-MW-5	Total/NA	Water	8270D	748102
MB 480-748102/1-A	Method Blank	Total/NA	Water	8270D	748102
LCS 480-748102/2-A	Lab Control Sample	Total/NA	Water	8270D	748102
480-229870-2 MS	RI-MW-5 MS	Total/NA	Water	8270D	748102
480-229870-2 MSD	RI-MW-5 MSD	Total/NA	Water	8270D	748102

GC Semi VOA

Prep Batch: 748149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229870-1	RI-MW-2	Total/NA	Water	3510C	
480-229870-2	RI-MW-5	Total/NA	Water	3510C	

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QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

GC Semi VOA (Continued)

Prep Batch: 748149 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-748149/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-748149/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-229870-2 MS	RI-MW-5 MS	Total/NA	Water	3510C	
480-229870-2 MSD	RI-MW-5 MSD	Total/NA	Water	3510C	

Prep Batch: 748243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229870-1	RI-MW-2	Total/NA	Water	3510C	
480-229870-2	RI-MW-5	Total/NA	Water	3510C	
MB 480-748243/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-748243/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-229870-2 MS	RI-MW-5 MS	Total/NA	Water	3510C	
480-229870-2 MSD	RI-MW-5 MSD	Total/NA	Water	3510C	

Analysis Batch: 748247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229870-1	RI-MW-2	Total/NA	Water	8081B	748149
480-229870-2	RI-MW-5	Total/NA	Water	8081B	748149
MB 480-748149/1-A	Method Blank	Total/NA	Water	8081B	748149
LCS 480-748149/2-A	Lab Control Sample	Total/NA	Water	8081B	748149
480-229870-2 MS	RI-MW-5 MS	Total/NA	Water	8081B	748149
480-229870-2 MSD	RI-MW-5 MSD	Total/NA	Water	8081B	748149

Analysis Batch: 748352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229870-1	RI-MW-2	Total/NA	Water	8082A	748243
480-229870-2	RI-MW-5	Total/NA	Water	8082A	748243
MB 480-748243/1-A	Method Blank	Total/NA	Water	8082A	748243
LCS 480-748243/2-A	Lab Control Sample	Total/NA	Water	8082A	748243
480-229870-2 MS	RI-MW-5 MS	Total/NA	Water	8082A	748243
480-229870-2 MSD	RI-MW-5 MSD	Total/NA	Water	8082A	748243

LCMS

Prep Batch: 653903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229870-1	RI-MW-2	Total/NA	Water	1633	
480-229870-2	RI-MW-5	Total/NA	Water	1633	
MB 410-653903/9-A	Method Blank	Total/NA	Water	1633	
LCS 410-653903/10-A	Lab Control Sample	Total/NA	Water	1633	
LLCS 410-653903/11-A	Lab Control Sample	Total/NA	Water	1633	
480-229870-2 MS	RI-MW-5 MS	Total/NA	Water	1633	
480-229870-2 MSD	RI-MW-5 MSD	Total/NA	Water	1633	

Analysis Batch: 654159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229870-1	RI-MW-2	Total/NA	Water	1633	653903
480-229870-2	RI-MW-5	Total/NA	Water	1633	653903
MB 410-653903/9-A	Method Blank	Total/NA	Water	1633	653903
LCS 410-653903/10-A	Lab Control Sample	Total/NA	Water	1633	653903
LLCS 410-653903/11-A	Lab Control Sample	Total/NA	Water	1633	653903

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QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

LCMS (Continued)

Analysis Batch: 654159 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229870-2 MS	RI-MW-5 MS	Total/NA	Water	1633	653903
480-229870-2 MSD	RI-MW-5 MSD	Total/NA	Water	1633	653903

Metals

Prep Batch: 747802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229870-1	RI-MW-2	Total/NA	Water	3005A	
480-229870-2	RI-MW-5	Total/NA	Water	3005A	
MB 480-747802/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-747802/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-229870-2 MS	RI-MW-5 MS	Total/NA	Water	3005A	
480-229870-2 MSD	RI-MW-5 MSD	Total/NA	Water	3005A	

Prep Batch: 747803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229870-1	RI-MW-2	Total/NA	Water	3020A	
480-229870-2	RI-MW-5	Total/NA	Water	3020A	
MB 480-747803/1-A	Method Blank	Total/NA	Water	3020A	
LCS 480-747803/2-A	Lab Control Sample	Total/NA	Water	3020A	
480-229870-2 MS	RI-MW-5 MS	Total/NA	Water	3020A	
480-229870-2 MSD	RI-MW-5 MSD	Total/NA	Water	3020A	

Prep Batch: 747966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229870-1	RI-MW-2	Total/NA	Water	7470A	
480-229870-2	RI-MW-5	Total/NA	Water	7470A	
MB 480-747966/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-747966/2-A	Lab Control Sample	Total/NA	Water	7470A	
480-229870-2 MS	RI-MW-5 MS	Total/NA	Water	7470A	
480-229870-2 MSD	RI-MW-5 MSD	Total/NA	Water	7470A	

Analysis Batch: 747979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229870-1	RI-MW-2	Total/NA	Water	6020B	747803
480-229870-2	RI-MW-5	Total/NA	Water	6020B	747803
MB 480-747803/1-A	Method Blank	Total/NA	Water	6020B	747803
LCS 480-747803/2-A	Lab Control Sample	Total/NA	Water	6020B	747803
480-229870-2 MS	RI-MW-5 MS	Total/NA	Water	6020B	747803
480-229870-2 MSD	RI-MW-5 MSD	Total/NA	Water	6020B	747803

Analysis Batch: 748005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229870-1	RI-MW-2	Total/NA	Water	7470A	747966
480-229870-2	RI-MW-5	Total/NA	Water	7470A	747966
MB 480-747966/1-A	Method Blank	Total/NA	Water	7470A	747966
LCS 480-747966/2-A	Lab Control Sample	Total/NA	Water	7470A	747966
480-229870-2 MS	RI-MW-5 MS	Total/NA	Water	7470A	747966
480-229870-2 MSD	RI-MW-5 MSD	Total/NA	Water	7470A	747966

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QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Metals

Analysis Batch: 748075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229870-1	RI-MW-2	Total/NA	Water	6010D	747802
480-229870-2	RI-MW-5	Total/NA	Water	6010D	747802
MB 480-747802/1-A	Method Blank	Total/NA	Water	6010D	747802
LCS 480-747802/2-A	Lab Control Sample	Total/NA	Water	6010D	747802
480-229870-2 MS	RI-MW-5 MS	Total/NA	Water	6010D	747802
480-229870-2 MSD	RI-MW-5 MSD	Total/NA	Water	6010D	747802

Prep Batch: 748320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229870-1	RI-MW-2	Total/NA	Water	3005A	
480-229870-2	RI-MW-5	Total/NA	Water	3005A	
MB 480-748320/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-748320/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-229870-2 MS	RI-MW-5 MS	Total/NA	Water	3005A	
480-229870-2 MSD	RI-MW-5 MSD	Total/NA	Water	3005A	

Analysis Batch: 748491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229870-1	RI-MW-2	Total/NA	Water	6010D	748320
480-229870-2	RI-MW-5	Total/NA	Water	6010D	748320
MB 480-748320/1-A	Method Blank	Total/NA	Water	6010D	748320
LCS 480-748320/2-A	Lab Control Sample	Total/NA	Water	6010D	748320
480-229870-2 MS	RI-MW-5 MS	Total/NA	Water	6010D	748320
480-229870-2 MSD	RI-MW-5 MSD	Total/NA	Water	6010D	748320

General Chemistry

Analysis Batch: 748224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229870-1	RI-MW-2	Total/NA	Water	9012B	
480-229870-2	RI-MW-5	Total/NA	Water	9012B	
MB 480-748224/21	Method Blank	Total/NA	Water	9012B	
MB 480-748224/47	Method Blank	Total/NA	Water	9012B	
HLCS 480-748224/22	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-748224/23	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-748224/48	Lab Control Sample	Total/NA	Water	9012B	
480-229870-2 MS	RI-MW-5 MS	Total/NA	Water	9012B	
480-229870-2 MSD	RI-MW-5 MSD	Total/NA	Water	9012B	

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Client Sample ID: RI-MW-2

Lab Sample ID: 480-229870-1

Date Collected: 06/02/25 13:00

Matrix: Water

Date Received: 06/03/25 09:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	747817	LCH	EET BUF	06/03/25 20:56
Total/NA	Prep	3510C			748102	JMP	EET BUF	06/06/25 09:15
Total/NA	Analysis	8270D		1	748269	JMM	EET BUF	06/09/25 20:21
Total/NA	Prep	3510C			748017	LSC	EET BUF	06/05/25 13:38
Total/NA	Analysis	8270D SIM ID		1	748083	JMM	EET BUF	06/06/25 12:49
Total/NA	Prep	3510C			748149	LSC	EET BUF	06/06/25 13:24
Total/NA	Analysis	8081B		1	748247	JLS	EET BUF	06/09/25 11:01
Total/NA	Prep	3510C			748243	JMP	EET BUF	06/09/25 08:25
Total/NA	Analysis	8082A		1	748352	MAN	EET BUF	06/10/25 11:19
Total/NA	Prep	1633			653903	H3KQ	ELLE	06/06/25 08:29
Total/NA	Analysis	1633		1	654159	LDU5	ELLE	06/07/25 16:34
Total/NA	Prep	3005A			747802	ESB	EET BUF	06/04/25 07:53
Total/NA	Analysis	6010D		1	748075	BMB	EET BUF	06/05/25 20:34
Total/NA	Prep	3005A			748320	EMO	EET BUF	06/10/25 08:37
Total/NA	Analysis	6010D		1	748491	BMB	EET BUF	06/10/25 17:34
Total/NA	Prep	3020A			747803	ESB	EET BUF	06/04/25 07:47
Total/NA	Analysis	6020B		1	747979	BMB	EET BUF	06/04/25 16:45
Total/NA	Prep	7470A			747966	ESB	EET BUF	06/05/25 09:26
Total/NA	Analysis	7470A		1	748005	ESB	EET BUF	06/05/25 12:21
Total/NA	Analysis	9012B		1	748224	GW	EET BUF	06/08/25 17:08

Client Sample ID: RI-MW-5

Lab Sample ID: 480-229870-2

Date Collected: 06/02/25 13:30

Matrix: Water

Date Received: 06/03/25 09:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	747817	LCH	EET BUF	06/03/25 21:19
Total/NA	Prep	3510C			748102	JMP	EET BUF	06/06/25 09:15
Total/NA	Analysis	8270D		1	748269	JMM	EET BUF	06/09/25 16:46
Total/NA	Prep	3510C			748017	LSC	EET BUF	06/05/25 13:38
Total/NA	Analysis	8270D SIM ID		1	748083	JMM	EET BUF	06/06/25 12:27
Total/NA	Prep	3510C			748149	LSC	EET BUF	06/06/25 13:24
Total/NA	Analysis	8081B		1	748247	JLS	EET BUF	06/09/25 10:41
Total/NA	Prep	3510C			748243	JMP	EET BUF	06/09/25 08:25
Total/NA	Analysis	8082A		1	748352	MAN	EET BUF	06/10/25 11:01
Total/NA	Prep	1633			653903	H3KQ	ELLE	06/06/25 08:29
Total/NA	Analysis	1633		1	654159	LDU5	ELLE	06/07/25 16:48
Total/NA	Prep	3005A			747802	ESB	EET BUF	06/04/25 07:53
Total/NA	Analysis	6010D		1	748075	BMB	EET BUF	06/05/25 20:36
Total/NA	Prep	3005A			748320	EMO	EET BUF	06/10/25 08:37
Total/NA	Analysis	6010D		1	748491	BMB	EET BUF	06/10/25 17:36
Total/NA	Prep	3020A			747803	ESB	EET BUF	06/04/25 07:47
Total/NA	Analysis	6020B		1	747979	BMB	EET BUF	06/04/25 16:48

Eurofins Buffalo

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Client Sample ID: RI-MW-5
Date Collected: 06/02/25 13:30
Date Received: 06/03/25 09:42

Lab Sample ID: 480-229870-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			747966	ESB	EET BUF	06/05/25 09:26
Total/NA	Analysis	7470A		1	748005	ESB	EET BUF	06/05/25 12:22
Total/NA	Analysis	9012B		1	748224	GW	EET BUF	06/08/25 17:00

Client Sample ID: Trip Blank
Date Collected: 06/02/25 00:00
Date Received: 06/03/25 09:42

Lab Sample ID: 480-229870-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	747817	LCH	EET BUF	06/03/25 21:41

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Laboratory: Eurofins Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-26

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
1633	1633	Water	3-Perfluoroheptylpropanoic acid (7:3 FTCA)
1633	1633	Water	3-Perfluoropentylpropanoic acid (5:3 FTCA)
1633	1633	Water	3-Perfluoropropylpropanoic acid (3:3 FTCA)
1633	1633	Water	N-ethylperfluorooctane sulfonamide (NEtFOSA)
1633	1633	Water	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)
1633	1633	Water	N-methylperfluorooctane sulfonamide (NMeFOSA)
1633	1633	Water	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)
1633	1633	Water	Perfluorodecanesulfonic acid (PFDS)
1633	1633	Water	Perfluorododecanesulfonic acid (PFDoS)
1633	1633	Water	Perfluorononanesulfonic acid (PFNS)
1633	1633	Water	Perfluorooctanesulfonamide (PFOSA)

Method Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229870-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET BUF
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	EET BUF
8081B	Organochlorine Pesticides (GC)	SW846	EET BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET BUF
1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	ELLE
6010D	Metals (ICP)	SW846	EET BUF
6020B	Metals (ICP/MS)	SW846	EET BUF
7470A	Mercury (CVAA)	SW846	EET BUF
9012B	Cyanide, Total and/or Amenable	SW846	EET BUF
1633	Solid-Phase Extraction (SPE)	EPA	ELLE
3005A	Preparation, Total Metals	SW846	EET BUF
3020A	Preparation, Total Metals	SW846	EET BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET BUF
5030C	Purge and Trap	SW846	EET BUF
7470A	Preparation, Mercury	SW846	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

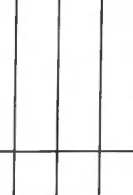
Job ID: 480-229870-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-229870-1	RI-MW-2	Water	06/02/25 13:00	06/03/25 09:42
480-229870-2	RI-MW-5	Water	06/02/25 13:30	06/03/25 09:42
480-229870-3	Trip Blank	Water	06/02/25 00:00	06/03/25 09:42

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Amherst, NY 14228-2223
phone 716.691.2600 fax 716.691.7991

Eurofins Environment Testing Ameri
COC No: 480-205003-41794

Client Contact BE3 Address 960 Busti Ave City/State/Zip Buffalo, NY, 14213 716-249-6880 (xxx) xxx-xxxx FAX Project Name: 166 E 4th Street Site: P O #		Project Manager: John Beninati Email: John.Beninati@et.eurofinsus.com Tel/Fax:		Site Contact: Date: _____ Carrier: _____		COC No.: 480-205003-41794 of _____ COCs TALS Project #: 48028798 Sampler: For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.:	
Analysis Turnaround Time ☐ CALENDAR DAYS ☒ WORKING DAYS TAT if different from Below _____ ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day				Filtered Sample (Y/N) _____ Perform MS/MSD (Y/N) _____ 9012B_NP - Cyanide, Total _____ 8082A - TCL PCBs _____ 8081B - TCL Pesticides _____ 8270D - TCL SVOCs + TICs _____ 8270D - SIM_MS_ID - 1,4 Dioxane _____ 6010D, 7470A _____ 8260C - TCL VOCs + TICs _____ 1633_Final - List of 40 _____			
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Preservation Code	Matrix	 480-229870 Chain of Custody
RI-MW-2		6/2/2025	1300	G	G	Water	
RI-MW-5		6/2/2025	1330	G	G	Water	
RI-MW-5 MS		6/2/2025	1340	G	G	Water	
RI-MW-5 MSD		6/2/2025	1350	G	G	Water	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____ Possible Hazard Identification:							
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown Special Instructions/QC Requirements & Comments:							
Custody Seals Intact: ☐ Yes ☐ No Relinquished by: <i>John Beninati</i> Relinquished by: Relinquished by:		Custody Seal No.: Company: <i>BE3</i> Company: Company:		Date/Time: <i>6/3 9:43</i> Date/Time: Date/Time:		Received by: Received by: Received in Laboratory by:	
Cooler Temp. (°C): Obs'd: _____ Therm ID No.: _____		Company: _____ Company: _____ Company: _____		Date/Time: _____ Date/Time: _____ Date/Time: _____		Received by: Received by: Received in Laboratory by:	

6/11/2025

eurolins Environment Testing America

COC No: 480-205003-41794

of _____ COCs

TALS Project #: 48028798

Sampler:

For Lab Use Only:

Walk-in Client:

Lab Sampling:

Job / SDG No.:

Sample Specific Notes:

480-229870 Chain of Custody

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-229870-1

Login Number: 229870

List Source: Eurofins Buffalo

List Number: 1

Creator: Stapleton, Kaitlyn

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.9 IR#SC ice
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	Brydges Engineering
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-229870-1

Login Number: 229870

List Number: 2

Creator: McCaskey, Jonathan

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Creation: 06/04/25 02:51 PM

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable, where thermal pres is required ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temp acceptable, where thermal pres is required ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace $> 6\text{mm}$ in diameter (none, if from WV)?	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Paul Staub
Brydges Engineering in Environment & Energy DPC
960 Busti Ave
Suite B-150
Buffalo, New York 14213

Generated 6/11/2025 3:59:23 PM

JOB DESCRIPTION

166 E 4th Street

JOB NUMBER

480-229900-1

Eurofins Buffalo

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Authorized for release by
John Beninati, Project Manager I
John.Beninati@et.eurofinsus.com
(716)504-9874

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Definitions/Glossary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

LCMS

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^5-	Linear Range Check (LRC) is outside acceptance limits, low biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present

Definitions/Glossary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Brydges Engineering in Environment & Energy DPC
Project: 166 E 4th Street

Job ID: 480-229900-1

Job ID: 480-229900-1

Eurofins Buffalo

Job Narrative 480-229900-1

Receipt

The samples were received on 6/3/2025 4:55 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 13.8° C.

Receipt Exceptions

Lab received volume for PFAS, however the COC does not request PFAS. Lab added PFAS to login.

All backup containers for water samples received for 1633 PFAS analysis were frozen after receipt.

RI-MW-3 (480-229900-1) and RI-MW-4 (480-229900-2)

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-748269 recovered outside acceptance criteria, low biased, for 3-Nitroaniline and 4-Chloroaniline. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-748269 recovered above the upper control limit for 2-Nitrophenol, Atrazine and Bis(2-chloroethyl)ether. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are:RI-MW-3 (480-229900-1) and RI-MW-4 (480-229900-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

Method 6010D: The linear range check (LRC) standard recovery associated with 480-748255 is outside the acceptance criteria for the following analytes: Silver, Barium, Beryllium, Magnesium, Manganese, Nickel, Vanadium, and Zinc. The concentration of these analyte(s) in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

LCMS

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Client Sample ID: RI-MW-3

Lab Sample ID: 480-229900-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Methylcyclohexane	0.32	J	1.0	0.16	ug/L	1			8260C	Total/NA
Perfluorobutanoic acid (PFBA)	4.7		3.2	0.87	ng/L	1			1633	Total/NA
Perfluoropentanoic acid (PFPeA)	4.8		1.6	0.48	ng/L	1			1633	Total/NA
Perfluorohexanoic acid (PFHxA)	3.9		1.6	0.40	ng/L	1			1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.83	J	1.6	0.63	ng/L	1			1633	Total/NA
Perfluorooctanoic acid (PFOA)	1.4	J	1.6	0.71	ng/L	1			1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	4.4		1.6	0.40	ng/L	1			1633	Total/NA
Aluminum	0.55		0.20	0.060	mg/L	1			6010D	Total/NA
Barium	0.062	^5-	0.0020	0.00070	mg/L	1			6010D	Total/NA
Calcium	181		0.50	0.10	mg/L	1			6010D	Total/NA
Chromium	0.0010	J	0.0040	0.0010	mg/L	1			6010D	Total/NA
Cobalt	0.00073	J	0.0040	0.00063	mg/L	1			6010D	Total/NA
Iron	1.3		0.050	0.019	mg/L	1			6010D	Total/NA
Magnesium	36.6	^5-	0.20	0.043	mg/L	1			6010D	Total/NA
Manganese	0.34	^5- B	0.0030	0.00040	mg/L	1			6010D	Total/NA
Nickel	0.0028	J ^5-	0.010	0.0013	mg/L	1			6010D	Total/NA
Potassium	10.6		0.50	0.10	mg/L	1			6010D	Total/NA
Sodium	66.2		1.0	0.32	mg/L	1			6010D	Total/NA
Arsenic	0.0015		0.0010	0.00039	mg/L	1			6020B	Total/NA
Selenium	0.0032		0.0010	0.00044	mg/L	1			6020B	Total/NA
Cyanide, Total	0.0082	J B	0.010	0.0041	mg/L	1			9012B	Total/NA

Client Sample ID: RI-MW-4

Lab Sample ID: 480-229900-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	32		10	3.0	ug/L	1			8260C	Total/NA
Methylcyclohexane	0.56	J	1.0	0.16	ug/L	1			8260C	Total/NA
Di-n-butyl phthalate	0.39	J	5.0	0.31	ug/L	1			8270D	Total/NA
Perfluorobutanoic acid (PFBA)	3.0	J	3.1	0.86	ng/L	1			1633	Total/NA
Perfluoropentanoic acid (PFPeA)	1.3	J	1.6	0.47	ng/L	1			1633	Total/NA
Perfluorohexanoic acid (PFHxA)	1.1	J	1.6	0.39	ng/L	1			1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.44	J	1.6	0.39	ng/L	1			1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.48	J	1.6	0.39	ng/L	1			1633	Total/NA
Aluminum	0.16	J	0.20	0.060	mg/L	1			6010D	Total/NA
Barium	0.095	^5-	0.0020	0.00070	mg/L	1			6010D	Total/NA
Calcium	218		0.50	0.10	mg/L	1			6010D	Total/NA
Iron	0.35		0.050	0.019	mg/L	1			6010D	Total/NA
Magnesium	47.8	^5-	0.20	0.043	mg/L	1			6010D	Total/NA
Manganese	0.47	^5- B	0.0030	0.00040	mg/L	1			6010D	Total/NA
Nickel	0.0019	J ^5-	0.010	0.0013	mg/L	1			6010D	Total/NA
Potassium	6.9		0.50	0.10	mg/L	1			6010D	Total/NA
Sodium	180		1.0	0.32	mg/L	1			6010D	Total/NA
Arsenic	0.00076	J	0.0010	0.00039	mg/L	1			6020B	Total/NA
Cyanide, Total	0.0083	J B	0.010	0.0041	mg/L	1			9012B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Client Sample ID: RI-MW-3

Lab Sample ID: 480-229900-1

Date Collected: 06/03/25 10:00

Matrix: Water

Date Received: 06/03/25 16:55

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/04/25 19:07	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/04/25 19:07	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/04/25 19:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/04/25 19:07	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/04/25 19:07	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/04/25 19:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/04/25 19:07	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/04/25 19:07	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/04/25 19:07	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/04/25 19:07	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/04/25 19:07	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/04/25 19:07	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/04/25 19:07	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/04/25 19:07	1
2-Hexanone	ND		5.0	1.2	ug/L			06/04/25 19:07	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/04/25 19:07	1
Acetone	ND		10	3.0	ug/L			06/04/25 19:07	1
Benzene	ND		1.0	0.41	ug/L			06/04/25 19:07	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/04/25 19:07	1
Bromoform	ND		1.0	0.26	ug/L			06/04/25 19:07	1
Bromomethane	ND		1.0	0.69	ug/L			06/04/25 19:07	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/04/25 19:07	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/04/25 19:07	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/04/25 19:07	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/04/25 19:07	1
Chloroethane	ND		1.0	0.32	ug/L			06/04/25 19:07	1
Chloroform	ND		1.0	0.34	ug/L			06/04/25 19:07	1
Chloromethane	ND		1.0	0.35	ug/L			06/04/25 19:07	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/04/25 19:07	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/04/25 19:07	1
Cyclohexane	ND		1.0	0.18	ug/L			06/04/25 19:07	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/04/25 19:07	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/04/25 19:07	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/04/25 19:07	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/04/25 19:07	1
Methyl acetate	ND		2.5	1.3	ug/L			06/04/25 19:07	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/04/25 19:07	1
Methylcyclohexane	0.32	J	1.0	0.16	ug/L			06/04/25 19:07	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/04/25 19:07	1
Styrene	ND		1.0	0.73	ug/L			06/04/25 19:07	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/04/25 19:07	1
Toluene	ND		1.0	0.51	ug/L			06/04/25 19:07	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/04/25 19:07	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/04/25 19:07	1
Trichloroethene	ND		1.0	0.46	ug/L			06/04/25 19:07	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/04/25 19:07	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/04/25 19:07	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/04/25 19:07	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Client Sample ID: RI-MW-3

Lab Sample ID: 480-229900-1

Date Collected: 06/03/25 10:00

Matrix: Water

Date Received: 06/03/25 16:55

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		06/04/25 19:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		80 - 120					06/04/25 19:07	1
1,2-Dichloroethane-d4 (Surr)	98		77 - 120					06/04/25 19:07	1
4-Bromofluorobenzene (Surr)	99		73 - 120					06/04/25 19:07	1
Dibromofluoromethane (Surr)	101		75 - 123					06/04/25 19:07	1

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		06/05/25 13:38	06/06/25 13:10	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	31		15 - 110				06/05/25 13:38	06/06/25 13:10	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		06/06/25 09:15	06/09/25 17:13	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		06/06/25 09:15	06/09/25 17:13	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		06/06/25 09:15	06/09/25 17:13	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		06/06/25 09:15	06/09/25 17:13	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		06/06/25 09:15	06/09/25 17:13	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		06/06/25 09:15	06/09/25 17:13	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		06/06/25 09:15	06/09/25 17:13	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		06/06/25 09:15	06/09/25 17:13	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		06/06/25 09:15	06/09/25 17:13	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		06/06/25 09:15	06/09/25 17:13	1
2-Chlorophenol	ND		5.0	0.53	ug/L		06/06/25 09:15	06/09/25 17:13	1
2-Methylphenol	ND		5.0	0.40	ug/L		06/06/25 09:15	06/09/25 17:13	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		06/06/25 09:15	06/09/25 17:13	1
2-Nitroaniline	ND		10	0.42	ug/L		06/06/25 09:15	06/09/25 17:13	1
2-Nitrophenol	ND		5.0	0.48	ug/L		06/06/25 09:15	06/09/25 17:13	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		06/06/25 09:15	06/09/25 17:13	1
3-Nitroaniline	ND		10	0.48	ug/L		06/06/25 09:15	06/09/25 17:13	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		06/06/25 09:15	06/09/25 17:13	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		06/06/25 09:15	06/09/25 17:13	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		06/06/25 09:15	06/09/25 17:13	1
4-Chloroaniline	ND		5.0	0.59	ug/L		06/06/25 09:15	06/09/25 17:13	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		06/06/25 09:15	06/09/25 17:13	1
4-Methylphenol	ND		10	0.36	ug/L		06/06/25 09:15	06/09/25 17:13	1
4-Nitroaniline	ND		10	0.25	ug/L		06/06/25 09:15	06/09/25 17:13	1
4-Nitrophenol	ND		10	1.5	ug/L		06/06/25 09:15	06/09/25 17:13	1
Acenaphthene	ND		5.0	0.41	ug/L		06/06/25 09:15	06/09/25 17:13	1
Acenaphthylene	ND		5.0	0.38	ug/L		06/06/25 09:15	06/09/25 17:13	1
Acetophenone	ND		5.0	0.54	ug/L		06/06/25 09:15	06/09/25 17:13	1
Anthracene	ND		5.0	0.28	ug/L		06/06/25 09:15	06/09/25 17:13	1
Atrazine	ND		5.0	0.46	ug/L		06/06/25 09:15	06/09/25 17:13	1
Benzaldehyde	ND		5.0	0.27	ug/L		06/06/25 09:15	06/09/25 17:13	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		06/06/25 09:15	06/09/25 17:13	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		06/06/25 09:15	06/09/25 17:13	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		06/06/25 09:15	06/09/25 17:13	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Client Sample ID: RI-MW-3

Lab Sample ID: 480-229900-1

Date Collected: 06/03/25 10:00

Matrix: Water

Date Received: 06/03/25 16:55

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		06/06/25 09:15	06/09/25 17:13	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		06/06/25 09:15	06/09/25 17:13	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		06/06/25 09:15	06/09/25 17:13	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		06/06/25 09:15	06/09/25 17:13	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		06/06/25 09:15	06/09/25 17:13	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		06/06/25 09:15	06/09/25 17:13	1
Caprolactam	ND		5.0	2.2	ug/L		06/06/25 09:15	06/09/25 17:13	1
Carbazole	ND		5.0	0.30	ug/L		06/06/25 09:15	06/09/25 17:13	1
Chrysene	ND		5.0	0.33	ug/L		06/06/25 09:15	06/09/25 17:13	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		06/06/25 09:15	06/09/25 17:13	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		06/06/25 09:15	06/09/25 17:13	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		06/06/25 09:15	06/09/25 17:13	1
Dibenzofuran	ND		10	0.51	ug/L		06/06/25 09:15	06/09/25 17:13	1
Diethyl phthalate	ND		5.0	0.22	ug/L		06/06/25 09:15	06/09/25 17:13	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		06/06/25 09:15	06/09/25 17:13	1
Fluoranthene	ND		5.0	0.40	ug/L		06/06/25 09:15	06/09/25 17:13	1
Fluorene	ND		5.0	0.36	ug/L		06/06/25 09:15	06/09/25 17:13	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		06/06/25 09:15	06/09/25 17:13	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		06/06/25 09:15	06/09/25 17:13	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		06/06/25 09:15	06/09/25 17:13	1
Hexachloroethane	ND		5.0	0.59	ug/L		06/06/25 09:15	06/09/25 17:13	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		06/06/25 09:15	06/09/25 17:13	1
Isophorone	ND		5.0	0.43	ug/L		06/06/25 09:15	06/09/25 17:13	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		06/06/25 09:15	06/09/25 17:13	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		06/06/25 09:15	06/09/25 17:13	1
Naphthalene	ND		5.0	0.76	ug/L		06/06/25 09:15	06/09/25 17:13	1
Nitrobenzene	ND		5.0	0.29	ug/L		06/06/25 09:15	06/09/25 17:13	1
Pentachlorophenol	ND		10	2.2	ug/L		06/06/25 09:15	06/09/25 17:13	1
Phenanthrene	ND		5.0	0.44	ug/L		06/06/25 09:15	06/09/25 17:13	1
Phenol	ND		5.0	0.39	ug/L		06/06/25 09:15	06/09/25 17:13	1
Pyrene	ND		5.0	0.34	ug/L		06/06/25 09:15	06/09/25 17:13	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	3.1	T J	ug/L		4.62	N/A	06/06/25 09:15	06/09/25 17:13	1
Unknown	2.1	T J	ug/L		4.73	N/A	06/06/25 09:15	06/09/25 17:13	1
Unknown	30	T J	ug/L		4.84	N/A	06/06/25 09:15	06/09/25 17:13	1
Unknown	2.3	T J	ug/L		4.89	N/A	06/06/25 09:15	06/09/25 17:13	1
Benzene, 1,3-dimethyl-	4.9	T J N	ug/L		5.17	108-38-3	06/06/25 09:15	06/09/25 17:13	1
Unknown	1.9	T J	ug/L		5.77	N/A	06/06/25 09:15	06/09/25 17:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	79		29 - 129	06/06/25 09:15	06/09/25 17:13	1
Phenol-d5 (Surr)	37		10 - 120	06/06/25 09:15	06/09/25 17:13	1
p-Terphenyl-d14 (Surr)	95		33 - 132	06/06/25 09:15	06/09/25 17:13	1
2,4,6-Tribromophenol (Surr)	94		25 - 144	06/06/25 09:15	06/09/25 17:13	1
2-Fluorobiphenyl (Surr)	87		53 - 126	06/06/25 09:15	06/09/25 17:13	1
2-Fluorophenol (Surr)	58		24 - 120	06/06/25 09:15	06/09/25 17:13	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Client Sample ID: RI-MW-3

Lab Sample ID: 480-229900-1

Date Collected: 06/03/25 10:00

Matrix: Water

Date Received: 06/03/25 16:55

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		06/06/25 13:24	06/09/25 11:20	1
4,4'-DDE	ND		0.050	0.012	ug/L		06/06/25 13:24	06/09/25 11:20	1
4,4'-DDT	ND		0.050	0.011	ug/L		06/06/25 13:24	06/09/25 11:20	1
Aldrin	ND		0.050	0.0081	ug/L		06/06/25 13:24	06/09/25 11:20	1
alpha-BHC	ND		0.050	0.0077	ug/L		06/06/25 13:24	06/09/25 11:20	1
cis-Chlordane	ND		0.050	0.015	ug/L		06/06/25 13:24	06/09/25 11:20	1
beta-BHC	ND		0.050	0.025	ug/L		06/06/25 13:24	06/09/25 11:20	1
delta-BHC	ND		0.050	0.010	ug/L		06/06/25 13:24	06/09/25 11:20	1
Dieldrin	ND		0.050	0.0098	ug/L		06/06/25 13:24	06/09/25 11:20	1
Endosulfan I	ND		0.050	0.011	ug/L		06/06/25 13:24	06/09/25 11:20	1
Endosulfan II	ND		0.050	0.012	ug/L		06/06/25 13:24	06/09/25 11:20	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		06/06/25 13:24	06/09/25 11:20	1
Endrin	ND		0.050	0.014	ug/L		06/06/25 13:24	06/09/25 11:20	1
Endrin aldehyde	ND		0.050	0.016	ug/L		06/06/25 13:24	06/09/25 11:20	1
Endrin ketone	ND		0.050	0.012	ug/L		06/06/25 13:24	06/09/25 11:20	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		06/06/25 13:24	06/09/25 11:20	1
trans-Chlordane	ND		0.050	0.011	ug/L		06/06/25 13:24	06/09/25 11:20	1
Heptachlor	ND		0.050	0.0085	ug/L		06/06/25 13:24	06/09/25 11:20	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		06/06/25 13:24	06/09/25 11:20	1
Methoxychlor	ND		0.050	0.014	ug/L		06/06/25 13:24	06/09/25 11:20	1
Toxaphene	ND		0.50	0.12	ug/L		06/06/25 13:24	06/09/25 11:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	83		10 - 120	06/06/25 13:24	06/09/25 11:20	1
DCB Decachlorobiphenyl	73		10 - 120	06/06/25 13:24	06/09/25 11:20	1
Tetrachloro-m-xylene	87		10 - 120	06/06/25 13:24	06/09/25 11:20	1
Tetrachloro-m-xylene	82		10 - 120	06/06/25 13:24	06/09/25 11:20	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		06/09/25 08:25	06/10/25 11:38	1
PCB-1221	ND		0.50	0.18	ug/L		06/09/25 08:25	06/10/25 11:38	1
PCB-1232	ND		0.50	0.18	ug/L		06/09/25 08:25	06/10/25 11:38	1
PCB-1242	ND		0.50	0.18	ug/L		06/09/25 08:25	06/10/25 11:38	1
PCB-1248	ND		0.50	0.18	ug/L		06/09/25 08:25	06/10/25 11:38	1
PCB-1254	ND		0.50	0.25	ug/L		06/09/25 08:25	06/10/25 11:38	1
PCB-1260	ND		0.50	0.25	ug/L		06/09/25 08:25	06/10/25 11:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	83		10 - 145	06/09/25 08:25	06/10/25 11:38	1
Tetrachloro-m-xylene	78		10 - 145	06/09/25 08:25	06/10/25 11:38	1
DCB Decachlorobiphenyl	78		10 - 123	06/09/25 08:25	06/10/25 11:38	1
DCB Decachlorobiphenyl	70		10 - 123	06/09/25 08:25	06/10/25 11:38	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4.7		3.2	0.87	ng/L		06/07/25 12:34	06/08/25 05:15	1
Perfluoropentanoic acid (PFPeA)	4.8		1.6	0.48	ng/L		06/07/25 12:34	06/08/25 05:15	1
Perfluorohexanoic acid (PFHxA)	3.9		1.6	0.40	ng/L		06/07/25 12:34	06/08/25 05:15	1
Perfluoroheptanoic acid (PFHpA)	0.83 J		1.6	0.63	ng/L		06/07/25 12:34	06/08/25 05:15	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Client Sample ID: RI-MW-3

Lab Sample ID: 480-229900-1

Date Collected: 06/03/25 10:00

Matrix: Water

Date Received: 06/03/25 16:55

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	1.4	J	1.6	0.71	ng/L		06/07/25 12:34	06/08/25 05:15	1
Perfluorononanoic acid (PFNA)	ND		1.6	0.40	ng/L		06/07/25 12:34	06/08/25 05:15	1
Perfluorodecanoic acid (PFDA)	ND		1.6	0.40	ng/L		06/07/25 12:34	06/08/25 05:15	1
Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.40	ng/L		06/07/25 12:34	06/08/25 05:15	1
Perfluorododecanoic acid (PFDoA)	ND		1.6	0.40	ng/L		06/07/25 12:34	06/08/25 05:15	1
Perfluorotridecanoic acid (PFTrDA)	ND		1.6	0.40	ng/L		06/07/25 12:34	06/08/25 05:15	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.6	0.40	ng/L		06/07/25 12:34	06/08/25 05:15	1
Perfluorobutanesulfonic acid (PFBS)	4.4		1.6	0.40	ng/L		06/07/25 12:34	06/08/25 05:15	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.6	0.40	ng/L		06/07/25 12:34	06/08/25 05:15	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.6	0.63	ng/L		06/07/25 12:34	06/08/25 05:15	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.6	0.40	ng/L		06/07/25 12:34	06/08/25 05:15	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.6	0.40	ng/L		06/07/25 12:34	06/08/25 05:15	1
Perfluorononanesulfonic acid (PFNS)	ND		1.6	0.40	ng/L		06/07/25 12:34	06/08/25 05:15	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.40	ng/L		06/07/25 12:34	06/08/25 05:15	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.6	0.48	ng/L		06/07/25 12:34	06/08/25 05:15	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		3.2	0.79	ng/L		06/07/25 12:34	06/08/25 05:15	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		3.2	0.79	ng/L		06/07/25 12:34	06/08/25 05:15	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		3.2	0.79	ng/L		06/07/25 12:34	06/08/25 05:15	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.6	0.40	ng/L		06/07/25 12:34	06/08/25 05:15	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.6	0.40	ng/L		06/07/25 12:34	06/08/25 05:15	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.6	0.40	ng/L		06/07/25 12:34	06/08/25 05:15	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.6	0.40	ng/L		06/07/25 12:34	06/08/25 05:15	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.6	0.40	ng/L		06/07/25 12:34	06/08/25 05:15	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		7.9	2.0	ng/L		06/07/25 12:34	06/08/25 05:15	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		7.9	2.0	ng/L		06/07/25 12:34	06/08/25 05:15	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.6	0.60	ng/L		06/07/25 12:34	06/08/25 05:15	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.6	0.40	ng/L		06/07/25 12:34	06/08/25 05:15	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.6	0.40	ng/L		06/07/25 12:34	06/08/25 05:15	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.6	0.40	ng/L		06/07/25 12:34	06/08/25 05:15	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.6	0.40	ng/L		06/07/25 12:34	06/08/25 05:15	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	ND		1.6	0.40	ng/L		06/07/25 12:34	06/08/25 05:15	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	ND		1.6	0.40	ng/L		06/07/25 12:34	06/08/25 05:15	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		3.2	0.79	ng/L		06/07/25 12:34	06/08/25 05:15	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Client Sample ID: RI-MW-3

Lab Sample ID: 480-229900-1

Date Collected: 06/03/25 10:00

Matrix: Water

Date Received: 06/03/25 16:55

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		7.9	2.0	ng/L		06/07/25 12:34	06/08/25 05:15	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4-PFBA	94.5		5 - 130				06/07/25 12:34	06/08/25 05:15	1
13C5-PFPeA	87.9		40 - 130				06/07/25 12:34	06/08/25 05:15	1
13C5-PFHxA	84.0		40 - 130				06/07/25 12:34	06/08/25 05:15	1
13C4-PFHpA	95.3		40 - 130				06/07/25 12:34	06/08/25 05:15	1
13C8-PFOA	88.5		40 - 130				06/07/25 12:34	06/08/25 05:15	1
13C9-PFNA	82.7		40 - 130				06/07/25 12:34	06/08/25 05:15	1
13C6-PFDA	77.5		40 - 130				06/07/25 12:34	06/08/25 05:15	1
13C7-PFUnA	68.8		30 - 130				06/07/25 12:34	06/08/25 05:15	1
13C2-PFTeDA	51.5		10 - 130				06/07/25 12:34	06/08/25 05:15	1
13C3-PFBS	77.4		40 - 135				06/07/25 12:34	06/08/25 05:15	1
13C3-PFHxS	73.8		40 - 130				06/07/25 12:34	06/08/25 05:15	1
13C8-PFOS	75.9		40 - 130				06/07/25 12:34	06/08/25 05:15	1
13C8-PFOSA	71.7		40 - 130				06/07/25 12:34	06/08/25 05:15	1
d3-NMeFOSAA	73.1		40 - 170				06/07/25 12:34	06/08/25 05:15	1
d5-NEtFOSAA	74.4		25 - 135				06/07/25 12:34	06/08/25 05:15	1
13C2 4:2 FTS	96.8		40 - 200				06/07/25 12:34	06/08/25 05:15	1
13C2 6:2 FTS	96.2		40 - 200				06/07/25 12:34	06/08/25 05:15	1
13C2 8:2 FTS	82.3		40 - 300				06/07/25 12:34	06/08/25 05:15	1
13C3-HFPO-DA	78.3		40 - 130				06/07/25 12:34	06/08/25 05:15	1
D7-NMeFOSE	50.7		10 - 130				06/07/25 12:34	06/08/25 05:15	1
D9-NEtFOSE	45.9		10 - 130				06/07/25 12:34	06/08/25 05:15	1
d5-NEtPFOSA	52.3		10 - 130				06/07/25 12:34	06/08/25 05:15	1
d3-NMePFOSA	52.5		10 - 130				06/07/25 12:34	06/08/25 05:15	1
13C2 PFDoA	61.5		10 - 130				06/07/25 12:34	06/08/25 05:15	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.5	0.38	ng/L		06/10/25 14:39	06/11/25 05:52	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		7.7	2.1	ng/L		06/10/25 14:39	06/11/25 05:52	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C5-PFHxA	94.2		40 - 130				06/10/25 14:39	06/11/25 05:52	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.55		0.20	0.060	mg/L		06/05/25 08:01	06/06/25 18:13	1
Antimony	ND		0.020	0.0068	mg/L		06/05/25 08:01	06/06/25 18:13	1
Barium	0.062	^5-	0.0020	0.00070	mg/L		06/05/25 08:01	06/06/25 18:13	1
Beryllium	ND	^5-	0.0020	0.00030	mg/L		06/05/25 08:01	06/06/25 18:13	1
Cadmium	ND		0.0020	0.00050	mg/L		06/05/25 08:01	06/06/25 18:13	1
Calcium	181		0.50	0.10	mg/L		06/05/25 08:01	06/06/25 18:13	1
Chromium	0.0010	J	0.0040	0.0010	mg/L		06/05/25 08:01	06/06/25 18:13	1
Cobalt	0.00073	J	0.0040	0.00063	mg/L		06/05/25 08:01	06/06/25 18:13	1
Copper	ND		0.010	0.0016	mg/L		06/05/25 08:01	06/06/25 18:13	1
Iron	1.3		0.050	0.019	mg/L		06/05/25 08:01	06/06/25 18:13	1
Lead	ND		0.010	0.0030	mg/L		06/05/25 08:01	06/06/25 18:13	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Client Sample ID: RI-MW-3

Lab Sample ID: 480-229900-1

Date Collected: 06/03/25 10:00

Matrix: Water

Date Received: 06/03/25 16:55

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	36.6	^5-	0.20	0.043	mg/L		06/05/25 08:01	06/06/25 18:13	1
Manganese	0.34	^5- B	0.0030	0.00040	mg/L		06/05/25 08:01	06/06/25 18:13	1
Nickel	0.0028	J ^5-	0.010	0.0013	mg/L		06/05/25 08:01	06/06/25 18:13	1
Potassium	10.6		0.50	0.10	mg/L		06/05/25 08:01	06/06/25 18:13	1
Silver	ND	^5-	0.0060	0.0017	mg/L		06/05/25 08:01	06/06/25 18:13	1
Sodium	66.2		1.0	0.32	mg/L		06/05/25 08:01	06/06/25 18:13	1
Thallium	ND		0.020	0.010	mg/L		06/05/25 08:01	06/06/25 18:13	1
Vanadium	ND	^5-	0.0050	0.0015	mg/L		06/05/25 08:01	06/06/25 18:13	1
Zinc	ND	^5-	0.010	0.0015	mg/L		06/05/25 08:01	06/06/25 18:13	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0015		0.0010	0.00039	mg/L		06/05/25 07:44	06/05/25 17:21	1
Selenium	0.0032		0.0010	0.00044	mg/L		06/05/25 07:44	06/05/25 17:21	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		06/05/25 09:26	06/05/25 12:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.0082	J B	0.010	0.0041	mg/L			06/08/25 17:19	1

Client Sample ID: RI-MW-4

Lab Sample ID: 480-229900-2

Date Collected: 06/03/25 08:30

Matrix: Water

Date Received: 06/03/25 16:55

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/04/25 19:29	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/04/25 19:29	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/04/25 19:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/04/25 19:29	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/04/25 19:29	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/04/25 19:29	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/04/25 19:29	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/04/25 19:29	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/04/25 19:29	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/04/25 19:29	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/04/25 19:29	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/04/25 19:29	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/04/25 19:29	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/04/25 19:29	1
2-Hexanone	ND		5.0	1.2	ug/L			06/04/25 19:29	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/04/25 19:29	1
Acetone	32		10	3.0	ug/L			06/04/25 19:29	1
Benzene	ND		1.0	0.41	ug/L			06/04/25 19:29	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/04/25 19:29	1
Bromoform	ND		1.0	0.26	ug/L			06/04/25 19:29	1
Bromomethane	ND		1.0	0.69	ug/L			06/04/25 19:29	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/04/25 19:29	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Client Sample ID: RI-MW-4

Lab Sample ID: 480-229900-2

Date Collected: 06/03/25 08:30

Matrix: Water

Date Received: 06/03/25 16:55

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/04/25 19:29	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/04/25 19:29	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/04/25 19:29	1
Chloroethane	ND		1.0	0.32	ug/L			06/04/25 19:29	1
Chloroform	ND		1.0	0.34	ug/L			06/04/25 19:29	1
Chloromethane	ND		1.0	0.35	ug/L			06/04/25 19:29	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/04/25 19:29	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/04/25 19:29	1
Cyclohexane	ND		1.0	0.18	ug/L			06/04/25 19:29	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/04/25 19:29	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/04/25 19:29	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/04/25 19:29	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/04/25 19:29	1
Methyl acetate	ND		2.5	1.3	ug/L			06/04/25 19:29	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/04/25 19:29	1
Methylcyclohexane	0.56	J	1.0	0.16	ug/L			06/04/25 19:29	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/04/25 19:29	1
Styrene	ND		1.0	0.73	ug/L			06/04/25 19:29	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/04/25 19:29	1
Toluene	ND		1.0	0.51	ug/L			06/04/25 19:29	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/04/25 19:29	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/04/25 19:29	1
Trichloroethene	ND		1.0	0.46	ug/L			06/04/25 19:29	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/04/25 19:29	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/04/25 19:29	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/04/25 19:29	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		06/04/25 19:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120		06/04/25 19:29	1
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		06/04/25 19:29	1
4-Bromofluorobenzene (Surr)	98		73 - 120		06/04/25 19:29	1
Dibromofluoromethane (Surr)	104		75 - 123		06/04/25 19:29	1

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		06/05/25 13:38	06/06/25 13:31	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	33		15 - 110				06/05/25 13:38	06/06/25 13:31	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		06/06/25 09:15	06/09/25 17:40	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		06/06/25 09:15	06/09/25 17:40	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		06/06/25 09:15	06/09/25 17:40	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		06/06/25 09:15	06/09/25 17:40	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		06/06/25 09:15	06/09/25 17:40	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		06/06/25 09:15	06/09/25 17:40	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Client Sample ID: RI-MW-4

Lab Sample ID: 480-229900-2

Date Collected: 06/03/25 08:30

Matrix: Water

Date Received: 06/03/25 16:55

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	ND		10	2.2	ug/L		06/06/25 09:15	06/09/25 17:40	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		06/06/25 09:15	06/09/25 17:40	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		06/06/25 09:15	06/09/25 17:40	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		06/06/25 09:15	06/09/25 17:40	1
2-Chlorophenol	ND		5.0	0.53	ug/L		06/06/25 09:15	06/09/25 17:40	1
2-Methylphenol	ND		5.0	0.40	ug/L		06/06/25 09:15	06/09/25 17:40	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		06/06/25 09:15	06/09/25 17:40	1
2-Nitroaniline	ND		10	0.42	ug/L		06/06/25 09:15	06/09/25 17:40	1
2-Nitrophenol	ND		5.0	0.48	ug/L		06/06/25 09:15	06/09/25 17:40	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		06/06/25 09:15	06/09/25 17:40	1
3-Nitroaniline	ND		10	0.48	ug/L		06/06/25 09:15	06/09/25 17:40	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		06/06/25 09:15	06/09/25 17:40	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		06/06/25 09:15	06/09/25 17:40	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		06/06/25 09:15	06/09/25 17:40	1
4-Chloroaniline	ND		5.0	0.59	ug/L		06/06/25 09:15	06/09/25 17:40	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		06/06/25 09:15	06/09/25 17:40	1
4-Methylphenol	ND		10	0.36	ug/L		06/06/25 09:15	06/09/25 17:40	1
4-Nitroaniline	ND		10	0.25	ug/L		06/06/25 09:15	06/09/25 17:40	1
4-Nitrophenol	ND		10	1.5	ug/L		06/06/25 09:15	06/09/25 17:40	1
Acenaphthene	ND		5.0	0.41	ug/L		06/06/25 09:15	06/09/25 17:40	1
Acenaphthylene	ND		5.0	0.38	ug/L		06/06/25 09:15	06/09/25 17:40	1
Acetophenone	ND		5.0	0.54	ug/L		06/06/25 09:15	06/09/25 17:40	1
Anthracene	ND		5.0	0.28	ug/L		06/06/25 09:15	06/09/25 17:40	1
Atrazine	ND		5.0	0.46	ug/L		06/06/25 09:15	06/09/25 17:40	1
Benzaldehyde	ND		5.0	0.27	ug/L		06/06/25 09:15	06/09/25 17:40	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		06/06/25 09:15	06/09/25 17:40	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		06/06/25 09:15	06/09/25 17:40	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		06/06/25 09:15	06/09/25 17:40	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		06/06/25 09:15	06/09/25 17:40	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		06/06/25 09:15	06/09/25 17:40	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		06/06/25 09:15	06/09/25 17:40	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		06/06/25 09:15	06/09/25 17:40	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		06/06/25 09:15	06/09/25 17:40	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		06/06/25 09:15	06/09/25 17:40	1
Caprolactam	ND		5.0	2.2	ug/L		06/06/25 09:15	06/09/25 17:40	1
Carbazole	ND		5.0	0.30	ug/L		06/06/25 09:15	06/09/25 17:40	1
Chrysene	ND		5.0	0.33	ug/L		06/06/25 09:15	06/09/25 17:40	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		06/06/25 09:15	06/09/25 17:40	1
Di-n-butyl phthalate	0.39	J	5.0	0.31	ug/L		06/06/25 09:15	06/09/25 17:40	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		06/06/25 09:15	06/09/25 17:40	1
Dibenzofuran	ND		10	0.51	ug/L		06/06/25 09:15	06/09/25 17:40	1
Diethyl phthalate	ND		5.0	0.22	ug/L		06/06/25 09:15	06/09/25 17:40	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		06/06/25 09:15	06/09/25 17:40	1
Fluoranthene	ND		5.0	0.40	ug/L		06/06/25 09:15	06/09/25 17:40	1
Fluorene	ND		5.0	0.36	ug/L		06/06/25 09:15	06/09/25 17:40	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		06/06/25 09:15	06/09/25 17:40	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		06/06/25 09:15	06/09/25 17:40	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		06/06/25 09:15	06/09/25 17:40	1
Hexachloroethane	ND		5.0	0.59	ug/L		06/06/25 09:15	06/09/25 17:40	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Client Sample ID: RI-MW-4

Lab Sample ID: 480-229900-2

Date Collected: 06/03/25 08:30

Matrix: Water

Date Received: 06/03/25 16:55

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		06/06/25 09:15	06/09/25 17:40	1
Isophorone	ND		5.0	0.43	ug/L		06/06/25 09:15	06/09/25 17:40	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		06/06/25 09:15	06/09/25 17:40	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		06/06/25 09:15	06/09/25 17:40	1
Naphthalene	ND		5.0	0.76	ug/L		06/06/25 09:15	06/09/25 17:40	1
Nitrobenzene	ND		5.0	0.29	ug/L		06/06/25 09:15	06/09/25 17:40	1
Pentachlorophenol	ND		10	2.2	ug/L		06/06/25 09:15	06/09/25 17:40	1
Phenanthrene	ND		5.0	0.44	ug/L		06/06/25 09:15	06/09/25 17:40	1
Phenol	ND		5.0	0.39	ug/L		06/06/25 09:15	06/09/25 17:40	1
Pyrene	ND		5.0	0.34	ug/L		06/06/25 09:15	06/09/25 17:40	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	2.2	T J	ug/L		4.62	N/A	06/06/25 09:15	06/09/25 17:40	1
2-Hexene, 3,5,5-trimethyl-	1.7	T J N	ug/L		4.73	26456-76-8	06/06/25 09:15	06/09/25 17:40	1
Unknown	33	T J	ug/L		4.84	N/A	06/06/25 09:15	06/09/25 17:40	1
Unknown	2.3	T J	ug/L		4.89	N/A	06/06/25 09:15	06/09/25 17:40	1
p-Xylene	2.5	T J N	ug/L		5.17	106-42-3	06/06/25 09:15	06/09/25 17:40	1
Unknown	1.7	T J	ug/L		5.77	N/A	06/06/25 09:15	06/09/25 17:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	72		29 - 129	06/06/25 09:15	06/09/25 17:40	1
Phenol-d5 (Surr)	35		10 - 120	06/06/25 09:15	06/09/25 17:40	1
p-Terphenyl-d14 (Surr)	84		33 - 132	06/06/25 09:15	06/09/25 17:40	1
2,4,6-Tribromophenol (Surr)	92		25 - 144	06/06/25 09:15	06/09/25 17:40	1
2-Fluorobiphenyl (Surr)	82		53 - 126	06/06/25 09:15	06/09/25 17:40	1
2-Fluorophenol (Surr)	53		24 - 120	06/06/25 09:15	06/09/25 17:40	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		06/06/25 13:24	06/09/25 11:40	1
4,4'-DDE	ND		0.050	0.012	ug/L		06/06/25 13:24	06/09/25 11:40	1
4,4'-DDT	ND		0.050	0.011	ug/L		06/06/25 13:24	06/09/25 11:40	1
Aldrin	ND		0.050	0.0081	ug/L		06/06/25 13:24	06/09/25 11:40	1
alpha-BHC	ND		0.050	0.0077	ug/L		06/06/25 13:24	06/09/25 11:40	1
cis-Chlordane	ND		0.050	0.015	ug/L		06/06/25 13:24	06/09/25 11:40	1
beta-BHC	ND		0.050	0.025	ug/L		06/06/25 13:24	06/09/25 11:40	1
delta-BHC	ND		0.050	0.010	ug/L		06/06/25 13:24	06/09/25 11:40	1
Dieldrin	ND		0.050	0.0098	ug/L		06/06/25 13:24	06/09/25 11:40	1
Endosulfan I	ND		0.050	0.011	ug/L		06/06/25 13:24	06/09/25 11:40	1
Endosulfan II	ND		0.050	0.012	ug/L		06/06/25 13:24	06/09/25 11:40	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		06/06/25 13:24	06/09/25 11:40	1
Endrin	ND		0.050	0.014	ug/L		06/06/25 13:24	06/09/25 11:40	1
Endrin aldehyde	ND		0.050	0.016	ug/L		06/06/25 13:24	06/09/25 11:40	1
Endrin ketone	ND		0.050	0.012	ug/L		06/06/25 13:24	06/09/25 11:40	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		06/06/25 13:24	06/09/25 11:40	1
trans-Chlordane	ND		0.050	0.011	ug/L		06/06/25 13:24	06/09/25 11:40	1
Heptachlor	ND		0.050	0.0085	ug/L		06/06/25 13:24	06/09/25 11:40	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		06/06/25 13:24	06/09/25 11:40	1
Methoxychlor	ND		0.050	0.014	ug/L		06/06/25 13:24	06/09/25 11:40	1
Toxaphene	ND		0.50	0.12	ug/L		06/06/25 13:24	06/09/25 11:40	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Client Sample ID: RI-MW-4

Lab Sample ID: 480-229900-2

Date Collected: 06/03/25 08:30

Matrix: Water

Date Received: 06/03/25 16:55

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	116		10 - 120	06/06/25 13:24	06/09/25 11:40	1
DCB Decachlorobiphenyl	86		10 - 120	06/06/25 13:24	06/09/25 11:40	1
Tetrachloro-m-xylene	94		10 - 120	06/06/25 13:24	06/09/25 11:40	1
Tetrachloro-m-xylene	88		10 - 120	06/06/25 13:24	06/09/25 11:40	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.52	0.18	ug/L		06/09/25 08:25	06/10/25 11:56	1
PCB-1221	ND		0.52	0.18	ug/L		06/09/25 08:25	06/10/25 11:56	1
PCB-1232	ND		0.52	0.18	ug/L		06/09/25 08:25	06/10/25 11:56	1
PCB-1242	ND		0.52	0.18	ug/L		06/09/25 08:25	06/10/25 11:56	1
PCB-1248	ND		0.52	0.18	ug/L		06/09/25 08:25	06/10/25 11:56	1
PCB-1254	ND		0.52	0.26	ug/L		06/09/25 08:25	06/10/25 11:56	1
PCB-1260	ND		0.52	0.26	ug/L		06/09/25 08:25	06/10/25 11:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	83		10 - 145	06/09/25 08:25	06/10/25 11:56	1
Tetrachloro-m-xylene	77		10 - 145	06/09/25 08:25	06/10/25 11:56	1
DCB Decachlorobiphenyl	89		10 - 123	06/09/25 08:25	06/10/25 11:56	1
DCB Decachlorobiphenyl	80		10 - 123	06/09/25 08:25	06/10/25 11:56	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	3.0	J	3.1	0.86	ng/L		06/07/25 12:34	06/08/25 05:29	1
Perfluoropentanoic acid (PFPeA)	1.3	J	1.6	0.47	ng/L		06/07/25 12:34	06/08/25 05:29	1
Perfluorohexanoic acid (PFHxA)	1.1	J	1.6	0.39	ng/L		06/07/25 12:34	06/08/25 05:29	1
Perfluoroheptanoic acid (PFHpA)	ND		1.6	0.63	ng/L		06/07/25 12:34	06/08/25 05:29	1
Perfluorooctanoic acid (PFOA)	ND		1.6	0.71	ng/L		06/07/25 12:34	06/08/25 05:29	1
Perfluorononanoic acid (PFNA)	ND		1.6	0.39	ng/L		06/07/25 12:34	06/08/25 05:29	1
Perfluorodecanoic acid (PFDA)	ND		1.6	0.39	ng/L		06/07/25 12:34	06/08/25 05:29	1
Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.39	ng/L		06/07/25 12:34	06/08/25 05:29	1
Perfluorododecanoic acid (PFDoA)	ND		1.6	0.39	ng/L		06/07/25 12:34	06/08/25 05:29	1
Perfluorotridecanoic acid (PFTTrDA)	ND		1.6	0.39	ng/L		06/07/25 12:34	06/08/25 05:29	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.6	0.39	ng/L		06/07/25 12:34	06/08/25 05:29	1
Perfluorobutanesulfonic acid (PFBS)	0.44	J	1.6	0.39	ng/L		06/07/25 12:34	06/08/25 05:29	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.6	0.39	ng/L		06/07/25 12:34	06/08/25 05:29	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.6	0.63	ng/L		06/07/25 12:34	06/08/25 05:29	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.6	0.39	ng/L		06/07/25 12:34	06/08/25 05:29	1
Perfluorooctanesulfonic acid (PFOS)	0.48	J	1.6	0.39	ng/L		06/07/25 12:34	06/08/25 05:29	1
Perfluorononanesulfonic acid (PFNS)	ND		1.6	0.39	ng/L		06/07/25 12:34	06/08/25 05:29	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.39	ng/L		06/07/25 12:34	06/08/25 05:29	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.6	0.47	ng/L		06/07/25 12:34	06/08/25 05:29	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		3.1	0.78	ng/L		06/07/25 12:34	06/08/25 05:29	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		3.1	0.78	ng/L		06/07/25 12:34	06/08/25 05:29	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		3.1	0.78	ng/L		06/07/25 12:34	06/08/25 05:29	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Client Sample ID: RI-MW-4

Lab Sample ID: 480-229900-2

Date Collected: 06/03/25 08:30

Matrix: Water

Date Received: 06/03/25 16:55

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonamide (PFOSA)	ND		1.6	0.39	ng/L		06/07/25 12:34	06/08/25 05:29	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.6	0.39	ng/L		06/07/25 12:34	06/08/25 05:29	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.6	0.39	ng/L		06/07/25 12:34	06/08/25 05:29	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.6	0.39	ng/L		06/07/25 12:34	06/08/25 05:29	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.6	0.39	ng/L		06/07/25 12:34	06/08/25 05:29	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		7.8	2.0	ng/L		06/07/25 12:34	06/08/25 05:29	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		7.8	2.0	ng/L		06/07/25 12:34	06/08/25 05:29	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.6	0.59	ng/L		06/07/25 12:34	06/08/25 05:29	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.6	0.39	ng/L		06/07/25 12:34	06/08/25 05:29	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.6	0.39	ng/L		06/07/25 12:34	06/08/25 05:29	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.6	0.39	ng/L		06/07/25 12:34	06/08/25 05:29	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.6	0.39	ng/L		06/07/25 12:34	06/08/25 05:29	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		1.6	0.39	ng/L		06/07/25 12:34	06/08/25 05:29	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		1.6	0.39	ng/L		06/07/25 12:34	06/08/25 05:29	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		3.1	0.78	ng/L		06/07/25 12:34	06/08/25 05:29	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		7.8	2.0	ng/L		06/07/25 12:34	06/08/25 05:29	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	90.2		5 - 130	06/07/25 12:34	06/08/25 05:29	1
13C5-PFPeA	90.6		40 - 130	06/07/25 12:34	06/08/25 05:29	1
13C5-PFHxA	80.7		40 - 130	06/07/25 12:34	06/08/25 05:29	1
13C4-PFHpA	82.2		40 - 130	06/07/25 12:34	06/08/25 05:29	1
13C8-PFOA	88.8		40 - 130	06/07/25 12:34	06/08/25 05:29	1
13C9-PFNA	85.5		40 - 130	06/07/25 12:34	06/08/25 05:29	1
13C6-PFDA	80.6		40 - 130	06/07/25 12:34	06/08/25 05:29	1
13C7-PFUnA	71.2		30 - 130	06/07/25 12:34	06/08/25 05:29	1
13C2-PFTeDA	59.4		10 - 130	06/07/25 12:34	06/08/25 05:29	1
13C3-PFBS	85.9		40 - 135	06/07/25 12:34	06/08/25 05:29	1
13C3-PFHxS	83.4		40 - 130	06/07/25 12:34	06/08/25 05:29	1
13C8-PFOS	76.9		40 - 130	06/07/25 12:34	06/08/25 05:29	1
13C8-PFOSA	70.7		40 - 130	06/07/25 12:34	06/08/25 05:29	1
d3-NMeFOSAA	77.8		40 - 170	06/07/25 12:34	06/08/25 05:29	1
d5-NEtFOSAA	82.7		25 - 135	06/07/25 12:34	06/08/25 05:29	1
13C2 4:2 FTS	107		40 - 200	06/07/25 12:34	06/08/25 05:29	1
13C2 6:2 FTS	97.8		40 - 200	06/07/25 12:34	06/08/25 05:29	1
13C2 8:2 FTS	89.9		40 - 300	06/07/25 12:34	06/08/25 05:29	1
13C3-HFPO-DA	76.9		40 - 130	06/07/25 12:34	06/08/25 05:29	1
D7-NMeFOSE	56.9		10 - 130	06/07/25 12:34	06/08/25 05:29	1
D9-NEtFOSE	52.6		10 - 130	06/07/25 12:34	06/08/25 05:29	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Client Sample ID: RI-MW-4

Lab Sample ID: 480-229900-2

Date Collected: 06/03/25 08:30

Matrix: Water

Date Received: 06/03/25 16:55

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtPFOSA	52.2		10 - 130	06/07/25 12:34	06/08/25 05:29	1
d3-NMePFOSA	51.8		10 - 130	06/07/25 12:34	06/08/25 05:29	1
13C2 PFDoA	66.6		10 - 130	06/07/25 12:34	06/08/25 05:29	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.6	0.40	ng/L		06/10/25 14:39	06/11/25 06:06	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		8.0	2.2	ng/L		06/10/25 14:39	06/11/25 06:06	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C5-PFHxA	87.8		40 - 130				06/10/25 14:39	06/11/25 06:06	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.16	J	0.20	0.060	mg/L		06/05/25 08:01	06/06/25 18:21	1
Antimony	ND		0.020	0.0068	mg/L		06/05/25 08:01	06/06/25 18:21	1
Barium	0.095	^5-	0.0020	0.00070	mg/L		06/05/25 08:01	06/06/25 18:21	1
Beryllium	ND	^5-	0.0020	0.00030	mg/L		06/05/25 08:01	06/06/25 18:21	1
Cadmium	ND		0.0020	0.00050	mg/L		06/05/25 08:01	06/06/25 18:21	1
Calcium	218		0.50	0.10	mg/L		06/05/25 08:01	06/06/25 18:21	1
Chromium	ND		0.0040	0.0010	mg/L		06/05/25 08:01	06/06/25 18:21	1
Cobalt	ND		0.0040	0.00063	mg/L		06/05/25 08:01	06/06/25 18:21	1
Copper	ND		0.010	0.0016	mg/L		06/05/25 08:01	06/06/25 18:21	1
Iron	0.35		0.050	0.019	mg/L		06/05/25 08:01	06/06/25 18:21	1
Lead	ND		0.010	0.0030	mg/L		06/05/25 08:01	06/06/25 18:21	1
Magnesium	47.8	^5-	0.20	0.043	mg/L		06/05/25 08:01	06/06/25 18:21	1
Manganese	0.47	^5- B	0.0030	0.00040	mg/L		06/05/25 08:01	06/06/25 18:21	1
Nickel	0.0019	J ^5-	0.010	0.0013	mg/L		06/05/25 08:01	06/06/25 18:21	1
Potassium	6.9		0.50	0.10	mg/L		06/05/25 08:01	06/06/25 18:21	1
Silver	ND	^5-	0.0060	0.0017	mg/L		06/05/25 08:01	06/06/25 18:21	1
Sodium	180		1.0	0.32	mg/L		06/05/25 08:01	06/06/25 18:21	1
Thallium	ND		0.020	0.010	mg/L		06/05/25 08:01	06/06/25 18:21	1
Vanadium	ND	^5-	0.0050	0.0015	mg/L		06/05/25 08:01	06/06/25 18:21	1
Zinc	ND	^5-	0.010	0.0015	mg/L		06/05/25 08:01	06/06/25 18:21	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00076	J	0.0010	0.00039	mg/L		06/05/25 07:44	06/05/25 17:35	1
Selenium	ND		0.0010	0.00044	mg/L		06/05/25 07:44	06/05/25 17:35	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		06/05/25 09:26	06/05/25 12:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.0083	J B	0.010	0.0041	mg/L			06/08/25 17:22	1

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Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (80-120)	DCA (77-120)	BFB (73-120)	DBFM (75-123)
480-229900-1	RI-MW-3	97	98	99	101
480-229900-2	RI-MW-4	99	102	98	104
LCS 480-747932/6	Lab Control Sample	97	97	102	100
MB 480-747932/8	Method Blank	97	99	100	102

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		NBZ (29-129)	PHL (10-120)	TPHd14 (33-132)	TBP (25-144)	FBP (53-126)	2FP (24-120)
480-229900-1	RI-MW-3	79	37	95	94	87	58
480-229900-2	RI-MW-4	72	35	84	92	82	53
LCS 480-748102/2-A	Lab Control Sample	98	53	99	111	103	71
MB 480-748102/1-A	Method Blank	88	43	107	98	99	66

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1 (10-120)	DCBP2 (10-120)	TCX1 (10-120)	TCX2 (10-120)
480-229900-1	RI-MW-3	83	73	87	82
480-229900-2	RI-MW-4	116	86	94	88
LCS 480-748149/2-A	Lab Control Sample	108	88	94	87
MB 480-748149/1-A	Method Blank	100	94	92	83

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TCX1 (10-145)	TCX2 (10-145)	DCBP1 (10-123)	DCBP2 (10-123)
480-229900-1	RI-MW-3	83	78	78	70

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Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TCX1 (10-145)	TCX2 (10-145)	DCBP1 (10-123)	DCBP2 (10-123)
480-229900-2	RI-MW-4	83	77	89	80
LCS 480-748243/2-A	Lab Control Sample	88	80	101	81
MB 480-748243/1-A	Method Blank	78	75	115	102

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Isotope Dilution Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	DXE (15-110)							
480-229900-1	RI-MW-3	31							
480-229900-2	RI-MW-4	33							
LCS 480-748017/2-A	Lab Control Sample	31							
MB 480-748017/1-A	Method Blank	30							
Surrogate Legend									
DXE = 1,4-Dioxane-d8									

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (5-130)	PFPeA (40-130)	13C5PHA (40-130)	C4PFHA (40-130)	C8PFOA (40-130)	C9PFNA (40-130)	C6PFDA (40-130)	13C7PUA (30-130)
480-229900-1	RI-MW-3	94.5	87.9	84.0	95.3	88.5	82.7	77.5	68.8
480-229900-1 - RE	RI-MW-3			94.2					
480-229900-2	RI-MW-4	90.2	90.6	80.7	82.2	88.8	85.5	80.6	71.2
480-229900-2 - RE	RI-MW-4			87.8					
LCS 410-654431/2-A	Lab Control Sample	80.5	76.4	80.3	77.2	75.2	74.9	71.4	76.7
LCS 410-655611/8-A	Lab Control Sample	104	83.0	79.4	77.4	94.5	87.5	89.5	92.6
LCSD 410-654431/3-A	Lab Control Sample Dup	85.1	80.3	81.4	83.9	84.3	79.7	84.1	84.7
LLCS 410-654431/4-A	Lab Control Sample	91.7	90.9	87.2	87.6	92.9	86.8	88.3	87.7
LLCS 410-655611/9-A	Lab Control Sample	106	88.7	90.4	89.6	94.8	84.1	88.6	83.1
MB 410-654431/1-A	Method Blank	81.2	81.8	79.6	74.1	75.3	75.0	74.2	74.9
MB 410-655611/7-A	Method Blank	105	88.7	88.7	82.4	88.8	77.8	79.6	77.3
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFTDA (10-130)	C3PFBS (40-135)	C3PFHS (40-130)	C8PFOS (40-130)	PFOSA (40-130)	d3NMFOS (40-170)	d5NEFOS (25-135)	M242FTS (40-200)
480-229900-1	RI-MW-3	51.5	77.4	73.8	75.9	71.7	73.1	74.4	96.8
480-229900-1 - RE	RI-MW-3								
480-229900-2	RI-MW-4	59.4	85.9	83.4	76.9	70.7	77.8	82.7	107
480-229900-2 - RE	RI-MW-4								
LCS 410-654431/2-A	Lab Control Sample	70.1	80.9	76.1	73.5	67.6	88.8	87.6	84.9
LCS 410-655611/8-A	Lab Control Sample	66.1	79.4	85.6	79.3	61.5	68.5	68.2	89.6
LCSD 410-654431/3-A	Lab Control Sample Dup	72.9	79.4	82.0	85.0	73.3	92.4	94.3	86.5
LLCS 410-654431/4-A	Lab Control Sample	73.8	92.6	88.5	86.1	72.1	86.7	88.2	99.3
LLCS 410-655611/9-A	Lab Control Sample	74.1	88.6	90.4	81.7	72.9	89.0	78.1	96.3
MB 410-654431/1-A	Method Blank	70.9	72.7	76.7	81.4	69.4	85.8	93.7	78.0
MB 410-655611/7-A	Method Blank	61.5	79.4	78.8	75.2	67.2	73.3	66.3	85.4
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M262FTS (40-200)	M282FTS (40-300)	HFPODA (40-130)	NMFM (10-130)	NEFM (10-130)	d5NPFSA (10-130)	d3NMFSA (10-130)	PFDaA (10-130)
480-229900-1	RI-MW-3	96.2	82.3	78.3	50.7	45.9	52.3	52.5	61.5
480-229900-1 - RE	RI-MW-3								
480-229900-2	RI-MW-4	97.8	89.9	76.9	56.9	52.6	52.2	51.8	66.6
480-229900-2 - RE	RI-MW-4								
LCS 410-654431/2-A	Lab Control Sample	85.7	92.9	75.0	62.1	54.6	56.8	54.3	76.6
LCS 410-655611/8-A	Lab Control Sample	84.1	86.6	73.6	51.5	45.9	46.3	44.8	85.8
LCSD 410-654431/3-A	Lab Control Sample Dup	91.0	92.7	74.2	69.9	62.6	63.1	60.0	87.4
LLCS 410-654431/4-A	Lab Control Sample	108	104	87.2	72.8	65.0	55.0	54.8	83.8

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Isotope Dilution Summary

Client: Brydges Engineering in Environment & Energy DPC

Job ID: 480-229900-1

Project/Site: 166 E 4th Street

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		M262FTS (40-200)	M282FTS (40-300)	HFPODA (40-130)	NMFM (10-130)	NEFM (10-130)	d5NPFSA (10-130)	d3NMFSA (10-130)	PFDaA (10-130)
LLCS 410-655611/9-A	Lab Control Sample	102	97.8	83.9	64.6	58.5	52.7	51.8	89.4
MB 410-654431/1-A	Method Blank	86.7	85.1	72.1	68.3	62.7	57.1	51.7	77.2
MB 410-655611/7-A	Method Blank	91.8	77.1	75.7	59.4	51.4	43.5	45.2	72.1

Surrogate Legend

PFBA = 13C4-PFBA
 PFPeA = 13C5-PFPeA
 13C5PHA = 13C5-PFHxA
 C4PFHA = 13C4-PFHpA
 C8PFOA = 13C8-PFOA
 C9PFNA = 13C9-PFNA
 C6PFDA = 13C6-PFDA
 13C7PUA = 13C7-PFUnA
 PFTDA = 13C2-PFTeDA
 C3PFBS = 13C3-PFBS
 C3PFHS = 13C3-PFHxS
 C8PFOS = 13C8-PFOS
 PFOSA = 13C8-PFOSA
 d3NMFOS = d3-NMeFOSAA
 d5NEFOS = d5-NEtFOSAA
 M242FTS = 13C2 4:2 FTS
 M262FTS = 13C2 6:2 FTS
 M282FTS = 13C2 8:2 FTS
 HFPODA = 13C3-HFPO-DA
 NMFM = D7-NMeFOSE
 NEFM = D9-NEtFOSE
 d5NPFSA = d5-NEtPFOSA
 d3NMFSA = d3-NMePFOSA
 PFDaA = 13C2 PFDaA

QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-747932/8

Matrix: Water

Analysis Batch: 747932

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/04/25 18:40	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/04/25 18:40	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/04/25 18:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/04/25 18:40	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/04/25 18:40	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/04/25 18:40	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/04/25 18:40	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/04/25 18:40	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/04/25 18:40	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/04/25 18:40	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/04/25 18:40	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/04/25 18:40	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/04/25 18:40	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/04/25 18:40	1
2-Hexanone	ND		5.0	1.2	ug/L			06/04/25 18:40	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/04/25 18:40	1
Acetone	ND		10	3.0	ug/L			06/04/25 18:40	1
Benzene	ND		1.0	0.41	ug/L			06/04/25 18:40	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/04/25 18:40	1
Bromoform	ND		1.0	0.26	ug/L			06/04/25 18:40	1
Bromomethane	ND		1.0	0.69	ug/L			06/04/25 18:40	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/04/25 18:40	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/04/25 18:40	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/04/25 18:40	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/04/25 18:40	1
Chloroethane	ND		1.0	0.32	ug/L			06/04/25 18:40	1
Chloroform	ND		1.0	0.34	ug/L			06/04/25 18:40	1
Chloromethane	ND		1.0	0.35	ug/L			06/04/25 18:40	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/04/25 18:40	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/04/25 18:40	1
Cyclohexane	ND		1.0	0.18	ug/L			06/04/25 18:40	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/04/25 18:40	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/04/25 18:40	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/04/25 18:40	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/04/25 18:40	1
Methyl acetate	ND		2.5	1.3	ug/L			06/04/25 18:40	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/04/25 18:40	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/04/25 18:40	1
Methylene Chloride	0.901	J	1.0	0.44	ug/L			06/04/25 18:40	1
Styrene	ND		1.0	0.73	ug/L			06/04/25 18:40	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/04/25 18:40	1
Toluene	ND		1.0	0.51	ug/L			06/04/25 18:40	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/04/25 18:40	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/04/25 18:40	1
Trichloroethene	ND		1.0	0.46	ug/L			06/04/25 18:40	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/04/25 18:40	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/04/25 18:40	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/04/25 18:40	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-747932/8

Matrix: Water

Analysis Batch: 747932

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		06/04/25 18:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		80 - 120					06/04/25 18:40	1
1,2-Dichloroethane-d4 (Surr)	99		77 - 120					06/04/25 18:40	1
4-Bromofluorobenzene (Surr)	100		73 - 120					06/04/25 18:40	1
Dibromofluoromethane (Surr)	102		75 - 123					06/04/25 18:40	1

Lab Sample ID: LCS 480-747932/6

Matrix: Water

Analysis Batch: 747932

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	25.0	26.2		ug/L		105	73 - 126
1,1,2,2-Tetrachloroethane	25.0	23.6		ug/L		94	76 - 120
1,1,2-Trichloroethane	25.0	23.2		ug/L		93	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.7		ug/L		95	61 - 148
1,1-Dichloroethane	25.0	23.4		ug/L		94	77 - 120
1,1-Dichloroethene	25.0	22.6		ug/L		91	66 - 127
1,2,4-Trichlorobenzene	25.0	22.8		ug/L		91	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	23.6		ug/L		94	56 - 134
1,2-Dichlorobenzene	25.0	23.3		ug/L		93	80 - 124
1,2-Dichloroethane	25.0	22.9		ug/L		92	75 - 120
1,2-Dichloropropane	25.0	23.8		ug/L		95	76 - 120
1,3-Dichlorobenzene	25.0	22.4		ug/L		90	77 - 120
1,4-Dichlorobenzene	25.0	23.0		ug/L		92	80 - 120
2-Butanone (MEK)	125	125		ug/L		100	57 - 140
2-Hexanone	125	122		ug/L		97	65 - 127
4-Methyl-2-pentanone (MIBK)	125	118		ug/L		95	71 - 125
Acetone	125	137		ug/L		109	56 - 142
Benzene	25.0	23.3		ug/L		93	71 - 124
Bromodichloromethane	25.0	23.9		ug/L		95	80 - 122
Bromoform	25.0	27.6		ug/L		110	61 - 132
Bromomethane	25.0	26.1		ug/L		104	55 - 144
Carbon disulfide	25.0	23.3		ug/L		93	59 - 134
Carbon tetrachloride	25.0	29.2		ug/L		117	72 - 134
Chlorobenzene	25.0	23.5		ug/L		94	80 - 120
Dibromochloromethane	25.0	25.5		ug/L		102	75 - 125
Chloroethane	25.0	24.1		ug/L		97	69 - 136
Chloroform	25.0	23.1		ug/L		92	73 - 127
Chloromethane	25.0	23.6		ug/L		95	68 - 124
cis-1,2-Dichloroethene	25.0	23.7		ug/L		95	74 - 124
cis-1,3-Dichloropropene	25.0	24.9		ug/L		100	74 - 124
Cyclohexane	25.0	23.5		ug/L		94	59 - 135
Dichlorodifluoromethane	25.0	23.6		ug/L		94	59 - 135
Ethylbenzene	25.0	23.6		ug/L		95	77 - 123
1,2-Dibromoethane	25.0	23.2		ug/L		93	77 - 120

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-747932/6

Matrix: Water

Analysis Batch: 747932

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Isopropylbenzene	25.0	24.3		ug/L		97	77 - 122
Methyl acetate	50.0	43.9		ug/L		88	74 - 133
Methyl tert-butyl ether	25.0	23.4		ug/L		93	77 - 120
Methylcyclohexane	25.0	24.0		ug/L		96	68 - 134
Methylene Chloride	25.0	24.9		ug/L		100	75 - 124
Styrene	25.0	24.0		ug/L		96	80 - 120
Tetrachloroethene	25.0	24.0		ug/L		96	74 - 122
Toluene	25.0	23.5		ug/L		94	80 - 122
trans-1,2-Dichloroethene	25.0	23.9		ug/L		96	73 - 127
trans-1,3-Dichloropropene	25.0	24.6		ug/L		99	80 - 120
Trichloroethene	25.0	23.0		ug/L		92	74 - 123
Trichlorofluoromethane	25.0	27.3		ug/L		109	62 - 150
Vinyl chloride	25.0	24.6		ug/L		98	65 - 133

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	97		80 - 120
1,2-Dichloroethane-d4 (Surr)	97		77 - 120
4-Bromofluorobenzene (Surr)	102		73 - 120
Dibromofluoromethane (Surr)	100		75 - 123

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-748102/1-A

Matrix: Water

Analysis Batch: 748269

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 748102

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Biphenyl	ND		5.0	0.65	ug/L		06/06/25 09:15	06/09/25 14:06	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		06/06/25 09:15	06/09/25 14:06	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		06/06/25 09:15	06/09/25 14:06	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		06/06/25 09:15	06/09/25 14:06	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		06/06/25 09:15	06/09/25 14:06	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		06/06/25 09:15	06/09/25 14:06	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		06/06/25 09:15	06/09/25 14:06	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		06/06/25 09:15	06/09/25 14:06	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		06/06/25 09:15	06/09/25 14:06	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		06/06/25 09:15	06/09/25 14:06	1
2-Chlorophenol	ND		5.0	0.53	ug/L		06/06/25 09:15	06/09/25 14:06	1
2-Methylphenol	ND		5.0	0.40	ug/L		06/06/25 09:15	06/09/25 14:06	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		06/06/25 09:15	06/09/25 14:06	1
2-Nitroaniline	ND		10	0.42	ug/L		06/06/25 09:15	06/09/25 14:06	1
2-Nitrophenol	ND		5.0	0.48	ug/L		06/06/25 09:15	06/09/25 14:06	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		06/06/25 09:15	06/09/25 14:06	1
3-Nitroaniline	ND		10	0.48	ug/L		06/06/25 09:15	06/09/25 14:06	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		06/06/25 09:15	06/09/25 14:06	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		06/06/25 09:15	06/09/25 14:06	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		06/06/25 09:15	06/09/25 14:06	1
4-Chloroaniline	ND		5.0	0.59	ug/L		06/06/25 09:15	06/09/25 14:06	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		06/06/25 09:15	06/09/25 14:06	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-748102/1-A

Matrix: Water

Analysis Batch: 748269

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 748102

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methylphenol	ND		10	0.36	ug/L		06/06/25 09:15	06/09/25 14:06	1
4-Nitroaniline	ND		10	0.25	ug/L		06/06/25 09:15	06/09/25 14:06	1
4-Nitrophenol	ND		10	1.5	ug/L		06/06/25 09:15	06/09/25 14:06	1
Acenaphthene	ND		5.0	0.41	ug/L		06/06/25 09:15	06/09/25 14:06	1
Acenaphthylene	ND		5.0	0.38	ug/L		06/06/25 09:15	06/09/25 14:06	1
Acetophenone	ND		5.0	0.54	ug/L		06/06/25 09:15	06/09/25 14:06	1
Anthracene	ND		5.0	0.28	ug/L		06/06/25 09:15	06/09/25 14:06	1
Atrazine	ND		5.0	0.46	ug/L		06/06/25 09:15	06/09/25 14:06	1
Benzaldehyde	ND		5.0	0.27	ug/L		06/06/25 09:15	06/09/25 14:06	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		06/06/25 09:15	06/09/25 14:06	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		06/06/25 09:15	06/09/25 14:06	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		06/06/25 09:15	06/09/25 14:06	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		06/06/25 09:15	06/09/25 14:06	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		06/06/25 09:15	06/09/25 14:06	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		06/06/25 09:15	06/09/25 14:06	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		06/06/25 09:15	06/09/25 14:06	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		06/06/25 09:15	06/09/25 14:06	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		06/06/25 09:15	06/09/25 14:06	1
Caprolactam	ND		5.0	2.2	ug/L		06/06/25 09:15	06/09/25 14:06	1
Carbazole	ND		5.0	0.30	ug/L		06/06/25 09:15	06/09/25 14:06	1
Chrysene	ND		5.0	0.33	ug/L		06/06/25 09:15	06/09/25 14:06	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		06/06/25 09:15	06/09/25 14:06	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		06/06/25 09:15	06/09/25 14:06	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		06/06/25 09:15	06/09/25 14:06	1
Dibenzofuran	ND		10	0.51	ug/L		06/06/25 09:15	06/09/25 14:06	1
Diethyl phthalate	ND		5.0	0.22	ug/L		06/06/25 09:15	06/09/25 14:06	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		06/06/25 09:15	06/09/25 14:06	1
Fluoranthene	ND		5.0	0.40	ug/L		06/06/25 09:15	06/09/25 14:06	1
Fluorene	ND		5.0	0.36	ug/L		06/06/25 09:15	06/09/25 14:06	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		06/06/25 09:15	06/09/25 14:06	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		06/06/25 09:15	06/09/25 14:06	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		06/06/25 09:15	06/09/25 14:06	1
Hexachloroethane	ND		5.0	0.59	ug/L		06/06/25 09:15	06/09/25 14:06	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		06/06/25 09:15	06/09/25 14:06	1
Isophorone	ND		5.0	0.43	ug/L		06/06/25 09:15	06/09/25 14:06	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		06/06/25 09:15	06/09/25 14:06	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		06/06/25 09:15	06/09/25 14:06	1
Naphthalene	ND		5.0	0.76	ug/L		06/06/25 09:15	06/09/25 14:06	1
Nitrobenzene	ND		5.0	0.29	ug/L		06/06/25 09:15	06/09/25 14:06	1
Pentachlorophenol	ND		10	2.2	ug/L		06/06/25 09:15	06/09/25 14:06	1
Phenanthrene	ND		5.0	0.44	ug/L		06/06/25 09:15	06/09/25 14:06	1
Phenol	ND		5.0	0.39	ug/L		06/06/25 09:15	06/09/25 14:06	1
Pyrene	ND		5.0	0.34	ug/L		06/06/25 09:15	06/09/25 14:06	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
2-Propanone, 1-chloro-	3.95	T J N	ug/L		3.50	78-95-5	06/06/25 09:15	06/09/25 14:06	1
Pyridine	0.508	J	ug/L		4.04	110-86-1	06/06/25 09:15	06/09/25 14:06	1
Unknown	2.81	T J	ug/L		4.63	N/A	06/06/25 09:15	06/09/25 14:06	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-748102/1-A

Matrix: Water

Analysis Batch: 748269

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 748102

	MB	MB							
Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
2-Hexene, 3,5,5-trimethyl-	2.29	T J N	ug/L		4.73	26456-76-8	06/06/25 09:15	06/09/25 14:06	1
Unknown	30.1	T J	ug/L		4.84	N/A	06/06/25 09:15	06/09/25 14:06	1
Unknown	2.53	T J	ug/L		4.89	N/A	06/06/25 09:15	06/09/25 14:06	1
Benzene, 1,3-dimethyl-	6.99	T J N	ug/L		5.18	108-38-3	06/06/25 09:15	06/09/25 14:06	1
Unknown	2.31	T J	ug/L		5.77	N/A	06/06/25 09:15	06/09/25 14:06	1
Unknown	3.05	T J	ug/L		12.43	N/A	06/06/25 09:15	06/09/25 14:06	1
Unknown	1.74	T J	ug/L		13.93	N/A	06/06/25 09:15	06/09/25 14:06	1
Unknown	1.75	T J	ug/L		14.01	N/A	06/06/25 09:15	06/09/25 14:06	1
Unknown	6.25	T J	ug/L		14.55	N/A	06/06/25 09:15	06/09/25 14:06	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	88		29 - 129				06/06/25 09:15	06/09/25 14:06	1
Phenol-d5 (Surr)	43		10 - 120				06/06/25 09:15	06/09/25 14:06	1
p-Terphenyl-d14 (Surr)	107		33 - 132				06/06/25 09:15	06/09/25 14:06	1
2,4,6-Tribromophenol (Surr)	98		25 - 144				06/06/25 09:15	06/09/25 14:06	1
2-Fluorobiphenyl (Surr)	99		53 - 126				06/06/25 09:15	06/09/25 14:06	1
2-Fluorophenol (Surr)	66		24 - 120				06/06/25 09:15	06/09/25 14:06	1

Lab Sample ID: LCS 480-748102/2-A

Matrix: Water

Analysis Batch: 748269

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 748102

	Spike	LCS	LCS					%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Biphenyl	32.0	31.1		ug/L		97	59 - 120		
bis (2-chloroisopropyl) ether	32.0	31.7		ug/L		99	21 - 136		
2,4,5-Trichlorophenol	32.0	35.8		ug/L		112	65 - 126		
2,4,6-Trichlorophenol	32.0	30.2		ug/L		94	64 - 120		
2,4-Dichlorophenol	32.0	31.8		ug/L		100	63 - 120		
2,4-Dimethylphenol	32.0	33.4		ug/L		104	47 - 120		
2,4-Dinitrophenol	64.0	74.2		ug/L		116	31 - 137		
2,4-Dinitrotoluene	32.0	34.0		ug/L		106	69 - 120		
2,6-Dinitrotoluene	32.0	34.1		ug/L		107	68 - 120		
2-Chloronaphthalene	32.0	30.6		ug/L		96	58 - 120		
2-Chlorophenol	32.0	29.9		ug/L		93	48 - 120		
2-Methylphenol	32.0	28.9		ug/L		90	39 - 120		
2-Methylnaphthalene	32.0	30.3		ug/L		95	59 - 120		
2-Nitroaniline	32.0	32.7		ug/L		102	54 - 127		
2-Nitrophenol	32.0	36.0		ug/L		112	52 - 125		
3,3'-Dichlorobenzidine	32.0	22.3		ug/L		70	49 - 135		
3-Nitroaniline	32.0	28.8		ug/L		90	51 - 120		
4,6-Dinitro-2-methylphenol	64.0	80.0		ug/L		125	46 - 136		
4-Bromophenyl phenyl ether	32.0	32.7		ug/L		102	65 - 120		
4-Chloro-3-methylphenol	32.0	32.0		ug/L		100	61 - 123		
4-Chloroaniline	32.0	19.7		ug/L		61	30 - 120		
4-Chlorophenyl phenyl ether	32.0	32.7		ug/L		102	62 - 120		
4-Methylphenol	32.0	27.0		ug/L		84	29 - 131		
4-Nitroaniline	32.0	29.6		ug/L		92	65 - 120		
4-Nitrophenol	64.0	46.5		ug/L		73	45 - 120		

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-748102/2-A

Matrix: Water

Analysis Batch: 748269

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 748102

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	32.0	32.7		ug/L		102	60 - 120
Acenaphthylene	32.0	31.4		ug/L		98	63 - 120
Acetophenone	32.0	32.0		ug/L		100	45 - 120
Anthracene	32.0	36.1		ug/L		113	67 - 120
Atrazine	32.0	30.7		ug/L		96	71 - 130
Benzaldehyde	32.0	23.6		ug/L		74	10 - 140
Benzo[a]anthracene	32.0	32.7		ug/L		102	70 - 121
Benzo[a]pyrene	32.0	32.0		ug/L		100	60 - 123
Benzo[b]fluoranthene	32.0	32.0		ug/L		100	66 - 126
Benzo[g,h,i]perylene	32.0	32.7		ug/L		102	66 - 150
Benzo[k]fluoranthene	32.0	34.6		ug/L		108	65 - 124
Bis(2-chloroethoxy)methane	32.0	32.1		ug/L		100	50 - 128
Bis(2-chloroethyl)ether	32.0	37.6		ug/L		117	44 - 120
Bis(2-ethylhexyl) phthalate	32.0	29.5		ug/L		92	63 - 139
Butyl benzyl phthalate	32.0	30.5		ug/L		95	70 - 129
Caprolactam	32.0	7.68		ug/L		24	22 - 120
Carbazole	32.0	38.2		ug/L		119	66 - 147
Chrysene	32.0	32.7		ug/L		102	69 - 120
Dibenz(a,h)anthracene	32.0	31.7		ug/L		99	65 - 135
Di-n-butyl phthalate	32.0	32.8		ug/L		102	69 - 131
Di-n-octyl phthalate	32.0	28.6		ug/L		89	63 - 140
Dibenzofuran	32.0	32.8		ug/L		103	66 - 120
Diethyl phthalate	32.0	35.6		ug/L		111	59 - 127
Dimethyl phthalate	32.0	33.7		ug/L		105	68 - 120
Fluoranthene	32.0	36.0		ug/L		113	69 - 126
Fluorene	32.0	34.2		ug/L		107	66 - 120
Hexachlorobenzene	32.0	34.4		ug/L		107	61 - 120
Hexachlorobutadiene	32.0	26.1		ug/L		82	35 - 120
Hexachlorocyclopentadiene	32.0	18.0		ug/L		56	31 - 120
Hexachloroethane	32.0	27.5		ug/L		86	33 - 120
Indeno[1,2,3-cd]pyrene	32.0	31.6		ug/L		99	69 - 146
Isophorone	32.0	32.5		ug/L		102	55 - 120
N-Nitrosodi-n-propylamine	32.0	31.2		ug/L		97	32 - 140
N-Nitrosodiphenylamine	32.0	33.4		ug/L		105	61 - 120
Naphthalene	32.0	30.8		ug/L		96	57 - 120
Nitrobenzene	32.0	31.8		ug/L		99	53 - 123
Pentachlorophenol	64.0	66.1		ug/L		103	10 - 136
Phenanthrene	32.0	33.8		ug/L		106	68 - 120
Phenol	32.0	17.2		ug/L		54	17 - 120
Pyrene	32.0	34.1		ug/L		106	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5 (Surr)	98		29 - 129
Phenol-d5 (Surr)	53		10 - 120
p-Terphenyl-d14 (Surr)	99		33 - 132
2,4,6-Tribromophenol (Surr)	111		25 - 144
2-Fluorobiphenyl (Surr)	103		53 - 126
2-Fluorophenol (Surr)	71		24 - 120

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 480-748017/1-A

Matrix: Water

Analysis Batch: 748083

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 748017

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		06/05/25 13:38	06/06/25 11:01	1
Isotope Dilution	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	30		15 - 110				06/05/25 13:38	06/06/25 11:01	1

Lab Sample ID: LCS 480-748017/2-A

Matrix: Water

Analysis Batch: 748083

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 748017

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	2.00	2.20		ug/L		110	40 - 140
Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits				
1,4-Dioxane-d8	31		15 - 110				

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-748149/1-A

Matrix: Water

Analysis Batch: 748247

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 748149

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		06/06/25 13:24	06/09/25 09:23	1
4,4'-DDE	ND		0.050	0.012	ug/L		06/06/25 13:24	06/09/25 09:23	1
4,4'-DDT	ND		0.050	0.011	ug/L		06/06/25 13:24	06/09/25 09:23	1
Aldrin	ND		0.050	0.0081	ug/L		06/06/25 13:24	06/09/25 09:23	1
alpha-BHC	ND		0.050	0.0077	ug/L		06/06/25 13:24	06/09/25 09:23	1
cis-Chlordane	ND		0.050	0.015	ug/L		06/06/25 13:24	06/09/25 09:23	1
beta-BHC	ND		0.050	0.025	ug/L		06/06/25 13:24	06/09/25 09:23	1
delta-BHC	ND		0.050	0.010	ug/L		06/06/25 13:24	06/09/25 09:23	1
Dieldrin	ND		0.050	0.0098	ug/L		06/06/25 13:24	06/09/25 09:23	1
Endosulfan I	ND		0.050	0.011	ug/L		06/06/25 13:24	06/09/25 09:23	1
Endosulfan II	ND		0.050	0.012	ug/L		06/06/25 13:24	06/09/25 09:23	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		06/06/25 13:24	06/09/25 09:23	1
Endrin	ND		0.050	0.014	ug/L		06/06/25 13:24	06/09/25 09:23	1
Endrin aldehyde	ND		0.050	0.016	ug/L		06/06/25 13:24	06/09/25 09:23	1
Endrin ketone	ND		0.050	0.012	ug/L		06/06/25 13:24	06/09/25 09:23	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		06/06/25 13:24	06/09/25 09:23	1
trans-Chlordane	ND		0.050	0.011	ug/L		06/06/25 13:24	06/09/25 09:23	1
Heptachlor	ND		0.050	0.0085	ug/L		06/06/25 13:24	06/09/25 09:23	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		06/06/25 13:24	06/09/25 09:23	1
Methoxychlor	ND		0.050	0.014	ug/L		06/06/25 13:24	06/09/25 09:23	1
Toxaphene	ND		0.50	0.12	ug/L		06/06/25 13:24	06/09/25 09:23	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	100		10 - 120				06/06/25 13:24	06/09/25 09:23	1
DCB Decachlorobiphenyl	94		10 - 120				06/06/25 13:24	06/09/25 09:23	1
Tetrachloro-m-xylene	92		10 - 120				06/06/25 13:24	06/09/25 09:23	1
Tetrachloro-m-xylene	83		10 - 120				06/06/25 13:24	06/09/25 09:23	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: LCS 480-748149/2-A

Matrix: Water

Analysis Batch: 748247

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 748149

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.400	0.360		ug/L		90	66 - 143
4,4'-DDE	0.400	0.367		ug/L		92	50 - 125
4,4'-DDT	0.400	0.339		ug/L		85	64 - 138
Aldrin	0.400	0.328		ug/L		82	26 - 120
alpha-BHC	0.400	0.351		ug/L		88	34 - 120
cis-Chlordane	0.400	0.356		ug/L		89	51 - 127
beta-BHC	0.400	0.355		ug/L		89	53 - 132
delta-BHC	0.400	0.363		ug/L		91	47 - 131
Dieldrin	0.400	0.380		ug/L		95	64 - 142
Endosulfan I	0.400	0.412		ug/L		103	48 - 140
Endosulfan II	0.400	0.382		ug/L		96	71 - 146
Endosulfan sulfate	0.400	0.418		ug/L		104	48 - 153
Endrin	0.400	0.368		ug/L		92	63 - 142
Endrin aldehyde	0.400	0.350		ug/L		87	50 - 142
Endrin ketone	0.400	0.434		ug/L		109	73 - 146
gamma-BHC (Lindane)	0.400	0.351		ug/L		88	42 - 128
trans-Chlordane	0.400	0.357		ug/L		89	47 - 131
Heptachlor	0.400	0.354		ug/L		88	44 - 125
Heptachlor epoxide	0.400	0.422		ug/L		105	63 - 142
Methoxychlor	0.400	0.415		ug/L		104	54 - 158

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	108		10 - 120
DCB Decachlorobiphenyl	88		10 - 120
Tetrachloro-m-xylene	94		10 - 120
Tetrachloro-m-xylene	87		10 - 120

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-748243/1-A

Matrix: Water

Analysis Batch: 748352

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 748243

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	ND		0.50	0.18	ug/L		06/09/25 08:25	06/10/25 09:47	1
PCB-1221	ND		0.50	0.18	ug/L		06/09/25 08:25	06/10/25 09:47	1
PCB-1232	ND		0.50	0.18	ug/L		06/09/25 08:25	06/10/25 09:47	1
PCB-1242	ND		0.50	0.18	ug/L		06/09/25 08:25	06/10/25 09:47	1
PCB-1248	ND		0.50	0.18	ug/L		06/09/25 08:25	06/10/25 09:47	1
PCB-1254	ND		0.50	0.25	ug/L		06/09/25 08:25	06/10/25 09:47	1
PCB-1260	ND		0.50	0.25	ug/L		06/09/25 08:25	06/10/25 09:47	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene	78		10 - 145	06/09/25 08:25	06/10/25 09:47	1
Tetrachloro-m-xylene	75		10 - 145	06/09/25 08:25	06/10/25 09:47	1
DCB Decachlorobiphenyl	115		10 - 123	06/09/25 08:25	06/10/25 09:47	1
DCB Decachlorobiphenyl	102		10 - 123	06/09/25 08:25	06/10/25 09:47	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 480-748243/2-A

Matrix: Water

Analysis Batch: 748352

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 748243

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	4.00	3.45		ug/L		86	62 - 130
PCB-1260	4.00	3.52		ug/L		88	56 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	88		10 - 145
Tetrachloro-m-xylene	80		10 - 145
DCB Decachlorobiphenyl	101		10 - 123
DCB Decachlorobiphenyl	81		10 - 123

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 410-654431/1-A

Matrix: Water

Analysis Batch: 654447

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 654431

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.0	1.1	ng/L		06/07/25 12:34	06/08/25 03:13	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.60	ng/L		06/07/25 12:34	06/08/25 03:13	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.50	ng/L		06/07/25 12:34	06/08/25 03:13	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.80	ng/L		06/07/25 12:34	06/08/25 03:13	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.90	ng/L		06/07/25 12:34	06/08/25 03:13	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.50	ng/L		06/07/25 12:34	06/08/25 03:13	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.50	ng/L		06/07/25 12:34	06/08/25 03:13	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.50	ng/L		06/07/25 12:34	06/08/25 03:13	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.50	ng/L		06/07/25 12:34	06/08/25 03:13	1
Perfluorotridecanoic acid (PFTTrDA)	ND		2.0	0.50	ng/L		06/07/25 12:34	06/08/25 03:13	1
Perfluorotetradecanoic acid (PFTeDA)	ND		2.0	0.50	ng/L		06/07/25 12:34	06/08/25 03:13	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.50	ng/L		06/07/25 12:34	06/08/25 03:13	1
Perfluoropentanesulfonic acid (PFPeS)	ND		2.0	0.50	ng/L		06/07/25 12:34	06/08/25 03:13	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.80	ng/L		06/07/25 12:34	06/08/25 03:13	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		2.0	0.50	ng/L		06/07/25 12:34	06/08/25 03:13	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.50	ng/L		06/07/25 12:34	06/08/25 03:13	1
Perfluorononanesulfonic acid (PFNS)	ND		2.0	0.50	ng/L		06/07/25 12:34	06/08/25 03:13	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.50	ng/L		06/07/25 12:34	06/08/25 03:13	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.60	ng/L		06/07/25 12:34	06/08/25 03:13	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		4.0	1.0	ng/L		06/07/25 12:34	06/08/25 03:13	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		4.0	1.0	ng/L		06/07/25 12:34	06/08/25 03:13	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		4.0	1.0	ng/L		06/07/25 12:34	06/08/25 03:13	1
Perfluorooctanesulfonamide (PFOSA)	ND		2.0	0.50	ng/L		06/07/25 12:34	06/08/25 03:13	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		2.0	0.50	ng/L		06/07/25 12:34	06/08/25 03:13	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		2.0	0.50	ng/L		06/07/25 12:34	06/08/25 03:13	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.50	ng/L		06/07/25 12:34	06/08/25 03:13	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 410-654431/1-A

Matrix: Water

Analysis Batch: 654447

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 654431

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.50	ng/L		06/07/25 12:34	06/08/25 03:13	1
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND		10	2.5	ng/L		06/07/25 12:34	06/08/25 03:13	1
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND		10	2.5	ng/L		06/07/25 12:34	06/08/25 03:13	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		2.0	0.75	ng/L		06/07/25 12:34	06/08/25 03:13	1
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.50	ng/L		06/07/25 12:34	06/08/25 03:13	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		2.0	0.50	ng/L		06/07/25 12:34	06/08/25 03:13	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		2.0	0.50	ng/L		06/07/25 12:34	06/08/25 03:13	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		2.0	0.50	ng/L		06/07/25 12:34	06/08/25 03:13	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		2.0	0.50	ng/L		06/07/25 12:34	06/08/25 03:13	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		2.0	0.50	ng/L		06/07/25 12:34	06/08/25 03:13	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		2.0	0.50	ng/L		06/07/25 12:34	06/08/25 03:13	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		4.0	1.0	ng/L		06/07/25 12:34	06/08/25 03:13	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		10	2.8	ng/L		06/07/25 12:34	06/08/25 03:13	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		10	2.5	ng/L		06/07/25 12:34	06/08/25 03:13	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	81.2		5 - 130	06/07/25 12:34	06/08/25 03:13	1
13C5-PFPeA	81.8		40 - 130	06/07/25 12:34	06/08/25 03:13	1
13C5-PFHxA	79.6		40 - 130	06/07/25 12:34	06/08/25 03:13	1
13C4-PFHpA	74.1		40 - 130	06/07/25 12:34	06/08/25 03:13	1
13C8-PFOA	75.3		40 - 130	06/07/25 12:34	06/08/25 03:13	1
13C9-PFNA	75.0		40 - 130	06/07/25 12:34	06/08/25 03:13	1
13C6-PFDA	74.2		40 - 130	06/07/25 12:34	06/08/25 03:13	1
13C7-PFUnA	74.9		30 - 130	06/07/25 12:34	06/08/25 03:13	1
13C2-PFTeDA	70.9		10 - 130	06/07/25 12:34	06/08/25 03:13	1
13C3-PFBS	72.7		40 - 135	06/07/25 12:34	06/08/25 03:13	1
13C3-PFHxS	76.7		40 - 130	06/07/25 12:34	06/08/25 03:13	1
13C8-PFOS	81.4		40 - 130	06/07/25 12:34	06/08/25 03:13	1
13C8-PFOSA	69.4		40 - 130	06/07/25 12:34	06/08/25 03:13	1
d3-NMeFOSAA	85.8		40 - 170	06/07/25 12:34	06/08/25 03:13	1
d5-NEtFOSAA	93.7		25 - 135	06/07/25 12:34	06/08/25 03:13	1
13C2 4:2 FTS	78.0		40 - 200	06/07/25 12:34	06/08/25 03:13	1
13C2 6:2 FTS	86.7		40 - 200	06/07/25 12:34	06/08/25 03:13	1
13C2 8:2 FTS	85.1		40 - 300	06/07/25 12:34	06/08/25 03:13	1
13C3-HFPO-DA	72.1		40 - 130	06/07/25 12:34	06/08/25 03:13	1
D7-NMeFOSE	68.3		10 - 130	06/07/25 12:34	06/08/25 03:13	1
D9-NEtFOSE	62.7		10 - 130	06/07/25 12:34	06/08/25 03:13	1
d5-NEtPFOSA	57.1		10 - 130	06/07/25 12:34	06/08/25 03:13	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 410-654431/1-A

Matrix: Water

Analysis Batch: 654447

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 654431

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
d3-NMePFOSA	51.7		10 - 130	06/07/25 12:34	06/08/25 03:13	1
13C2 PFDoA	77.2		10 - 130	06/07/25 12:34	06/08/25 03:13	1

Lab Sample ID: LCS 410-654431/2-A

Matrix: Water

Analysis Batch: 654447

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 654431

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	80.0	73.0		ng/L		91	70 - 140
Perfluoropentanoic acid (PFPeA)	40.0	38.1		ng/L		95	65 - 135
Perfluorohexanoic acid (PFHxA)	40.0	34.7		ng/L		87	70 - 145
Perfluoroheptanoic acid (PFHpA)	40.0	38.3		ng/L		96	70 - 150
Perfluorooctanoic acid (PFOA)	40.0	38.7		ng/L		97	70 - 150
Perfluorononanoic acid (PFNA)	40.0	35.6		ng/L		89	70 - 150
Perfluorodecanoic acid (PFDA)	40.0	37.8		ng/L		95	70 - 140
Perfluoroundecanoic acid (PFUnA)	40.0	37.2		ng/L		93	70 - 145
Perfluorododecanoic acid (PFDoA)	40.0	37.1		ng/L		93	70 - 140
Perfluorotridecanoic acid (PFTrDA)	40.0	35.9		ng/L		90	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	40.0	36.1		ng/L		90	60 - 140
Perfluorobutanesulfonic acid (PFBS)	35.5	28.8		ng/L		81	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	37.6	33.7		ng/L		90	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	36.5	32.2		ng/L		88	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	38.2	37.3		ng/L		98	70 - 150
Perfluorooctanesulfonic acid (PFOS)	37.2	34.2		ng/L		92	55 - 150
Perfluorononanesulfonic acid (PFNS)	38.5	33.5		ng/L		87	65 - 145
Perfluorodecanesulfonic acid (PFDS)	38.6	39.7		ng/L		103	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	38.8	33.6		ng/L		87	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	75.0	63.9		ng/L		85	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	76.2	62.6		ng/L		82	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	76.8	68.1		ng/L		89	60 - 150
Perfluorooctanesulfonamide (PFOSA)	40.0	39.9		ng/L		100	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	40.0	38.3		ng/L		96	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	40.0	36.3		ng/L		91	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	31.9		ng/L		80	50 - 140

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-654431/2-A

Matrix: Water

Analysis Batch: 654447

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 654431

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	35.1		ng/L		88	70 - 145
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	200	180		ng/L		90	70 - 145
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	200	181		ng/L		91	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	30.0	29.1		ng/L		97	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	34.9		ng/L		92	65 - 145
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.0	39.4		ng/L		98	55 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA)	40.0	38.2		ng/L		96	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	40.0	37.2		ng/L		93	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	37.4	32.4		ng/L		87	70 - 155
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	37.8	32.1		ng/L		85	55 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	35.7	24.0	*-	ng/L		67	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	80.0	70.7		ng/L		88	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	200	132	*-	ng/L		66	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	200	137		ng/L		69	50 - 145

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4-PFBA	80.5		5 - 130
13C5-PFPeA	76.4		40 - 130
13C5-PFHxA	80.3		40 - 130
13C4-PFHpA	77.2		40 - 130
13C8-PFOA	75.2		40 - 130
13C9-PFNA	74.9		40 - 130
13C6-PFDA	71.4		40 - 130
13C7-PFUnA	76.7		30 - 130
13C2-PFTeDA	70.1		10 - 130
13C3-PFBS	80.9		40 - 135
13C3-PFHxS	76.1		40 - 130
13C8-PFOS	73.5		40 - 130
13C8-PFOSA	67.6		40 - 130
d3-NMeFOSAA	88.8		40 - 170
d5-NEtFOSAA	87.6		25 - 135
13C2 4:2 FTS	84.9		40 - 200
13C2 6:2 FTS	85.7		40 - 200
13C2 8:2 FTS	92.9		40 - 300
13C3-HFPO-DA	75.0		40 - 130
D7-NMeFOSE	62.1		10 - 130

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-654431/2-A

Matrix: Water

Analysis Batch: 654447

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 654431

Isotope Dilution	LCS		Limits
	%Recovery	Qualifier	
D9-NEtFOSE	54.6		10 - 130
d5-NEtPFOSA	56.8		10 - 130
d3-NMePFOSA	54.3		10 - 130
13C2 PFDoA	76.6		10 - 130

Lab Sample ID: LCSD 410-654431/3-A

Matrix: Water

Analysis Batch: 654447

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 654431

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Perfluorobutanoic acid (PFBA)	80.0	72.8		ng/L		91	70 - 140		0	30
Perfluoropentanoic acid (PFPeA)	40.0	35.8		ng/L		90	65 - 135		6	30
Perfluorohexanoic acid (PFHxA)	40.0	32.9		ng/L		82	70 - 145		5	30
Perfluoroheptanoic acid (PFHpA)	40.0	35.5		ng/L		89	70 - 150		8	30
Perfluorooctanoic acid (PFOA)	40.0	38.3		ng/L		96	70 - 150		1	30
Perfluorononanoic acid (PFNA)	40.0	38.6		ng/L		96	70 - 150		8	30
Perfluorodecanoic acid (PFDA)	40.0	38.9		ng/L		97	70 - 140		3	30
Perfluoroundecanoic acid (PFUnA)	40.0	36.8		ng/L		92	70 - 145		1	30
Perfluorododecanoic acid (PFDoA)	40.0	34.7		ng/L		87	70 - 140		7	30
Perfluorotridecanoic acid (PFTrDA)	40.0	39.2		ng/L		98	65 - 140		9	30
Perfluorotetradecanoic acid (PFTeDA)	40.0	42.3		ng/L		106	60 - 140		16	30
Perfluorobutanesulfonic acid (PFBS)	35.5	31.1		ng/L		88	60 - 145		8	30
Perfluoropentanesulfonic acid (PFPeS)	37.6	33.6		ng/L		89	65 - 140		0	30
Perfluorohexanesulfonic acid (PFHxS)	36.5	31.0		ng/L		85	65 - 145		4	30
Perfluoroheptanesulfonic acid (PFHpS)	38.2	33.9		ng/L		89	70 - 150		9	30
Perfluorooctanesulfonic acid (PFOS)	37.2	32.7		ng/L		88	55 - 150		5	30
Perfluorononanesulfonic acid (PFNS)	38.5	33.3		ng/L		86	65 - 145		1	30
Perfluorodecanesulfonic acid (PFDS)	38.6	37.0		ng/L		96	60 - 145		7	30
Perfluorododecanesulfonic acid (PFDoS)	38.8	32.2		ng/L		83	50 - 145		4	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	75.0	67.9		ng/L		90	70 - 145		6	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	76.2	67.1		ng/L		88	65 - 155		7	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	76.8	66.3		ng/L		86	60 - 150		3	30
Perfluorooctanesulfonamide (PFOSA)	40.0	39.4		ng/L		99	70 - 145		1	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	40.0	38.7		ng/L		97	60 - 150		1	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	40.0	37.0		ng/L		93	65 - 145		2	30

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCSD 410-654431/3-A

Matrix: Water

Analysis Batch: 654447

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 654431

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	35.4		ng/L		89	50 - 140	10	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	35.5		ng/L		89	70 - 145	1	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	200	181		ng/L		91	70 - 145	1	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	200	182		ng/L		91	70 - 135	1	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	30.0	28.0		ng/L		93	70 - 140	4	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	35.4		ng/L		94	65 - 145	1	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.0	34.7		ng/L		87	55 - 140	13	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	40.0	35.2		ng/L		88	60 - 150	8	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	40.0	34.2		ng/L		86	50 - 150	8	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	37.4	33.4		ng/L		90	70 - 155	3	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	37.8	34.2		ng/L		91	55 - 160	6	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	35.7	28.9		ng/L		81	70 - 140	18	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)	80.0	65.7		ng/L		82	65 - 130	7	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	200	125	*-	ng/L		63	70 - 135	5	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	200	119		ng/L		60	50 - 145	14	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
13C4-PFBA	85.1		5 - 130
13C5-PFPeA	80.3		40 - 130
13C5-PFHxA	81.4		40 - 130
13C4-PFHpA	83.9		40 - 130
13C8-PFOA	84.3		40 - 130
13C9-PFNA	79.7		40 - 130
13C6-PFDA	84.1		40 - 130
13C7-PFUnA	84.7		30 - 130
13C2-PFTeDA	72.9		10 - 130
13C3-PFBS	79.4		40 - 135
13C3-PFHxS	82.0		40 - 130
13C8-PFOS	85.0		40 - 130
13C8-PFOSA	73.3		40 - 130
d3-NMeFOSAA	92.4		40 - 170
d5-NEtFOSAA	94.3		25 - 135
13C2 4:2 FTS	86.5		40 - 200
13C2 6:2 FTS	91.0		40 - 200
13C2 8:2 FTS	92.7		40 - 300
13C3-HFPO-DA	74.2		40 - 130

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCSD 410-654431/3-A

Matrix: Water

Analysis Batch: 654447

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 654431

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
D7-NMeFOSE	69.9		10 - 130
D9-NEtFOSE	62.6		10 - 130
d5-NEtPFOSA	63.1		10 - 130
d3-NMePFOSA	60.0		10 - 130
13C2 PFDoA	87.4		10 - 130

Lab Sample ID: LLCS 410-654431/4-A

Matrix: Water

Analysis Batch: 654447

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 654431

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	8.00	7.99		ng/L		100	70 - 140
Perfluoropentanoic acid (PFPeA)	4.00	3.95		ng/L		99	65 - 135
Perfluorohexanoic acid (PFHxA)	4.00	4.83		ng/L		121	70 - 145
Perfluoroheptanoic acid (PFHpA)	4.00	4.37		ng/L		109	70 - 150
Perfluorooctanoic acid (PFOA)	4.00	4.68		ng/L		117	70 - 150
Perfluorononanoic acid (PFNA)	4.00	3.91		ng/L		98	70 - 150
Perfluorodecanoic acid (PFDA)	4.00	4.74		ng/L		118	70 - 140
Perfluoroundecanoic acid (PFUnA)	4.00	4.25		ng/L		106	70 - 145
Perfluorododecanoic acid (PFDoA)	4.00	4.04		ng/L		101	70 - 140
Perfluorotridecanoic acid (PFTrDA)	4.00	4.35		ng/L		109	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	4.00	4.47		ng/L		112	60 - 140
Perfluorobutanesulfonic acid (PFBS)	3.55	3.21		ng/L		90	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	3.76	3.79		ng/L		101	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	3.65	4.03		ng/L		111	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	3.82	4.16		ng/L		109	70 - 150
Perfluorooctanesulfonic acid (PFOS)	3.72	4.04		ng/L		109	55 - 150
Perfluorononanesulfonic acid (PFNS)	3.85	3.37		ng/L		87	65 - 145
Perfluorodecanesulfonic acid (PFDS)	3.86	3.76		ng/L		98	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	3.88	3.56		ng/L		92	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	7.50	7.41		ng/L		99	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	7.62	6.08		ng/L		80	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	7.66	6.67		ng/L		87	60 - 150
Perfluorooctanesulfonamide (PFOSA)	4.00	3.91		ng/L		98	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	4.00	4.14		ng/L		104	60 - 150

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 410-654431/4-A

Matrix: Water

Analysis Batch: 654447

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 654431

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
N-ethylperfluorooctane sulfonamide (NEtFOSA)	4.00	3.72		ng/L		93	65 - 145
N-methylperfluorooctanesulfonamide (NMtFOSA)	4.00	3.36		ng/L		84	50 - 140
N-ethylperfluorooctanesulfonamide (NEtFOSA)	4.00	4.12		ng/L		103	70 - 145
N-methylperfluorooctanesulfonamide (NMtFOSA)	20.0	18.8		ng/L		94	70 - 145
N-ethylperfluorooctanesulfonamide (NEtFOSA)	20.0	20.5		ng/L		102	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	3.00	3.35		ng/L		112	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3.78	3.75		ng/L		99	65 - 145
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.00	3.87		ng/L		97	55 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.00	3.98		ng/L		99	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.00	4.47		ng/L		112	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	3.74	3.44		ng/L		92	70 - 155
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	3.78	3.01		ng/L		80	55 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	3.57	3.05		ng/L		86	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	8.00	6.96		ng/L		87	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	20.0	13.8	*-	ng/L		69	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	20.0	9.91	J	ng/L		50	50 - 145

Isotope Dilution	LLCS		Limits
	%Recovery	Qualifier	
13C4-PFBA	91.7		5 - 130
13C5-PFPeA	90.9		40 - 130
13C5-PFHxA	87.2		40 - 130
13C4-PFHpA	87.6		40 - 130
13C8-PFOA	92.9		40 - 130
13C9-PFNA	86.8		40 - 130
13C6-PFDA	88.3		40 - 130
13C7-PFUnA	87.7		30 - 130
13C2-PFTeDA	73.8		10 - 130
13C3-PFBS	92.6		40 - 135
13C3-PFHxS	88.5		40 - 130
13C8-PFOS	86.1		40 - 130
13C8-PFOSA	72.1		40 - 130
d3-NMeFOSAA	86.7		40 - 170
d5-NEtFOSAA	88.2		25 - 135
13C2 4:2 FTS	99.3		40 - 200
13C2 6:2 FTS	108		40 - 200

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 410-654431/4-A

Matrix: Water

Analysis Batch: 654447

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 654431

Isotope Dilution	LLCS LLCS		Limits
	%Recovery	Qualifier	
13C2 8:2 FTS	104		40 - 300
13C3-HFPO-DA	87.2		40 - 130
D7-NMeFOSE	72.8		10 - 130
D9-NEtFOSE	65.0		10 - 130
d5-NEtPFOSA	55.0		10 - 130
d3-NMePFOSA	54.8		10 - 130
13C2 PFDoA	83.8		10 - 130

Lab Sample ID: MB 410-655611/7-A

Matrix: Water

Analysis Batch: 655485

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 655611

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	ND		4.0	1.1	ng/L		06/10/25 14:39	06/11/25 01:52	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.60	ng/L		06/10/25 14:39	06/11/25 01:52	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.50	ng/L		06/10/25 14:39	06/11/25 01:52	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.80	ng/L		06/10/25 14:39	06/11/25 01:52	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.90	ng/L		06/10/25 14:39	06/11/25 01:52	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.50	ng/L		06/10/25 14:39	06/11/25 01:52	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.50	ng/L		06/10/25 14:39	06/11/25 01:52	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.50	ng/L		06/10/25 14:39	06/11/25 01:52	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.50	ng/L		06/10/25 14:39	06/11/25 01:52	1
Perfluorotridecanoic acid (PFTTrDA)	ND		2.0	0.50	ng/L		06/10/25 14:39	06/11/25 01:52	1
Perfluorotetradecanoic acid (PFTeDA)	ND		2.0	0.50	ng/L		06/10/25 14:39	06/11/25 01:52	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.50	ng/L		06/10/25 14:39	06/11/25 01:52	1
Perfluoropentanesulfonic acid (PFPeS)	ND		2.0	0.50	ng/L		06/10/25 14:39	06/11/25 01:52	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.80	ng/L		06/10/25 14:39	06/11/25 01:52	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		2.0	0.50	ng/L		06/10/25 14:39	06/11/25 01:52	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.50	ng/L		06/10/25 14:39	06/11/25 01:52	1
Perfluorononanesulfonic acid (PFNS)	ND		2.0	0.50	ng/L		06/10/25 14:39	06/11/25 01:52	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.50	ng/L		06/10/25 14:39	06/11/25 01:52	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.60	ng/L		06/10/25 14:39	06/11/25 01:52	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		4.0	1.0	ng/L		06/10/25 14:39	06/11/25 01:52	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		4.0	1.0	ng/L		06/10/25 14:39	06/11/25 01:52	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		4.0	1.0	ng/L		06/10/25 14:39	06/11/25 01:52	1
Perfluorooctanesulfonamide (PFOSA)	ND		2.0	0.50	ng/L		06/10/25 14:39	06/11/25 01:52	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		2.0	0.50	ng/L		06/10/25 14:39	06/11/25 01:52	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		2.0	0.50	ng/L		06/10/25 14:39	06/11/25 01:52	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.50	ng/L		06/10/25 14:39	06/11/25 01:52	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.50	ng/L		06/10/25 14:39	06/11/25 01:52	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		10	2.5	ng/L		06/10/25 14:39	06/11/25 01:52	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 410-655611/7-A

Matrix: Water

Analysis Batch: 655485

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 655611

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctane	ND		10	2.5	ng/L		06/10/25 14:39	06/11/25 01:52	1
sulfonamidoethanol (NEtFOSE)									
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		2.0	0.75	ng/L		06/10/25 14:39	06/11/25 01:52	1
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.50	ng/L		06/10/25 14:39	06/11/25 01:52	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		2.0	0.50	ng/L		06/10/25 14:39	06/11/25 01:52	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		2.0	0.50	ng/L		06/10/25 14:39	06/11/25 01:52	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		2.0	0.50	ng/L		06/10/25 14:39	06/11/25 01:52	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid (9Cl-PF3ONS)	ND		2.0	0.50	ng/L		06/10/25 14:39	06/11/25 01:52	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	ND		2.0	0.50	ng/L		06/10/25 14:39	06/11/25 01:52	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		2.0	0.50	ng/L		06/10/25 14:39	06/11/25 01:52	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		4.0	1.0	ng/L		06/10/25 14:39	06/11/25 01:52	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		10	2.8	ng/L		06/10/25 14:39	06/11/25 01:52	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		10	2.5	ng/L		06/10/25 14:39	06/11/25 01:52	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	105		5 - 130	06/10/25 14:39	06/11/25 01:52	1
13C5-PFPeA	88.7		40 - 130	06/10/25 14:39	06/11/25 01:52	1
13C5-PFHxA	88.7		40 - 130	06/10/25 14:39	06/11/25 01:52	1
13C4-PFHpA	82.4		40 - 130	06/10/25 14:39	06/11/25 01:52	1
13C8-PFOA	88.8		40 - 130	06/10/25 14:39	06/11/25 01:52	1
13C9-PFNA	77.8		40 - 130	06/10/25 14:39	06/11/25 01:52	1
13C6-PFDA	79.6		40 - 130	06/10/25 14:39	06/11/25 01:52	1
13C7-PFUnA	77.3		30 - 130	06/10/25 14:39	06/11/25 01:52	1
13C2-PFTeDA	61.5		10 - 130	06/10/25 14:39	06/11/25 01:52	1
13C3-PFBS	79.4		40 - 135	06/10/25 14:39	06/11/25 01:52	1
13C3-PFHxS	78.8		40 - 130	06/10/25 14:39	06/11/25 01:52	1
13C8-PFOS	75.2		40 - 130	06/10/25 14:39	06/11/25 01:52	1
13C8-PFOSA	67.2		40 - 130	06/10/25 14:39	06/11/25 01:52	1
d3-NMeFOSAA	73.3		40 - 170	06/10/25 14:39	06/11/25 01:52	1
d5-NEtFOSAA	66.3		25 - 135	06/10/25 14:39	06/11/25 01:52	1
13C2 4:2 FTS	85.4		40 - 200	06/10/25 14:39	06/11/25 01:52	1
13C2 6:2 FTS	91.8		40 - 200	06/10/25 14:39	06/11/25 01:52	1
13C2 8:2 FTS	77.1		40 - 300	06/10/25 14:39	06/11/25 01:52	1
13C3-HFPO-DA	75.7		40 - 130	06/10/25 14:39	06/11/25 01:52	1
D7-NMeFOSE	59.4		10 - 130	06/10/25 14:39	06/11/25 01:52	1
D9-NEtFOSE	51.4		10 - 130	06/10/25 14:39	06/11/25 01:52	1
d5-NEtPFOSA	43.5		10 - 130	06/10/25 14:39	06/11/25 01:52	1
d3-NMePFOSA	45.2		10 - 130	06/10/25 14:39	06/11/25 01:52	1
13C2 PFDoA	72.1		10 - 130	06/10/25 14:39	06/11/25 01:52	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-655611/8-A

Matrix: Water

Analysis Batch: 655485

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 655611

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	80.0	70.6		ng/L		88	70 - 140
Perfluoropentanoic acid (PFPeA)	40.0	37.5		ng/L		94	65 - 135
Perfluorohexanoic acid (PFHxA)	40.0	37.1		ng/L		93	70 - 145
Perfluoroheptanoic acid (PFHpA)	40.0	41.1		ng/L		103	70 - 150
Perfluorooctanoic acid (PFOA)	40.0	35.4		ng/L		89	70 - 150
Perfluorononanoic acid (PFNA)	40.0	36.2		ng/L		91	70 - 150
Perfluorodecanoic acid (PFDA)	40.0	37.1		ng/L		93	70 - 140
Perfluoroundecanoic acid (PFUnA)	40.0	34.7		ng/L		87	70 - 145
Perfluorododecanoic acid (PFDoA)	40.0	37.9		ng/L		95	70 - 140
Perfluorotridecanoic acid (PFTriDA)	40.0	38.5		ng/L		96	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	40.0	38.7		ng/L		97	60 - 140
Perfluorobutanesulfonic acid (PFBS)	35.5	34.7		ng/L		98	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	37.6	33.5		ng/L		89	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	36.5	33.5		ng/L		92	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	38.2	31.1		ng/L		82	70 - 150
Perfluorooctanesulfonic acid (PFOS)	37.2	32.5		ng/L		87	55 - 150
Perfluorononanesulfonic acid (PFNS)	38.5	32.9		ng/L		85	65 - 145
Perfluorodecanesulfonic acid (PFDS)	38.6	29.0		ng/L		75	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	38.8	23.8		ng/L		61	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	75.0	75.4		ng/L		100	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	76.2	76.7		ng/L		101	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	76.8	73.1		ng/L		95	60 - 150
Perfluorooctanesulfonamide (PFOSA)	40.0	39.9		ng/L		100	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	40.0	40.9		ng/L		102	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	40.0	39.2		ng/L		98	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	41.3		ng/L		103	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	38.0		ng/L		95	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	200	187		ng/L		93	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	200	212		ng/L		106	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	30.0	28.9		ng/L		96	70 - 140

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-655611/8-A

Matrix: Water

Analysis Batch: 655485

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 655611

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	39.6		ng/L		105	65 - 145
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.0	37.9		ng/L		95	55 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA)	40.0	35.7		ng/L		89	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	40.0	38.7		ng/L		97	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	37.4	35.6		ng/L		95	70 - 155
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	37.8	33.5		ng/L		89	55 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	35.7	33.9		ng/L		95	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	80.0	76.0		ng/L		95	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	200	166		ng/L		83	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	200	142		ng/L		71	50 - 145

Isotope Dilution	%Recovery	LCS Qualifier	Limits
13C4-PFBA	104		5 - 130
13C5-PFPeA	83.0		40 - 130
13C5-PFHxA	79.4		40 - 130
13C4-PFHpA	77.4		40 - 130
13C8-PFOA	94.5		40 - 130
13C9-PFNA	87.5		40 - 130
13C6-PFDA	89.5		40 - 130
13C7-PFUnA	92.6		30 - 130
13C2-PFTeDA	66.1		10 - 130
13C3-PFBS	79.4		40 - 135
13C3-PFHxS	85.6		40 - 130
13C8-PFOS	79.3		40 - 130
13C8-PFOSA	61.5		40 - 130
d3-NMeFOSAA	68.5		40 - 170
d5-NEtFOSAA	68.2		25 - 135
13C2 4:2 FTS	89.6		40 - 200
13C2 6:2 FTS	84.1		40 - 200
13C2 8:2 FTS	86.6		40 - 300
13C3-HFPO-DA	73.6		40 - 130
D7-NMeFOSE	51.5		10 - 130
D9-NEtFOSE	45.9		10 - 130
d5-NEtPFOSA	46.3		10 - 130
d3-NMePFOSA	44.8		10 - 130
13C2 PFDaA	85.8		10 - 130

QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 410-655611/9-A

Matrix: Water

Analysis Batch: 655485

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 655611

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	8.00	7.23		ng/L		90	70 - 140
Perfluoropentanoic acid (PFPeA)	4.00	3.88		ng/L		97	65 - 135
Perfluorohexanoic acid (PFHxA)	4.00	3.84		ng/L		96	70 - 145
Perfluoroheptanoic acid (PFHpA)	4.00	4.17		ng/L		104	70 - 150
Perfluorooctanoic acid (PFOA)	4.00	3.82		ng/L		95	70 - 150
Perfluorononanoic acid (PFNA)	4.00	4.16		ng/L		104	70 - 150
Perfluorodecanoic acid (PFDA)	4.00	3.85		ng/L		96	70 - 140
Perfluoroundecanoic acid (PFUnA)	4.00	3.75		ng/L		94	70 - 145
Perfluorododecanoic acid (PFDoA)	4.00	3.06		ng/L		77	70 - 140
Perfluorotridecanoic acid (PFTTrDA)	4.00	3.50		ng/L		88	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	4.00	3.57		ng/L		89	60 - 140
Perfluorobutanesulfonic acid (PFBS)	3.55	3.42		ng/L		96	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	3.76	2.95		ng/L		79	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	3.65	3.96		ng/L		109	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	3.82	3.19		ng/L		83	70 - 150
Perfluorooctanesulfonic acid (PFOS)	3.72	3.69		ng/L		99	55 - 150
Perfluorononanesulfonic acid (PFNS)	3.85	3.59		ng/L		93	65 - 145
Perfluorodecanesulfonic acid (PFDS)	3.86	3.01		ng/L		78	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	3.88	2.70		ng/L		69	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	7.50	7.42		ng/L		99	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	7.62	7.15		ng/L		94	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	7.68	6.30		ng/L		82	60 - 150
Perfluorooctanesulfonamide (PFOSA)	4.00	3.80	I	ng/L		95	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	4.00	4.89		ng/L		122	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	4.00	4.20		ng/L		105	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.00	3.86		ng/L		96	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.00	3.53		ng/L		88	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	20.0	18.3		ng/L		92	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	20.0	22.0		ng/L		110	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	3.00	2.95		ng/L		98	70 - 140

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 410-655611/9-A

Matrix: Water

Analysis Batch: 655485

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 655611

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3.78	3.85		ng/L		102	65 - 145
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.00	3.98		ng/L		99	55 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.00	3.99		ng/L		100	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.00	3.20		ng/L		80	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	3.74	3.55		ng/L		95	70 - 155
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	3.78	2.77		ng/L		73	55 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	3.57	3.29		ng/L		92	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	8.00	8.67		ng/L		108	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	20.0	17.3		ng/L		87	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	20.0	12.1		ng/L		60	50 - 145

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	Limits
13C4-PFBA	106		5 - 130
13C5-PFPeA	88.7		40 - 130
13C5-PFHxA	90.4		40 - 130
13C4-PFHpA	89.6		40 - 130
13C8-PFOA	94.8		40 - 130
13C9-PFNA	84.1		40 - 130
13C6-PFDA	88.6		40 - 130
13C7-PFUnA	83.1		30 - 130
13C2-PFTeDA	74.1		10 - 130
13C3-PFBS	88.6		40 - 135
13C3-PFHxS	90.4		40 - 130
13C8-PFOS	81.7		40 - 130
13C8-PFOSA	72.9		40 - 130
d3-NMeFOSAA	89.0		40 - 170
d5-NEtFOSAA	78.1		25 - 135
13C2 4:2 FTS	96.3		40 - 200
13C2 6:2 FTS	102		40 - 200
13C2 8:2 FTS	97.8		40 - 300
13C3-HFPO-DA	83.9		40 - 130
D7-NMeFOSE	64.6		10 - 130
D9-NEtFOSE	58.5		10 - 130
d5-NEtPFOSA	52.7		10 - 130
d3-NMePFOSA	51.8		10 - 130
13C2 PFDaA	89.4		10 - 130

QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 480-747923/1-A

Matrix: Water

Analysis Batch: 748255

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747923

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		06/05/25 08:01	06/06/25 17:58	1
Antimony	ND		0.020	0.0068	mg/L		06/05/25 08:01	06/06/25 17:58	1
Barium	ND	^5-	0.0020	0.00070	mg/L		06/05/25 08:01	06/06/25 17:58	1
Beryllium	ND	^5-	0.0020	0.00030	mg/L		06/05/25 08:01	06/06/25 17:58	1
Cadmium	ND		0.0020	0.00050	mg/L		06/05/25 08:01	06/06/25 17:58	1
Calcium	ND		0.50	0.10	mg/L		06/05/25 08:01	06/06/25 17:58	1
Chromium	ND		0.0040	0.0010	mg/L		06/05/25 08:01	06/06/25 17:58	1
Cobalt	ND		0.0040	0.00063	mg/L		06/05/25 08:01	06/06/25 17:58	1
Copper	ND		0.010	0.0016	mg/L		06/05/25 08:01	06/06/25 17:58	1
Iron	ND		0.050	0.019	mg/L		06/05/25 08:01	06/06/25 17:58	1
Lead	ND		0.010	0.0030	mg/L		06/05/25 08:01	06/06/25 17:58	1
Magnesium	ND	^5-	0.20	0.043	mg/L		06/05/25 08:01	06/06/25 17:58	1
Manganese	0.000469	J ^5-	0.0030	0.00040	mg/L		06/05/25 08:01	06/06/25 17:58	1
Nickel	ND	^5-	0.010	0.0013	mg/L		06/05/25 08:01	06/06/25 17:58	1
Potassium	ND		0.50	0.10	mg/L		06/05/25 08:01	06/06/25 17:58	1
Silver	ND	^5-	0.0060	0.0017	mg/L		06/05/25 08:01	06/06/25 17:58	1
Sodium	ND		1.0	0.32	mg/L		06/05/25 08:01	06/06/25 17:58	1
Thallium	ND		0.020	0.010	mg/L		06/05/25 08:01	06/06/25 17:58	1
Vanadium	ND	^5-	0.0050	0.0015	mg/L		06/05/25 08:01	06/06/25 17:58	1
Zinc	ND	^5-	0.010	0.0015	mg/L		06/05/25 08:01	06/06/25 17:58	1

Lab Sample ID: LCS 480-747923/2-A

Matrix: Water

Analysis Batch: 748255

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747923

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5.10	4.89		mg/L		96	80 - 120
Antimony	0.500	0.492		mg/L		98	80 - 120
Barium	1.00	0.986	^5-	mg/L		99	80 - 120
Beryllium	0.496	0.526	^5-	mg/L		106	80 - 120
Cadmium	0.500	0.481		mg/L		96	80 - 120
Calcium	25.0	25.41		mg/L		102	80 - 120
Chromium	0.500	0.511		mg/L		102	80 - 120
Cobalt	0.500	0.487		mg/L		97	80 - 120
Copper	0.500	0.470		mg/L		94	80 - 120
Iron	5.10	5.70		mg/L		112	80 - 120
Lead	0.500	0.494		mg/L		99	80 - 120
Magnesium	25.0	23.48	^5-	mg/L		94	80 - 120
Manganese	0.500	0.502	^5-	mg/L		100	80 - 120
Nickel	0.500	0.520	^5-	mg/L		104	80 - 120
Potassium	25.0	24.34		mg/L		97	80 - 120
Silver	0.0500	0.0485	^5-	mg/L		97	80 - 120
Sodium	25.0	25.11		mg/L		100	80 - 120
Thallium	1.00	1.01		mg/L		101	80 - 120
Vanadium	0.500	0.502	^5-	mg/L		100	80 - 120
Zinc	0.500	0.488	^5-	mg/L		98	80 - 120

Eurofins Buffalo

QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 480-747924/1-A

Matrix: Water

Analysis Batch: 748094

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747924

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0010	0.00039	mg/L		06/05/25 07:44	06/05/25 17:15	1
Selenium	ND		0.0010	0.00044	mg/L		06/05/25 07:44	06/05/25 17:15	1

Lab Sample ID: LCS 480-747924/2-A

Matrix: Water

Analysis Batch: 748094

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747924

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.0400	0.0397		mg/L		99	80 - 120
Selenium	0.0400	0.0382		mg/L		95	80 - 120

Lab Sample ID: 480-229900-1 MS

Matrix: Water

Analysis Batch: 748094

Client Sample ID: RI-MW-3

Prep Type: Total/NA

Prep Batch: 747924

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.0015		0.0400	0.0453		mg/L		110	75 - 125
Selenium	0.0032		0.0400	0.0459		mg/L		107	75 - 125

Lab Sample ID: 480-229900-1 MSD

Matrix: Water

Analysis Batch: 748094

Client Sample ID: RI-MW-3

Prep Type: Total/NA

Prep Batch: 747924

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.0015		0.0400	0.0420		mg/L		101	75 - 125	8	20
Selenium	0.0032		0.0400	0.0440		mg/L		102	75 - 125	4	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-747966/1-A

Matrix: Water

Analysis Batch: 748005

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 747966

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		06/05/25 09:26	06/05/25 12:19	1

Lab Sample ID: LCS 480-747966/2-A

Matrix: Water

Analysis Batch: 748005

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 747966

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00669	0.00658		mg/L		98	80 - 120

QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 480-748224/21

Matrix: Water

Analysis Batch: 748224

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00730	J	0.010	0.0041	mg/L			06/08/25 16:18	1

Lab Sample ID: MB 480-748224/47

Matrix: Water

Analysis Batch: 748224

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00790	J	0.010	0.0041	mg/L			06/08/25 17:46	1

Lab Sample ID: HLCS 480-748224/22

Matrix: Water

Analysis Batch: 748224

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.392		mg/L		98	90 - 110

Lab Sample ID: LCS 480-748224/23

Matrix: Water

Analysis Batch: 748224

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.250		mg/L		100	90 - 110

Lab Sample ID: LCS 480-748224/48

Matrix: Water

Analysis Batch: 748224

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.242		mg/L		97	90 - 110

QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

GC/MS VOA

Analysis Batch: 747932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229900-1	RI-MW-3	Total/NA	Water	8260C	
480-229900-2	RI-MW-4	Total/NA	Water	8260C	
MB 480-747932/8	Method Blank	Total/NA	Water	8260C	
LCS 480-747932/6	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 748017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229900-1	RI-MW-3	Total/NA	Water	3510C	
480-229900-2	RI-MW-4	Total/NA	Water	3510C	
MB 480-748017/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-748017/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 748083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229900-1	RI-MW-3	Total/NA	Water	8270D SIM ID	748017
480-229900-2	RI-MW-4	Total/NA	Water	8270D SIM ID	748017
MB 480-748017/1-A	Method Blank	Total/NA	Water	8270D SIM ID	748017
LCS 480-748017/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	748017

Prep Batch: 748102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229900-1	RI-MW-3	Total/NA	Water	3510C	
480-229900-2	RI-MW-4	Total/NA	Water	3510C	
MB 480-748102/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-748102/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 748269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229900-1	RI-MW-3	Total/NA	Water	8270D	748102
480-229900-2	RI-MW-4	Total/NA	Water	8270D	748102
MB 480-748102/1-A	Method Blank	Total/NA	Water	8270D	748102
LCS 480-748102/2-A	Lab Control Sample	Total/NA	Water	8270D	748102

GC Semi VOA

Prep Batch: 748149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229900-1	RI-MW-3	Total/NA	Water	3510C	
480-229900-2	RI-MW-4	Total/NA	Water	3510C	
MB 480-748149/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-748149/2-A	Lab Control Sample	Total/NA	Water	3510C	

Prep Batch: 748243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229900-1	RI-MW-3	Total/NA	Water	3510C	
480-229900-2	RI-MW-4	Total/NA	Water	3510C	
MB 480-748243/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-748243/2-A	Lab Control Sample	Total/NA	Water	3510C	

QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

GC Semi VOA

Analysis Batch: 748247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229900-1	RI-MW-3	Total/NA	Water	8081B	748149
480-229900-2	RI-MW-4	Total/NA	Water	8081B	748149
MB 480-748149/1-A	Method Blank	Total/NA	Water	8081B	748149
LCS 480-748149/2-A	Lab Control Sample	Total/NA	Water	8081B	748149

Analysis Batch: 748352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229900-1	RI-MW-3	Total/NA	Water	8082A	748243
480-229900-2	RI-MW-4	Total/NA	Water	8082A	748243
MB 480-748243/1-A	Method Blank	Total/NA	Water	8082A	748243
LCS 480-748243/2-A	Lab Control Sample	Total/NA	Water	8082A	748243

LCMS

Prep Batch: 654431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229900-1	RI-MW-3	Total/NA	Water	1633	
480-229900-2	RI-MW-4	Total/NA	Water	1633	
MB 410-654431/1-A	Method Blank	Total/NA	Water	1633	
LCS 410-654431/2-A	Lab Control Sample	Total/NA	Water	1633	
LCSD 410-654431/3-A	Lab Control Sample Dup	Total/NA	Water	1633	
LLCS 410-654431/4-A	Lab Control Sample	Total/NA	Water	1633	

Analysis Batch: 654447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229900-1	RI-MW-3	Total/NA	Water	1633	654431
480-229900-2	RI-MW-4	Total/NA	Water	1633	654431
MB 410-654431/1-A	Method Blank	Total/NA	Water	1633	654431
LCS 410-654431/2-A	Lab Control Sample	Total/NA	Water	1633	654431
LCSD 410-654431/3-A	Lab Control Sample Dup	Total/NA	Water	1633	654431
LLCS 410-654431/4-A	Lab Control Sample	Total/NA	Water	1633	654431

Analysis Batch: 655485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229900-1 - RE	RI-MW-3	Total/NA	Water	1633	655611
480-229900-2 - RE	RI-MW-4	Total/NA	Water	1633	655611
MB 410-655611/7-A	Method Blank	Total/NA	Water	1633	655611
LCS 410-655611/8-A	Lab Control Sample	Total/NA	Water	1633	655611
LLCS 410-655611/9-A	Lab Control Sample	Total/NA	Water	1633	655611

Prep Batch: 655611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229900-1 - RE	RI-MW-3	Total/NA	Water	1633	
480-229900-2 - RE	RI-MW-4	Total/NA	Water	1633	
MB 410-655611/7-A	Method Blank	Total/NA	Water	1633	
LCS 410-655611/8-A	Lab Control Sample	Total/NA	Water	1633	
LLCS 410-655611/9-A	Lab Control Sample	Total/NA	Water	1633	

QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Metals

Prep Batch: 747923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229900-1	RI-MW-3	Total/NA	Water	3005A	
480-229900-2	RI-MW-4	Total/NA	Water	3005A	
MB 480-747923/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-747923/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 747924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229900-1	RI-MW-3	Total/NA	Water	3020A	
480-229900-2	RI-MW-4	Total/NA	Water	3020A	
MB 480-747924/1-A	Method Blank	Total/NA	Water	3020A	
LCS 480-747924/2-A	Lab Control Sample	Total/NA	Water	3020A	
480-229900-1 MS	RI-MW-3	Total/NA	Water	3020A	
480-229900-1 MSD	RI-MW-3	Total/NA	Water	3020A	

Prep Batch: 747966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229900-1	RI-MW-3	Total/NA	Water	7470A	
480-229900-2	RI-MW-4	Total/NA	Water	7470A	
MB 480-747966/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-747966/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 748005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229900-1	RI-MW-3	Total/NA	Water	7470A	747966
480-229900-2	RI-MW-4	Total/NA	Water	7470A	747966
MB 480-747966/1-A	Method Blank	Total/NA	Water	7470A	747966
LCS 480-747966/2-A	Lab Control Sample	Total/NA	Water	7470A	747966

Analysis Batch: 748094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229900-1	RI-MW-3	Total/NA	Water	6020B	747924
480-229900-2	RI-MW-4	Total/NA	Water	6020B	747924
MB 480-747924/1-A	Method Blank	Total/NA	Water	6020B	747924
LCS 480-747924/2-A	Lab Control Sample	Total/NA	Water	6020B	747924
480-229900-1 MS	RI-MW-3	Total/NA	Water	6020B	747924
480-229900-1 MSD	RI-MW-3	Total/NA	Water	6020B	747924

Analysis Batch: 748255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229900-1	RI-MW-3	Total/NA	Water	6010D	747923
480-229900-2	RI-MW-4	Total/NA	Water	6010D	747923
MB 480-747923/1-A	Method Blank	Total/NA	Water	6010D	747923
LCS 480-747923/2-A	Lab Control Sample	Total/NA	Water	6010D	747923

General Chemistry

Analysis Batch: 748224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-229900-1	RI-MW-3	Total/NA	Water	9012B	
480-229900-2	RI-MW-4	Total/NA	Water	9012B	
MB 480-748224/21	Method Blank	Total/NA	Water	9012B	

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QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

General Chemistry (Continued)

Analysis Batch: 748224 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-748224/47	Method Blank	Total/NA	Water	9012B	
HLCS 480-748224/22	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-748224/23	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-748224/48	Lab Control Sample	Total/NA	Water	9012B	

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Client Sample ID: RI-MW-3

Lab Sample ID: 480-229900-1

Date Collected: 06/03/25 10:00

Matrix: Water

Date Received: 06/03/25 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	747932	AXK	EET BUF	06/04/25 19:07
Total/NA	Prep	3510C			748102	JMP	EET BUF	06/06/25 09:15
Total/NA	Analysis	8270D		1	748269	JMM	EET BUF	06/09/25 17:13
Total/NA	Prep	3510C			748017	LSC	EET BUF	06/05/25 13:38
Total/NA	Analysis	8270D SIM ID		1	748083	JMM	EET BUF	06/06/25 13:10
Total/NA	Prep	3510C			748149	LSC	EET BUF	06/06/25 13:24
Total/NA	Analysis	8081B		1	748247	JLS	EET BUF	06/09/25 11:20
Total/NA	Prep	3510C			748243	JMP	EET BUF	06/09/25 08:25
Total/NA	Analysis	8082A		1	748352	MAN	EET BUF	06/10/25 11:38
Total/NA	Prep	1633			654431	M7AT	ELLE	06/07/25 12:34
Total/NA	Analysis	1633		1	654447	P7EB	ELLE	06/08/25 05:15
Total/NA	Prep	1633	RE		655611	MSH2	ELLE	06/10/25 14:39
Total/NA	Analysis	1633	RE	1	655485	LDU5	ELLE	06/11/25 05:52
Total/NA	Prep	3005A			747923	ESB	EET BUF	06/05/25 08:01
Total/NA	Analysis	6010D		1	748255	BMB	EET BUF	06/06/25 18:13
Total/NA	Prep	3020A			747924	ESB	EET BUF	06/05/25 07:44
Total/NA	Analysis	6020B		1	748094	BMB	EET BUF	06/05/25 17:21
Total/NA	Prep	7470A			747966	ESB	EET BUF	06/05/25 09:26
Total/NA	Analysis	7470A		1	748005	ESB	EET BUF	06/05/25 12:37
Total/NA	Analysis	9012B		1	748224	GW	EET BUF	06/08/25 17:19

Client Sample ID: RI-MW-4

Lab Sample ID: 480-229900-2

Date Collected: 06/03/25 08:30

Matrix: Water

Date Received: 06/03/25 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	747932	AXK	EET BUF	06/04/25 19:29
Total/NA	Prep	3510C			748102	JMP	EET BUF	06/06/25 09:15
Total/NA	Analysis	8270D		1	748269	JMM	EET BUF	06/09/25 17:40
Total/NA	Prep	3510C			748017	LSC	EET BUF	06/05/25 13:38
Total/NA	Analysis	8270D SIM ID		1	748083	JMM	EET BUF	06/06/25 13:31
Total/NA	Prep	3510C			748149	LSC	EET BUF	06/06/25 13:24
Total/NA	Analysis	8081B		1	748247	JLS	EET BUF	06/09/25 11:40
Total/NA	Prep	3510C			748243	JMP	EET BUF	06/09/25 08:25
Total/NA	Analysis	8082A		1	748352	MAN	EET BUF	06/10/25 11:56
Total/NA	Prep	1633			654431	M7AT	ELLE	06/07/25 12:34
Total/NA	Analysis	1633		1	654447	P7EB	ELLE	06/08/25 05:29
Total/NA	Prep	1633	RE		655611	MSH2	ELLE	06/10/25 14:39
Total/NA	Analysis	1633	RE	1	655485	LDU5	ELLE	06/11/25 06:06
Total/NA	Prep	3005A			747923	ESB	EET BUF	06/05/25 08:01
Total/NA	Analysis	6010D		1	748255	BMB	EET BUF	06/06/25 18:21
Total/NA	Prep	3020A			747924	ESB	EET BUF	06/05/25 07:44
Total/NA	Analysis	6020B		1	748094	BMB	EET BUF	06/05/25 17:35

Eurofins Buffalo

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Client Sample ID: RI-MW-4
Date Collected: 06/03/25 08:30
Date Received: 06/03/25 16:55

Lab Sample ID: 480-229900-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			747966	ESB	EET BUF	06/05/25 09:26
Total/NA	Analysis	7470A		1	748005	ESB	EET BUF	06/05/25 12:38
Total/NA	Analysis	9012B		1	748224	GW	EET BUF	06/08/25 17:22

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Laboratory: Eurofins Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-26

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
1633	1633	Water	3-Perfluoroheptylpropanoic acid (7:3 FTCA)
1633	1633	Water	3-Perfluoropentylpropanoic acid (5:3 FTCA)
1633	1633	Water	3-Perfluoropropylpropanoic acid (3:3 FTCA)
1633	1633	Water	N-ethylperfluorooctane sulfonamide (NEtFOSA)
1633	1633	Water	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)
1633	1633	Water	N-methylperfluorooctane sulfonamide (NMeFOSA)
1633	1633	Water	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)
1633	1633	Water	Perfluorodecanesulfonic acid (PFDS)
1633	1633	Water	Perfluorododecanesulfonic acid (PFDoS)
1633	1633	Water	Perfluorononanesulfonic acid (PFNS)
1633	1633	Water	Perfluorooctanesulfonamide (PFOSA)

Method Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET BUF
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	EET BUF
8081B	Organochlorine Pesticides (GC)	SW846	EET BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET BUF
1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	ELLE
6010D	Metals (ICP)	SW846	EET BUF
6020B	Metals (ICP/MS)	SW846	EET BUF
7470A	Mercury (CVAA)	SW846	EET BUF
9012B	Cyanide, Total and/or Amenable	SW846	EET BUF
1633	Solid-Phase Extraction (SPE)	EPA	ELLE
3005A	Preparation, Total Metals	SW846	EET BUF
3020A	Preparation, Total Metals	SW846	EET BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET BUF
5030C	Purge and Trap	SW846	EET BUF
7470A	Preparation, Mercury	SW846	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street

Job ID: 480-229900-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-229900-1	RI-MW-3	Water	06/03/25 10:00	06/03/25 16:55
480-229900-2	RI-MW-4	Water	06/03/25 08:30	06/03/25 16:55

- 1
- 2
- 3
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- 5
- 6
- 7
- 8
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- 11
- 12
- 13
- 14
- 15
- 16

Amherst, NY 14228-2223
phone 716.691.2600 fax 716.691.7991

[illegible]

13.8 12#SC1e

Custody Seals Intact:		☐ Yes ☐ No		Custody Seal No.:	Therm ID No.:
Relinquished by:	<i>J. Hull</i>	Company:	<i>BE3</i>	Received by:	Date/Time:
Relinquished by:		Company:		Received by:	Date/Time:
Relinquished by:		Company:		Received in Laboratory by:	Date/Time:

6/11/2025

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-229900-1

Login Number: 229900

List Source: Eurofins Buffalo

List Number: 1

Creator: Yeager, Brian A

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	13.8 ICE IR# SC
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BE3
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-229900-1

Login Number: 229900

List Number: 2

Creator: Wrye, Shaun

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Creation: 06/05/25 11:54 AM

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Paul Staub
Brydges Engineering in Environment & Energy DPC
960 Busti Ave
Suite B-150
Buffalo, New York 14213

Generated 6/10/2025 4:57:15 PM

JOB DESCRIPTION

166 E 4th Street, Dunkirk, NY

JOB NUMBER

200-78231-1

Eurofins Burlington

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



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Authorized for release by
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Definitions/Glossary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Brydges Engineering in Environment & Energy DPC
Project: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Job ID: 200-78231-1

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Job Narrative 200-78231-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 6/2/2025 10:00 AM. Unless otherwise noted below, the samples arrived in good condition.

Receipt Exceptions

During the canister pressure check performed upon receipt, it was observed that the following samples were received at an elevated residual vacuum level: RI-VP-1 (200-78231-1), RI-VP-3 (200-78231-3) and RI-VP-6 (200-78231-6). The associated flow controllers were evaluated upon receipt and were found to be within the acceptable flow range as compared to the original set flow rate. No significant effect on data is expected.

The residual vacuum for sample "RI-VP-1" (200-78231-1) was above the working range. Clean nitrogen was added to the canister to bring the pressure into range. Additional sample volume was used in order to minimize increases to the sample reporting limits (RLs).

The residual vacuums for samples "RI-VP-3" (200-78231-3) and RI-VP-6 (200-78231-6) were above the working range. Clean nitrogen was added to the canisters to bring the pressures into range. Additional sample volume was used but the sample reporting limits (RLs) still had a minimal increase.

During the canister pressure check performed upon receipt, the following sample was found to be received at ambient pressure: RI-VP-2 (200-78231-2). The associated flow controller was evaluated and was found to be outside the acceptable flow range as compared to the original set flow rate. No significant effect on data is expected.

Air - GC/MS VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-1

Lab Sample ID: 200-78231-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Butane	59		49	30	ug/m3	41.2		TO-15	Total/NA
Acetone	7300	E	490	190	ug/m3	41.2		TO-15	Total/NA
Carbon disulfide	24	J B	64	23	ug/m3	41.2		TO-15	Total/NA
n-Hexane	44	J	73	23	ug/m3	41.2		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	190		61	17	ug/m3	41.2		TO-15	Total/NA
n-Heptane	48		34	15	ug/m3	41.2		TO-15	Total/NA
m,p-Xylene	3.0	J	89	2.5	ug/m3	41.2		TO-15	Total/NA
Acetone - DL	16000	D	2200	850	ug/m3	189		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone) - DL	290	D	280	78	ug/m3	189		TO-15	Total/NA
n-Heptane - DL	99	J D	150	67	ug/m3	189		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Butane	25		21	13	ppb v/v	41.2		TO-15	Total/NA
Acetone	3100	E	210	78	ppb v/v	41.2		TO-15	Total/NA
Carbon disulfide	7.8	J B	21	7.4	ppb v/v	41.2		TO-15	Total/NA
n-Hexane	12	J	21	6.6	ppb v/v	41.2		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	64		21	5.8	ppb v/v	41.2		TO-15	Total/NA
n-Heptane	12		8.2	3.5	ppb v/v	41.2		TO-15	Total/NA
m,p-Xylene	0.68	J	21	0.58	ppb v/v	41.2		TO-15	Total/NA
Acetone - DL	6600	D	950	360	ppb v/v	189		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone) - DL	99	D	95	26	ppb v/v	189		TO-15	Total/NA
n-Heptane - DL	24	J D	38	16	ppb v/v	189		TO-15	Total/NA

Client Sample ID: RI-VP-2

Lab Sample ID: 200-78231-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	2.8		2.5	1.1	ug/m3	1		TO-15	Total/NA
Chlorodifluoromethane	1.7	J	1.8	1.3	ug/m3	1		TO-15	Total/NA
Chloromethane	1.7		1.0	0.68	ug/m3	1		TO-15	Total/NA
n-Butane	3.0		1.2	0.74	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.5		1.1	0.43	ug/m3	1		TO-15	Total/NA
1,1,2-Trichlorotrifluoroethane	0.53	J	1.5	0.44	ug/m3	1		TO-15	Total/NA
Acetone	200	E	12	4.5	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	31		12	5.4	ug/m3	1		TO-15	Total/NA
Carbon disulfide	0.81	J B	1.6	0.56	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	37		1.5	0.41	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.28	J	0.69	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.47		0.22	0.15	ug/m3	1		TO-15	Total/NA
Benzene	0.28	J	0.64	0.16	ug/m3	1		TO-15	Total/NA
n-Heptane	8.4		0.82	0.35	ug/m3	1		TO-15	Total/NA
Methyl methacrylate	2.3		2.0	0.53	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (Methyl isobutyl ketone)	3.5		2.0	0.78	ug/m3	1		TO-15	Total/NA
Toluene	2.1		0.75	0.20	ug/m3	1		TO-15	Total/NA
Methyl Butyl Ketone (2-Hexanone)	6.7		2.0	0.82	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.57	J	0.87	0.22	ug/m3	1		TO-15	Total/NA
m,p-Xylene	2.6		2.2	0.061	ug/m3	1		TO-15	Total/NA
o-Xylene	0.89		0.87	0.30	ug/m3	1		TO-15	Total/NA
n-Propylbenzene	0.45	J	0.98	0.30	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.75	J	0.98	0.33	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.80	J	0.98	0.33	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	6.6		0.98	0.40	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Burlington

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-2 (Continued)

Lab Sample ID: 200-78231-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4-Isopropyltoluene	26		1.1	0.43	ug/m3	1		TO-15	Total/NA
1,4-Dichlorobenzene	8.5		1.2	0.42	ug/m3	1		TO-15	Total/NA
Naphthalene	2.8		2.0	0.58	ug/m3	1		TO-15	Total/NA
Acetone - DL	180	D	120	45	ug/m3	10		TO-15	Total/NA
Carbon disulfide - DL	6.5	J B D	16	5.6	ug/m3	10		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone) - DL	32	D	15	4.1	ug/m3	10		TO-15	Total/NA
m,p-Xylene - DL	1.9	J D	22	0.61	ug/m3	10		TO-15	Total/NA
1,2,4-Trimethylbenzene - DL	4.1	J D	9.8	4.0	ug/m3	10		TO-15	Total/NA
4-Isopropyltoluene - DL	17	D	11	4.3	ug/m3	10		TO-15	Total/NA
1,4-Dichlorobenzene - DL	6.6	J D	12	4.2	ug/m3	10		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.57		0.50	0.22	ppb v/v	1		TO-15	Total/NA
Chlorodifluoromethane	0.48	J	0.50	0.36	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.81		0.50	0.33	ppb v/v	1		TO-15	Total/NA
n-Butane	1.3		0.50	0.31	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.26		0.20	0.077	ppb v/v	1		TO-15	Total/NA
1,1,2-Trichlorotrifluoroethane	0.069	J	0.20	0.057	ppb v/v	1		TO-15	Total/NA
Acetone	82	E	5.0	1.9	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	13		5.0	2.2	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.26	J B	0.50	0.18	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	13		0.50	0.14	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.082	J	0.20	0.052	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.075		0.035	0.024	ppb v/v	1		TO-15	Total/NA
Benzene	0.089	J	0.20	0.051	ppb v/v	1		TO-15	Total/NA
n-Heptane	2.1		0.20	0.086	ppb v/v	1		TO-15	Total/NA
Methyl methacrylate	0.56		0.50	0.13	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (Methyl isobutyl ketone)	0.86		0.50	0.19	ppb v/v	1		TO-15	Total/NA
Toluene	0.56		0.20	0.054	ppb v/v	1		TO-15	Total/NA
Methyl Butyl Ketone (2-Hexanone)	1.6		0.50	0.20	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.13	J	0.20	0.051	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	0.59		0.50	0.014	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.21		0.20	0.069	ppb v/v	1		TO-15	Total/NA
n-Propylbenzene	0.092	J	0.20	0.062	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.15	J	0.20	0.068	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.16	J	0.20	0.068	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	1.3		0.20	0.082	ppb v/v	1		TO-15	Total/NA
4-Isopropyltoluene	4.8		0.20	0.078	ppb v/v	1		TO-15	Total/NA
1,4-Dichlorobenzene	1.4		0.20	0.070	ppb v/v	1		TO-15	Total/NA
Naphthalene	0.53		0.38	0.11	ppb v/v	1		TO-15	Total/NA
Acetone - DL	74	D	50	19	ppb v/v	10		TO-15	Total/NA
Carbon disulfide - DL	2.1	J B D	5.0	1.8	ppb v/v	10		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone) - DL	11	D	5.0	1.4	ppb v/v	10		TO-15	Total/NA
m,p-Xylene - DL	0.44	J D	5.0	0.14	ppb v/v	10		TO-15	Total/NA
1,2,4-Trimethylbenzene - DL	0.84	J D	2.0	0.82	ppb v/v	10		TO-15	Total/NA
4-Isopropyltoluene - DL	3.1	D	2.0	0.78	ppb v/v	10		TO-15	Total/NA
1,4-Dichlorobenzene - DL	1.1	J D	2.0	0.70	ppb v/v	10		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Burlington

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-3

Lab Sample ID: 200-78231-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Butane	13		12	7.4	ug/m3	10		TO-15	Total/NA
Acetone	2100	E	120	45	ug/m3	10		TO-15	Total/NA
Carbon disulfide	12	J B	16	5.6	ug/m3	10		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	16		15	4.1	ug/m3	10		TO-15	Total/NA
Cyclohexane	4.3	J	6.9	1.8	ug/m3	10		TO-15	Total/NA
2,2,4-Trimethylpentane	8.4	J	9.3	3.3	ug/m3	10		TO-15	Total/NA
Trichloroethene	2.9		2.0	1.6	ug/m3	10		TO-15	Total/NA
Toluene	4.6	J	7.5	2.0	ug/m3	10		TO-15	Total/NA
Acetone - DL	1700	D	480	180	ug/m3	40.4		TO-15	Total/NA
Carbon disulfide - DL	25	J B D	63	23	ug/m3	40.4		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Butane	5.4		5.0	3.1	ppb v/v	10		TO-15	Total/NA
Acetone	870	E	50	19	ppb v/v	10		TO-15	Total/NA
Carbon disulfide	3.8	J B	5.0	1.8	ppb v/v	10		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	5.5		5.0	1.4	ppb v/v	10		TO-15	Total/NA
Cyclohexane	1.3	J	2.0	0.52	ppb v/v	10		TO-15	Total/NA
2,2,4-Trimethylpentane	1.8	J	2.0	0.71	ppb v/v	10		TO-15	Total/NA
Trichloroethene	0.55		0.37	0.29	ppb v/v	10		TO-15	Total/NA
Toluene	1.2	J	2.0	0.54	ppb v/v	10		TO-15	Total/NA
Acetone - DL	710	D	200	77	ppb v/v	40.4		TO-15	Total/NA
Carbon disulfide - DL	8.1	J B D	20	7.3	ppb v/v	40.4		TO-15	Total/NA

Client Sample ID: RI-VP-4

Lab Sample ID: 200-78231-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	2.6		2.5	1.1	ug/m3	1		TO-15	Total/NA
Chloromethane	1.7		1.0	0.68	ug/m3	1		TO-15	Total/NA
n-Butane	9.6		1.2	0.74	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.4		1.1	0.43	ug/m3	1		TO-15	Total/NA
1,1,2-Trichlorotrifluoroethane	0.54	J	1.5	0.44	ug/m3	1		TO-15	Total/NA
Acetone	840	E	12	4.5	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	10	J	12	5.4	ug/m3	1		TO-15	Total/NA
Carbon disulfide	4.2	B	1.6	0.56	ug/m3	1		TO-15	Total/NA
n-Hexane	0.89	J	1.8	0.56	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	45		1.5	0.41	ug/m3	1		TO-15	Total/NA
Cyclohexane	1.3		0.69	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.46		0.22	0.15	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	1.8		0.93	0.33	ug/m3	1		TO-15	Total/NA
Benzene	0.47	J	0.64	0.16	ug/m3	1		TO-15	Total/NA
n-Heptane	2.0		0.82	0.35	ug/m3	1		TO-15	Total/NA
Trichloroethene	2.7		0.20	0.16	ug/m3	1		TO-15	Total/NA
Toluene	5.6		0.75	0.20	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.93	J	1.4	0.24	ug/m3	1		TO-15	Total/NA
Methyl Butyl Ketone (2-Hexanone)	4.3		2.0	0.82	ug/m3	1		TO-15	Total/NA
Ethylbenzene	3.2		0.87	0.22	ug/m3	1		TO-15	Total/NA
m,p-Xylene	8.3		2.2	0.061	ug/m3	1		TO-15	Total/NA
o-Xylene	3.8		0.87	0.30	ug/m3	1		TO-15	Total/NA
Cumene	0.88	J	0.98	0.35	ug/m3	1		TO-15	Total/NA
n-Propylbenzene	2.0		0.98	0.30	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	2.6		0.98	0.33	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	2.1		0.98	0.33	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Burlington

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-4 (Continued)

Lab Sample ID: 200-78231-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	8.1		0.98	0.40	ug/m3	1		TO-15	Total/NA
sec-Butylbenzene	0.69	J	1.1	0.40	ug/m3	1		TO-15	Total/NA
4-Isopropyltoluene	0.54	J	1.1	0.43	ug/m3	1		TO-15	Total/NA
n-Butylbenzene	1.2		1.1	0.38	ug/m3	1		TO-15	Total/NA
n-Butane - DL	11	J D	12	7.4	ug/m3	10		TO-15	Total/NA
Acetone - DL	730	D	120	45	ug/m3	10		TO-15	Total/NA
Carbon disulfide - DL	10	J B D	16	5.6	ug/m3	10		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone) - DL	33	D	15	4.1	ug/m3	10		TO-15	Total/NA
Trichloroethene - DL	2.3	D	2.0	1.6	ug/m3	10		TO-15	Total/NA
Toluene - DL	4.9	J D	7.5	2.0	ug/m3	10		TO-15	Total/NA
Ethylbenzene - DL	2.5	J D	8.7	2.2	ug/m3	10		TO-15	Total/NA
m,p-Xylene - DL	5.7	J D	22	0.61	ug/m3	10		TO-15	Total/NA
1,2,4-Trimethylbenzene - DL	4.9	J D	9.8	4.0	ug/m3	10		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.53		0.50	0.22	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.83		0.50	0.33	ppb v/v	1		TO-15	Total/NA
n-Butane	4.1		0.50	0.31	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.25		0.20	0.077	ppb v/v	1		TO-15	Total/NA
1,1,2-Trichlorotrifluoroethane	0.070	J	0.20	0.057	ppb v/v	1		TO-15	Total/NA
Acetone	350	E	5.0	1.9	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	4.1	J	5.0	2.2	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	1.3	B	0.50	0.18	ppb v/v	1		TO-15	Total/NA
n-Hexane	0.25	J	0.50	0.16	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	15		0.50	0.14	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.37		0.20	0.052	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.073		0.035	0.024	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.39		0.20	0.071	ppb v/v	1		TO-15	Total/NA
Benzene	0.15	J	0.20	0.051	ppb v/v	1		TO-15	Total/NA
n-Heptane	0.49		0.20	0.086	ppb v/v	1		TO-15	Total/NA
Trichloroethene	0.51		0.037	0.029	ppb v/v	1		TO-15	Total/NA
Toluene	1.5		0.20	0.054	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.14	J	0.20	0.036	ppb v/v	1		TO-15	Total/NA
Methyl Butyl Ketone (2-Hexanone)	1.0		0.50	0.20	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.73		0.20	0.051	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	1.9		0.50	0.014	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.87		0.20	0.069	ppb v/v	1		TO-15	Total/NA
Cumene	0.18	J	0.20	0.072	ppb v/v	1		TO-15	Total/NA
n-Propylbenzene	0.41		0.20	0.062	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.53		0.20	0.068	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.42		0.20	0.068	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	1.7		0.20	0.082	ppb v/v	1		TO-15	Total/NA
sec-Butylbenzene	0.13	J	0.20	0.072	ppb v/v	1		TO-15	Total/NA
4-Isopropyltoluene	0.098	J	0.20	0.078	ppb v/v	1		TO-15	Total/NA
n-Butylbenzene	0.21		0.20	0.070	ppb v/v	1		TO-15	Total/NA
n-Butane - DL	4.4	J D	5.0	3.1	ppb v/v	10		TO-15	Total/NA
Acetone - DL	310	D	50	19	ppb v/v	10		TO-15	Total/NA
Carbon disulfide - DL	3.2	J B D	5.0	1.8	ppb v/v	10		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone) - DL	11	D	5.0	1.4	ppb v/v	10		TO-15	Total/NA
Trichloroethene - DL	0.43	D	0.37	0.29	ppb v/v	10		TO-15	Total/NA
Toluene - DL	1.3	J D	2.0	0.54	ppb v/v	10		TO-15	Total/NA
Ethylbenzene - DL	0.59	J D	2.0	0.51	ppb v/v	10		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Burlington

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-4 (Continued)

Lab Sample ID: 200-78231-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m,p-Xylene - DL	1.3	J D	5.0	0.14	ppb v/v	10		TO-15	Total/NA
1,2,4-Trimethylbenzene - DL	1.0	J D	2.0	0.82	ppb v/v	10		TO-15	Total/NA

Client Sample ID: RI-VP-5

Lab Sample ID: 200-78231-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	19	J	25	11	ug/m3	10		TO-15	Total/NA
n-Butane	250		12	7.4	ug/m3	10		TO-15	Total/NA
Acetone	1700	E	120	45	ug/m3	10		TO-15	Total/NA
Carbon disulfide	170	B	16	5.6	ug/m3	10		TO-15	Total/NA
n-Hexane	250		18	5.6	ug/m3	10		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	61		15	4.1	ug/m3	10		TO-15	Total/NA
Cyclohexane	530		6.9	1.8	ug/m3	10		TO-15	Total/NA
Benzene	6.6		6.4	1.6	ug/m3	10		TO-15	Total/NA
n-Heptane	4500	E	8.2	3.5	ug/m3	10		TO-15	Total/NA
Trichloroethene	5.4		2.0	1.6	ug/m3	10		TO-15	Total/NA
Toluene	78		7.5	2.0	ug/m3	10		TO-15	Total/NA
Tetrachloroethene	40		14	2.4	ug/m3	10		TO-15	Total/NA
Methyl Butyl Ketone (2-Hexanone)	11	J	20	8.2	ug/m3	10		TO-15	Total/NA
Ethylbenzene	47		8.7	2.2	ug/m3	10		TO-15	Total/NA
m,p-Xylene	110		22	0.61	ug/m3	10		TO-15	Total/NA
o-Xylene	49		8.7	3.0	ug/m3	10		TO-15	Total/NA
Cumene	13		9.8	3.5	ug/m3	10		TO-15	Total/NA
n-Propylbenzene	23		9.8	3.0	ug/m3	10		TO-15	Total/NA
4-Ethyltoluene	28		9.8	3.3	ug/m3	10		TO-15	Total/NA
1,3,5-Trimethylbenzene	22		9.8	3.3	ug/m3	10		TO-15	Total/NA
1,2,4-Trimethylbenzene	55		9.8	4.0	ug/m3	10		TO-15	Total/NA
sec-Butylbenzene	8.0	J	11	4.0	ug/m3	10		TO-15	Total/NA
4-Isopropyltoluene	8.1	J	11	4.3	ug/m3	10		TO-15	Total/NA
n-Butylbenzene	5.9	J	11	3.8	ug/m3	10		TO-15	Total/NA
n-Butane - DL	330	D	110	69	ug/m3	94.2		TO-15	Total/NA
Acetone - DL	3200	D	1100	430	ug/m3	94.2		TO-15	Total/NA
Carbon disulfide - DL	230	D	150	53	ug/m3	94.2		TO-15	Total/NA
n-Hexane - DL	360	D	170	53	ug/m3	94.2		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone) - DL	73	J D	140	39	ug/m3	94.2		TO-15	Total/NA
Cyclohexane - DL	680	D	65	17	ug/m3	94.2		TO-15	Total/NA
n-Heptane - DL	12000	D	77	33	ug/m3	94.2		TO-15	Total/NA
Toluene - DL	87	D	71	19	ug/m3	94.2		TO-15	Total/NA
1,1,2-Trichloroethane - DL	42	J D	100	27	ug/m3	94.2		TO-15	Total/NA
Tetrachloroethene - DL	39	J D	130	23	ug/m3	94.2		TO-15	Total/NA
Ethylbenzene - DL	55	J D	82	21	ug/m3	94.2		TO-15	Total/NA
m,p-Xylene - DL	120	J D	200	5.7	ug/m3	94.2		TO-15	Total/NA
o-Xylene - DL	49	J D	82	28	ug/m3	94.2		TO-15	Total/NA
1,2,4-Trimethylbenzene - DL	51	J D	93	38	ug/m3	94.2		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	3.8	J	5.0	2.2	ppb v/v	10		TO-15	Total/NA
n-Butane	100		5.0	3.1	ppb v/v	10		TO-15	Total/NA
Acetone	720	E	50	19	ppb v/v	10		TO-15	Total/NA
Carbon disulfide	56	B	5.0	1.8	ppb v/v	10		TO-15	Total/NA
n-Hexane	70		5.0	1.6	ppb v/v	10		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	21		5.0	1.4	ppb v/v	10		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Burlington

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-5 (Continued)

Lab Sample ID: 200-78231-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyclohexane	150		2.0	0.52	ppb v/v	10		TO-15	Total/NA
Benzene	2.1		2.0	0.51	ppb v/v	10		TO-15	Total/NA
n-Heptane	1100	E	2.0	0.86	ppb v/v	10		TO-15	Total/NA
Trichloroethene	1.0		0.37	0.29	ppb v/v	10		TO-15	Total/NA
Toluene	21		2.0	0.54	ppb v/v	10		TO-15	Total/NA
Tetrachloroethene	5.9		2.0	0.36	ppb v/v	10		TO-15	Total/NA
Methyl Butyl Ketone (2-Hexanone)	2.7	J	5.0	2.0	ppb v/v	10		TO-15	Total/NA
Ethylbenzene	11		2.0	0.51	ppb v/v	10		TO-15	Total/NA
m,p-Xylene	25		5.0	0.14	ppb v/v	10		TO-15	Total/NA
o-Xylene	11		2.0	0.69	ppb v/v	10		TO-15	Total/NA
Cumene	2.7		2.0	0.72	ppb v/v	10		TO-15	Total/NA
n-Propylbenzene	4.7		2.0	0.62	ppb v/v	10		TO-15	Total/NA
4-Ethyltoluene	5.7		2.0	0.68	ppb v/v	10		TO-15	Total/NA
1,3,5-Trimethylbenzene	4.5		2.0	0.68	ppb v/v	10		TO-15	Total/NA
1,2,4-Trimethylbenzene	11		2.0	0.82	ppb v/v	10		TO-15	Total/NA
sec-Butylbenzene	1.5	J	2.0	0.72	ppb v/v	10		TO-15	Total/NA
4-Isopropyltoluene	1.5	J	2.0	0.78	ppb v/v	10		TO-15	Total/NA
n-Butylbenzene	1.1	J	2.0	0.70	ppb v/v	10		TO-15	Total/NA
n-Butane - DL	140	D	47	29	ppb v/v	94.2		TO-15	Total/NA
Acetone - DL	1300	D	470	180	ppb v/v	94.2		TO-15	Total/NA
Carbon disulfide - DL	74	D	47	17	ppb v/v	94.2		TO-15	Total/NA
n-Hexane - DL	100	D	47	15	ppb v/v	94.2		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone) - DL	25	J D	47	13	ppb v/v	94.2		TO-15	Total/NA
Cyclohexane - DL	200	D	19	4.9	ppb v/v	94.2		TO-15	Total/NA
n-Heptane - DL	2800	D	19	8.1	ppb v/v	94.2		TO-15	Total/NA
Toluene - DL	23	D	19	5.1	ppb v/v	94.2		TO-15	Total/NA
1,1,2-Trichloroethane - DL	7.7	J D	19	5.0	ppb v/v	94.2		TO-15	Total/NA
Tetrachloroethene - DL	5.7	J D	19	3.4	ppb v/v	94.2		TO-15	Total/NA
Ethylbenzene - DL	13	J D	19	4.8	ppb v/v	94.2		TO-15	Total/NA
m,p-Xylene - DL	27	J D	47	1.3	ppb v/v	94.2		TO-15	Total/NA
o-Xylene - DL	11	J D	19	6.5	ppb v/v	94.2		TO-15	Total/NA
1,2,4-Trimethylbenzene - DL	10	J D	19	7.7	ppb v/v	94.2		TO-15	Total/NA

Client Sample ID: RI-VP-6

Lab Sample ID: 200-78231-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Butane	200		12	7.4	ug/m3	10		TO-15	Total/NA
Acetone	4900	E	120	45	ug/m3	10		TO-15	Total/NA
Isopropyl alcohol	83	J	120	54	ug/m3	10		TO-15	Total/NA
Carbon disulfide	7.4	J B	16	5.6	ug/m3	10		TO-15	Total/NA
n-Hexane	44		18	5.6	ug/m3	10		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	150		15	4.1	ug/m3	10		TO-15	Total/NA
Cyclohexane	21		6.9	1.8	ug/m3	10		TO-15	Total/NA
2,2,4-Trimethylpentane	10		9.3	3.3	ug/m3	10		TO-15	Total/NA
n-Heptane	37		8.2	3.5	ug/m3	10		TO-15	Total/NA
Toluene	17		7.5	2.0	ug/m3	10		TO-15	Total/NA
Tetrachloroethene	3.1	J	14	2.4	ug/m3	10		TO-15	Total/NA
Methyl Butyl Ketone (2-Hexanone)	14	J	20	8.2	ug/m3	10		TO-15	Total/NA
Ethylbenzene	8.5	J	8.7	2.2	ug/m3	10		TO-15	Total/NA
m,p-Xylene	22		22	0.61	ug/m3	10		TO-15	Total/NA
o-Xylene	10		8.7	3.0	ug/m3	10		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Burlington

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-6 (Continued)

Lab Sample ID: 200-78231-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Propylbenzene	5.1	J	9.8	3.0	ug/m3	10		TO-15	Total/NA
4-Ethyltoluene	6.7	J	9.8	3.3	ug/m3	10		TO-15	Total/NA
1,3,5-Trimethylbenzene	5.3	J	9.8	3.3	ug/m3	10		TO-15	Total/NA
1,2,4-Trimethylbenzene	19		9.8	4.0	ug/m3	10		TO-15	Total/NA
n-Butane - DL	140	D	130	80	ug/m3	108		TO-15	Total/NA
Acetone - DL	1700	D	1300	490	ug/m3	108		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone) - DL	51	J D	160	45	ug/m3	108		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Butane	84		5.0	3.1	ppb v/v	10		TO-15	Total/NA
Acetone	2000	E	50	19	ppb v/v	10		TO-15	Total/NA
Isopropyl alcohol	34	J	50	22	ppb v/v	10		TO-15	Total/NA
Carbon disulfide	2.4	J B	5.0	1.8	ppb v/v	10		TO-15	Total/NA
n-Hexane	12		5.0	1.6	ppb v/v	10		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	52		5.0	1.4	ppb v/v	10		TO-15	Total/NA
Cyclohexane	6.1		2.0	0.52	ppb v/v	10		TO-15	Total/NA
2,2,4-Trimethylpentane	2.2		2.0	0.71	ppb v/v	10		TO-15	Total/NA
n-Heptane	9.1		2.0	0.86	ppb v/v	10		TO-15	Total/NA
Toluene	4.5		2.0	0.54	ppb v/v	10		TO-15	Total/NA
Tetrachloroethene	0.46	J	2.0	0.36	ppb v/v	10		TO-15	Total/NA
Methyl Butyl Ketone (2-Hexanone)	3.4	J	5.0	2.0	ppb v/v	10		TO-15	Total/NA
Ethylbenzene	2.0	J	2.0	0.51	ppb v/v	10		TO-15	Total/NA
m,p-Xylene	5.0		5.0	0.14	ppb v/v	10		TO-15	Total/NA
o-Xylene	2.3		2.0	0.69	ppb v/v	10		TO-15	Total/NA
n-Propylbenzene	1.0	J	2.0	0.62	ppb v/v	10		TO-15	Total/NA
4-Ethyltoluene	1.4	J	2.0	0.68	ppb v/v	10		TO-15	Total/NA
1,3,5-Trimethylbenzene	1.1	J	2.0	0.68	ppb v/v	10		TO-15	Total/NA
1,2,4-Trimethylbenzene	3.8		2.0	0.82	ppb v/v	10		TO-15	Total/NA
n-Butane - DL	60	D	54	33	ppb v/v	108		TO-15	Total/NA
Acetone - DL	710	D	540	210	ppb v/v	108		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone) - DL	17	J D	54	15	ppb v/v	108		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Burlington

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-1

Lab Sample ID: 200-78231-1

Date Collected: 05/30/25 11:53

Matrix: Air

Date Received: 06/02/25 10:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	100	U	100	45	ug/m3			06/06/25 01:27	41.2
Chlorodifluoromethane	73	U	73	52	ug/m3			06/06/25 01:27	41.2
1,2-Dichlorotetrafluoroethane	58	U	58	22	ug/m3			06/06/25 01:27	41.2
Chloromethane	43	U	43	28	ug/m3			06/06/25 01:27	41.2
n-Butane	59		49	30	ug/m3			06/06/25 01:27	41.2
Vinyl chloride	8.2	U	8.2	3.1	ug/m3			06/06/25 01:27	41.2
1,3-Butadiene	18	U	18	3.6	ug/m3			06/06/25 01:27	41.2
Bromomethane	32	U	32	9.9	ug/m3			06/06/25 01:27	41.2
Chloroethane	54	U	54	17	ug/m3			06/06/25 01:27	41.2
Bromoethene(Vinyl Bromide)	36	U	36	8.7	ug/m3			06/06/25 01:27	41.2
Trichlorofluoromethane	46	U	46	18	ug/m3			06/06/25 01:27	41.2
1,1,2-Trichlorotrifluoroethane	63	U	63	18	ug/m3			06/06/25 01:27	41.2
1,1-Dichloroethene	8.2	U	8.2	5.7	ug/m3			06/06/25 01:27	41.2
Acetone	7300	E	490	190	ug/m3			06/06/25 01:27	41.2
Isopropyl alcohol	510	U	510	220	ug/m3			06/06/25 01:27	41.2
Carbon disulfide	24	J B	64	23	ug/m3			06/06/25 01:27	41.2
3-Chloropropene	64	U	64	10	ug/m3			06/06/25 01:27	41.2
Methylene Chloride	72	U	72	27	ug/m3			06/06/25 01:27	41.2
tert-Butyl alcohol	620	U	620	200	ug/m3			06/06/25 01:27	41.2
Methyl tert-butyl ether	30	U	30	9.8	ug/m3			06/06/25 01:27	41.2
trans-1,2-Dichloroethene	33	U	33	3.3	ug/m3			06/06/25 01:27	41.2
n-Hexane	44	J	73	23	ug/m3			06/06/25 01:27	41.2
1,1-Dichloroethane	33	U	33	3.0	ug/m3			06/06/25 01:27	41.2
Methyl Ethyl Ketone (2-Butanone)	190		61	17	ug/m3			06/06/25 01:27	41.2
cis-1,2-Dichloroethene	8.2	U	8.2	5.2	ug/m3			06/06/25 01:27	41.2
Chloroform	40	U	40	12	ug/m3			06/06/25 01:27	41.2
Tetrahydrofuran	610	U	610	210	ug/m3			06/06/25 01:27	41.2
1,1,1-Trichloroethane	45	U	45	16	ug/m3			06/06/25 01:27	41.2
Cyclohexane	28	U	28	7.4	ug/m3			06/06/25 01:27	41.2
Carbon tetrachloride	9.1	U	9.1	6.2	ug/m3			06/06/25 01:27	41.2
2,2,4-Trimethylpentane	38	U	38	14	ug/m3			06/06/25 01:27	41.2
Benzene	26	U	26	6.7	ug/m3			06/06/25 01:27	41.2
1,2-Dichloroethane	33	U	33	12	ug/m3			06/06/25 01:27	41.2
n-Heptane	48		34	15	ug/m3			06/06/25 01:27	41.2
Trichloroethene	8.2	U	8.2	6.4	ug/m3			06/06/25 01:27	41.2
Methyl methacrylate	84	U	84	22	ug/m3			06/06/25 01:27	41.2
1,2-Dichloropropane	38	U	38	10	ug/m3			06/06/25 01:27	41.2
1,4-Dioxane	740	U	740	28	ug/m3			06/06/25 01:27	41.2
Bromodichloromethane	55	U	55	16	ug/m3			06/06/25 01:27	41.2
cis-1,3-Dichloropropene	37	U	37	10	ug/m3			06/06/25 01:27	41.2
4-Methyl-2-pentanone (Methyl isobutyl ketone)	84	U	84	32	ug/m3			06/06/25 01:27	41.2
Toluene	31	U	31	8.4	ug/m3			06/06/25 01:27	41.2
trans-1,3-Dichloropropene	37	U	37	12	ug/m3			06/06/25 01:27	41.2
1,1,2-Trichloroethane	45	U	45	12	ug/m3			06/06/25 01:27	41.2
Tetrachloroethene	56	U	56	10	ug/m3			06/06/25 01:27	41.2
Methyl Butyl Ketone (2-Hexanone)	84	U	84	34	ug/m3			06/06/25 01:27	41.2
Dibromochloromethane	70	U	70	19	ug/m3			06/06/25 01:27	41.2
1,2-Dibromoethane	63	U	63	14	ug/m3			06/06/25 01:27	41.2

Eurofins Burlington

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-1

Lab Sample ID: 200-78231-1

Date Collected: 05/30/25 11:53

Matrix: Air

Date Received: 06/02/25 10:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	38	U	38	8.9	ug/m3			06/06/25 01:27	41.2
Ethylbenzene	36	U	36	9.1	ug/m3			06/06/25 01:27	41.2
m,p-Xylene	3.0	J	89	2.5	ug/m3			06/06/25 01:27	41.2
o-Xylene	36	U	36	12	ug/m3			06/06/25 01:27	41.2
Styrene	35	U	35	9.8	ug/m3			06/06/25 01:27	41.2
Bromoform	85	U	85	25	ug/m3			06/06/25 01:27	41.2
Cumene	41	U	41	15	ug/m3			06/06/25 01:27	41.2
1,1,2,2-Tetrachloroethane	57	U	57	17	ug/m3			06/06/25 01:27	41.2
n-Propylbenzene	41	U	41	13	ug/m3			06/06/25 01:27	41.2
4-Ethyltoluene	41	U	41	14	ug/m3			06/06/25 01:27	41.2
1,3,5-Trimethylbenzene	41	U	41	14	ug/m3			06/06/25 01:27	41.2
2-Chlorotoluene	43	U	43	12	ug/m3			06/06/25 01:27	41.2
tert-Butylbenzene	45	U	45	16	ug/m3			06/06/25 01:27	41.2
1,2,4-Trimethylbenzene	41	U	41	17	ug/m3			06/06/25 01:27	41.2
sec-Butylbenzene	45	U	45	16	ug/m3			06/06/25 01:27	41.2
4-Isopropyltoluene	45	U	45	18	ug/m3			06/06/25 01:27	41.2
1,3-Dichlorobenzene	50	U	50	16	ug/m3			06/06/25 01:27	41.2
1,4-Dichlorobenzene	50	U	50	17	ug/m3			06/06/25 01:27	41.2
Benzyl chloride	43	U	43	16	ug/m3			06/06/25 01:27	41.2
n-Butylbenzene	45	U	45	16	ug/m3			06/06/25 01:27	41.2
1,2-Dichlorobenzene	50	U	50	16	ug/m3			06/06/25 01:27	41.2
1,2,4-Trichlorobenzene	150	U	150	92	ug/m3			06/06/25 01:27	41.2
Hexachlorobutadiene	88	U	88	34	ug/m3			06/06/25 01:27	41.2
Naphthalene	82	U	82	24	ug/m3			06/06/25 01:27	41.2
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	21	U	21	9.1	ppb v/v			06/06/25 01:27	41.2
Chlorodifluoromethane	21	U	21	15	ppb v/v			06/06/25 01:27	41.2
1,2-Dichlorotetrafluoroethane	8.2	U	8.2	3.1	ppb v/v			06/06/25 01:27	41.2
Chloromethane	21	U	21	14	ppb v/v			06/06/25 01:27	41.2
n-Butane	25		21	13	ppb v/v			06/06/25 01:27	41.2
Vinyl chloride	3.2	U	3.2	1.2	ppb v/v			06/06/25 01:27	41.2
1,3-Butadiene	8.2	U	8.2	1.6	ppb v/v			06/06/25 01:27	41.2
Bromomethane	8.2	U	8.2	2.6	ppb v/v			06/06/25 01:27	41.2
Chloroethane	21	U	21	6.6	ppb v/v			06/06/25 01:27	41.2
Bromoethene(Vinyl Bromide)	8.2	U	8.2	2.0	ppb v/v			06/06/25 01:27	41.2
Trichlorofluoromethane	8.2	U	8.2	3.2	ppb v/v			06/06/25 01:27	41.2
1,1,2-Trichlorotrifluoroethane	8.2	U	8.2	2.3	ppb v/v			06/06/25 01:27	41.2
1,1-Dichloroethene	2.1	U	2.1	1.4	ppb v/v			06/06/25 01:27	41.2
Acetone	3100	E	210	78	ppb v/v			06/06/25 01:27	41.2
Isopropyl alcohol	210	U	210	91	ppb v/v			06/06/25 01:27	41.2
Carbon disulfide	7.8	J B	21	7.4	ppb v/v			06/06/25 01:27	41.2
3-Chloropropene	21	U	21	3.3	ppb v/v			06/06/25 01:27	41.2
Methylene Chloride	21	U	21	7.8	ppb v/v			06/06/25 01:27	41.2
tert-Butyl alcohol	210	U	210	66	ppb v/v			06/06/25 01:27	41.2
Methyl tert-butyl ether	8.2	U	8.2	2.7	ppb v/v			06/06/25 01:27	41.2
trans-1,2-Dichloroethene	8.2	U	8.2	0.82	ppb v/v			06/06/25 01:27	41.2
n-Hexane	12	J	21	6.6	ppb v/v			06/06/25 01:27	41.2
1,1-Dichloroethane	8.2	U	8.2	0.74	ppb v/v			06/06/25 01:27	41.2

Eurofins Burlington

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-1

Lab Sample ID: 200-78231-1

Date Collected: 05/30/25 11:53

Matrix: Air

Date Received: 06/02/25 10:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone (2-Butanone)	64		21	5.8	ppb v/v			06/06/25 01:27	41.2
cis-1,2-Dichloroethene	2.1	U	2.1	1.3	ppb v/v			06/06/25 01:27	41.2
Chloroform	8.2	U	8.2	2.4	ppb v/v			06/06/25 01:27	41.2
Tetrahydrofuran	210	U	210	70	ppb v/v			06/06/25 01:27	41.2
1,1,1-Trichloroethane	8.2	U	8.2	3.0	ppb v/v			06/06/25 01:27	41.2
Cyclohexane	8.2	U	8.2	2.1	ppb v/v			06/06/25 01:27	41.2
Carbon tetrachloride	1.4	U	1.4	0.99	ppb v/v			06/06/25 01:27	41.2
2,2,4-Trimethylpentane	8.2	U	8.2	2.9	ppb v/v			06/06/25 01:27	41.2
Benzene	8.2	U	8.2	2.1	ppb v/v			06/06/25 01:27	41.2
1,2-Dichloroethane	8.2	U	8.2	3.0	ppb v/v			06/06/25 01:27	41.2
n-Heptane	12		8.2	3.5	ppb v/v			06/06/25 01:27	41.2
Trichloroethene	1.5	U	1.5	1.2	ppb v/v			06/06/25 01:27	41.2
Methyl methacrylate	21	U	21	5.4	ppb v/v			06/06/25 01:27	41.2
1,2-Dichloropropane	8.2	U	8.2	2.3	ppb v/v			06/06/25 01:27	41.2
1,4-Dioxane	210	U	210	7.8	ppb v/v			06/06/25 01:27	41.2
Bromodichloromethane	8.2	U	8.2	2.4	ppb v/v			06/06/25 01:27	41.2
cis-1,3-Dichloropropene	8.2	U	8.2	2.3	ppb v/v			06/06/25 01:27	41.2
4-Methyl-2-pentanone (Methyl isobutyl ketone)	21	U	21	7.8	ppb v/v			06/06/25 01:27	41.2
Toluene	8.2	U	8.2	2.2	ppb v/v			06/06/25 01:27	41.2
trans-1,3-Dichloropropene	8.2	U	8.2	2.6	ppb v/v			06/06/25 01:27	41.2
1,1,2-Trichloroethane	8.2	U	8.2	2.2	ppb v/v			06/06/25 01:27	41.2
Tetrachloroethene	8.2	U	8.2	1.5	ppb v/v			06/06/25 01:27	41.2
Methyl Butyl Ketone (2-Hexanone)	21	U	21	8.2	ppb v/v			06/06/25 01:27	41.2
Dibromochloromethane	8.2	U	8.2	2.2	ppb v/v			06/06/25 01:27	41.2
1,2-Dibromoethane	8.2	U	8.2	1.9	ppb v/v			06/06/25 01:27	41.2
Chlorobenzene	8.2	U	8.2	1.9	ppb v/v			06/06/25 01:27	41.2
Ethylbenzene	8.2	U	8.2	2.1	ppb v/v			06/06/25 01:27	41.2
m,p-Xylene	0.68 J		21	0.58	ppb v/v			06/06/25 01:27	41.2
o-Xylene	8.2	U	8.2	2.8	ppb v/v			06/06/25 01:27	41.2
Styrene	8.2	U	8.2	2.3	ppb v/v			06/06/25 01:27	41.2
Bromoform	8.2	U	8.2	2.4	ppb v/v			06/06/25 01:27	41.2
Cumene	8.2	U	8.2	3.0	ppb v/v			06/06/25 01:27	41.2
1,1,2,2-Tetrachloroethane	8.2	U	8.2	2.5	ppb v/v			06/06/25 01:27	41.2
n-Propylbenzene	8.2	U	8.2	2.6	ppb v/v			06/06/25 01:27	41.2
4-Ethyltoluene	8.2	U	8.2	2.8	ppb v/v			06/06/25 01:27	41.2
1,3,5-Trimethylbenzene	8.2	U	8.2	2.8	ppb v/v			06/06/25 01:27	41.2
2-Chlorotoluene	8.2	U	8.2	2.4	ppb v/v			06/06/25 01:27	41.2
tert-Butylbenzene	8.2	U	8.2	2.9	ppb v/v			06/06/25 01:27	41.2
1,2,4-Trimethylbenzene	8.2	U	8.2	3.4	ppb v/v			06/06/25 01:27	41.2
sec-Butylbenzene	8.2	U	8.2	3.0	ppb v/v			06/06/25 01:27	41.2
4-Isopropyltoluene	8.2	U	8.2	3.2	ppb v/v			06/06/25 01:27	41.2
1,3-Dichlorobenzene	8.2	U	8.2	2.6	ppb v/v			06/06/25 01:27	41.2
1,4-Dichlorobenzene	8.2	U	8.2	2.9	ppb v/v			06/06/25 01:27	41.2
Benzyl chloride	8.2	U	8.2	3.0	ppb v/v			06/06/25 01:27	41.2
n-Butylbenzene	8.2	U	8.2	2.9	ppb v/v			06/06/25 01:27	41.2
1,2-Dichlorobenzene	8.2	U	8.2	2.7	ppb v/v			06/06/25 01:27	41.2
1,2,4-Trichlorobenzene	21	U	21	12	ppb v/v			06/06/25 01:27	41.2
Hexachlorobutadiene	8.2	U	8.2	3.2	ppb v/v			06/06/25 01:27	41.2

Eurofins Burlington

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-1

Lab Sample ID: 200-78231-1

Date Collected: 05/30/25 11:53

Matrix: Air

Date Received: 06/02/25 10:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	16	U	16	4.5	ppb v/v			06/06/25 01:27	41.2

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	470	U	470	210	ug/m3			06/09/25 14:09	189
Chlorodifluoromethane	330	U	330	240	ug/m3			06/09/25 14:09	189
1,2-Dichlorotetrafluoroethane	260	U	260	100	ug/m3			06/09/25 14:09	189
Chloromethane	200	U	200	130	ug/m3			06/09/25 14:09	189
n-Butane	220	U	220	140	ug/m3			06/09/25 14:09	189
Vinyl chloride	38	U	38	14	ug/m3			06/09/25 14:09	189
1,3-Butadiene	84	U	84	17	ug/m3			06/09/25 14:09	189
Bromomethane	150	U	150	46	ug/m3			06/09/25 14:09	189
Chloroethane	250	U	250	80	ug/m3			06/09/25 14:09	189
Bromoethene(Vinyl Bromide)	170	U	170	40	ug/m3			06/09/25 14:09	189
Trichlorofluoromethane	210	U	210	82	ug/m3			06/09/25 14:09	189
1,1,2-Trichlorotrifluoroethane	290	U	290	83	ug/m3			06/09/25 14:09	189
1,1-Dichloroethene	38	U	38	26	ug/m3			06/09/25 14:09	189
Acetone	16000	D	2200	850	ug/m3			06/09/25 14:09	189
Isopropyl alcohol	2300	U	2300	1000	ug/m3			06/09/25 14:09	189
Carbon disulfide	290	U	290	110	ug/m3			06/09/25 14:09	189
3-Chloropropene	300	U	300	48	ug/m3			06/09/25 14:09	189
Methylene Chloride	330	U	330	120	ug/m3			06/09/25 14:09	189
tert-Butyl alcohol	2900	U	2900	920	ug/m3			06/09/25 14:09	189
Methyl tert-butyl ether	140	U	140	45	ug/m3			06/09/25 14:09	189
trans-1,2-Dichloroethene	150	U	150	15	ug/m3			06/09/25 14:09	189
n-Hexane	330	U	330	110	ug/m3			06/09/25 14:09	189
1,1-Dichloroethane	150	U	150	14	ug/m3			06/09/25 14:09	189
Methyl Ethyl Ketone (2-Butanone)	290	D	280	78	ug/m3			06/09/25 14:09	189
cis-1,2-Dichloroethene	38	U	38	24	ug/m3			06/09/25 14:09	189
Chloroform	180	U	180	54	ug/m3			06/09/25 14:09	189
Tetrahydrofuran	2800	U	2800	950	ug/m3			06/09/25 14:09	189
1,1,1-Trichloroethane	210	U	210	75	ug/m3			06/09/25 14:09	189
Cyclohexane	130	U	130	34	ug/m3			06/09/25 14:09	189
Carbon tetrachloride	42	U	42	29	ug/m3			06/09/25 14:09	189
2,2,4-Trimethylpentane	180	U	180	63	ug/m3			06/09/25 14:09	189
Benzene	120	U	120	31	ug/m3			06/09/25 14:09	189
1,2-Dichloroethane	150	U	150	57	ug/m3			06/09/25 14:09	189
n-Heptane	99	J D	150	67	ug/m3			06/09/25 14:09	189
Trichloroethene	38	U	38	29	ug/m3			06/09/25 14:09	189
Methyl methacrylate	390	U	390	100	ug/m3			06/09/25 14:09	189
1,2-Dichloropropane	170	U	170	48	ug/m3			06/09/25 14:09	189
1,4-Dioxane	3400	U	3400	130	ug/m3			06/09/25 14:09	189
Bromodichloromethane	250	U	250	73	ug/m3			06/09/25 14:09	189
cis-1,3-Dichloropropene	170	U	170	48	ug/m3			06/09/25 14:09	189
4-Methyl-2-pentanone (Methyl isobutyl ketone)	390	U	390	150	ug/m3			06/09/25 14:09	189
Toluene	140	U	140	38	ug/m3			06/09/25 14:09	189
trans-1,3-Dichloropropene	170	U	170	53	ug/m3			06/09/25 14:09	189
1,1,2-Trichloroethane	210	U	210	55	ug/m3			06/09/25 14:09	189

Eurofins Burlington

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-1

Lab Sample ID: 200-78231-1

Date Collected: 05/30/25 11:53

Matrix: Air

Date Received: 06/02/25 10:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	260	U	260	46	ug/m3			06/09/25 14:09	189
Methyl Butyl Ketone (2-Hexanone)	390	U	390	150	ug/m3			06/09/25 14:09	189
Dibromochloromethane	320	U	320	85	ug/m3			06/09/25 14:09	189
1,2-Dibromoethane	290	U	290	65	ug/m3			06/09/25 14:09	189
Chlorobenzene	170	U	170	41	ug/m3			06/09/25 14:09	189
Ethylbenzene	160	U	160	42	ug/m3			06/09/25 14:09	189
m,p-Xylene	410	U	410	11	ug/m3			06/09/25 14:09	189
o-Xylene	160	U	160	57	ug/m3			06/09/25 14:09	189
Styrene	160	U	160	45	ug/m3			06/09/25 14:09	189
Bromoform	390	U	390	110	ug/m3			06/09/25 14:09	189
Cumene	190	U	190	67	ug/m3			06/09/25 14:09	189
1,1,2,2-Tetrachloroethane	260	U	260	79	ug/m3			06/09/25 14:09	189
n-Propylbenzene	190	U	190	58	ug/m3			06/09/25 14:09	189
4-Ethyltoluene	190	U	190	63	ug/m3			06/09/25 14:09	189
1,3,5-Trimethylbenzene	190	U	190	63	ug/m3			06/09/25 14:09	189
2-Chlorotoluene	200	U	200	57	ug/m3			06/09/25 14:09	189
tert-Butylbenzene	210	U	210	73	ug/m3			06/09/25 14:09	189
1,2,4-Trimethylbenzene	190	U	190	76	ug/m3			06/09/25 14:09	189
sec-Butylbenzene	210	U	210	75	ug/m3			06/09/25 14:09	189
4-Isopropyltoluene	210	U	210	81	ug/m3			06/09/25 14:09	189
1,3-Dichlorobenzene	230	U	230	72	ug/m3			06/09/25 14:09	189
1,4-Dichlorobenzene	230	U	230	80	ug/m3			06/09/25 14:09	189
Benzyl chloride	200	U	200	72	ug/m3			06/09/25 14:09	189
n-Butylbenzene	210	U	210	73	ug/m3			06/09/25 14:09	189
1,2-Dichlorobenzene	230	U	230	75	ug/m3			06/09/25 14:09	189
1,2,4-Trichlorobenzene	700	U	700	420	ug/m3			06/09/25 14:09	189
Hexachlorobutadiene	400	U	400	160	ug/m3			06/09/25 14:09	189
Naphthalene	380	U	380	110	ug/m3			06/09/25 14:09	189
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	95	U	95	42	ppb v/v			06/09/25 14:09	189
Chlorodifluoromethane	95	U	95	68	ppb v/v			06/09/25 14:09	189
1,2-Dichlorotetrafluoroethane	38	U	38	14	ppb v/v			06/09/25 14:09	189
Chloromethane	95	U	95	62	ppb v/v			06/09/25 14:09	189
n-Butane	95	U	95	59	ppb v/v			06/09/25 14:09	189
Vinyl chloride	15	U	15	5.5	ppb v/v			06/09/25 14:09	189
1,3-Butadiene	38	U	38	7.6	ppb v/v			06/09/25 14:09	189
Bromomethane	38	U	38	12	ppb v/v			06/09/25 14:09	189
Chloroethane	95	U	95	30	ppb v/v			06/09/25 14:09	189
Bromoethene(Vinyl Bromide)	38	U	38	9.1	ppb v/v			06/09/25 14:09	189
Trichlorofluoromethane	38	U	38	15	ppb v/v			06/09/25 14:09	189
1,1,2-Trichlorotrifluoroethane	38	U	38	11	ppb v/v			06/09/25 14:09	189
1,1-Dichloroethene	9.5	U	9.5	6.6	ppb v/v			06/09/25 14:09	189
Acetone	6600	D	950	360	ppb v/v			06/09/25 14:09	189
Isopropyl alcohol	950	U	950	420	ppb v/v			06/09/25 14:09	189
Carbon disulfide	95	U	95	34	ppb v/v			06/09/25 14:09	189
3-Chloropropene	95	U	95	15	ppb v/v			06/09/25 14:09	189
Methylene Chloride	95	U	95	36	ppb v/v			06/09/25 14:09	189
tert-Butyl alcohol	950	U	950	300	ppb v/v			06/09/25 14:09	189

Eurofins Burlington

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-1

Lab Sample ID: 200-78231-1

Date Collected: 05/30/25 11:53

Matrix: Air

Date Received: 06/02/25 10:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	38	U	38	12	ppb v/v			06/09/25 14:09	189
trans-1,2-Dichloroethene	38	U	38	3.8	ppb v/v			06/09/25 14:09	189
n-Hexane	95	U	95	30	ppb v/v			06/09/25 14:09	189
1,1-Dichloroethane	38	U	38	3.4	ppb v/v			06/09/25 14:09	189
Methyl Ethyl Ketone (2-Butanone)	99	D	95	26	ppb v/v			06/09/25 14:09	189
cis-1,2-Dichloroethene	9.5	U	9.5	6.0	ppb v/v			06/09/25 14:09	189
Chloroform	38	U	38	11	ppb v/v			06/09/25 14:09	189
Tetrahydrofuran	950	U	950	320	ppb v/v			06/09/25 14:09	189
1,1,1-Trichloroethane	38	U	38	14	ppb v/v			06/09/25 14:09	189
Cyclohexane	38	U	38	9.8	ppb v/v			06/09/25 14:09	189
Carbon tetrachloride	6.6	U	6.6	4.5	ppb v/v			06/09/25 14:09	189
2,2,4-Trimethylpentane	38	U	38	13	ppb v/v			06/09/25 14:09	189
Benzene	38	U	38	9.6	ppb v/v			06/09/25 14:09	189
1,2-Dichloroethane	38	U	38	14	ppb v/v			06/09/25 14:09	189
n-Heptane	24	J D	38	16	ppb v/v			06/09/25 14:09	189
Trichloroethene	7.0	U	7.0	5.5	ppb v/v			06/09/25 14:09	189
Methyl methacrylate	95	U	95	25	ppb v/v			06/09/25 14:09	189
1,2-Dichloropropane	38	U	38	10	ppb v/v			06/09/25 14:09	189
1,4-Dioxane	950	U	950	36	ppb v/v			06/09/25 14:09	189
Bromodichloromethane	38	U	38	11	ppb v/v			06/09/25 14:09	189
cis-1,3-Dichloropropene	38	U	38	11	ppb v/v			06/09/25 14:09	189
4-Methyl-2-pentanone (Methyl isobutyl ketone)	95	U	95	36	ppb v/v			06/09/25 14:09	189
Toluene	38	U	38	10	ppb v/v			06/09/25 14:09	189
trans-1,3-Dichloropropene	38	U	38	12	ppb v/v			06/09/25 14:09	189
1,1,2-Trichloroethane	38	U	38	10	ppb v/v			06/09/25 14:09	189
Tetrachloroethene	38	U	38	6.8	ppb v/v			06/09/25 14:09	189
Methyl Butyl Ketone (2-Hexanone)	95	U	95	38	ppb v/v			06/09/25 14:09	189
Dibromochloromethane	38	U	38	10	ppb v/v			06/09/25 14:09	189
1,2-Dibromoethane	38	U	38	8.5	ppb v/v			06/09/25 14:09	189
Chlorobenzene	38	U	38	8.9	ppb v/v			06/09/25 14:09	189
Ethylbenzene	38	U	38	9.6	ppb v/v			06/09/25 14:09	189
m,p-Xylene	95	U	95	2.6	ppb v/v			06/09/25 14:09	189
o-Xylene	38	U	38	13	ppb v/v			06/09/25 14:09	189
Styrene	38	U	38	11	ppb v/v			06/09/25 14:09	189
Bromoform	38	U	38	11	ppb v/v			06/09/25 14:09	189
Cumene	38	U	38	14	ppb v/v			06/09/25 14:09	189
1,1,2,2-Tetrachloroethane	38	U	38	12	ppb v/v			06/09/25 14:09	189
n-Propylbenzene	38	U	38	12	ppb v/v			06/09/25 14:09	189
4-Ethyltoluene	38	U	38	13	ppb v/v			06/09/25 14:09	189
1,3,5-Trimethylbenzene	38	U	38	13	ppb v/v			06/09/25 14:09	189
2-Chlorotoluene	38	U	38	11	ppb v/v			06/09/25 14:09	189
tert-Butylbenzene	38	U	38	13	ppb v/v			06/09/25 14:09	189
1,2,4-Trimethylbenzene	38	U	38	15	ppb v/v			06/09/25 14:09	189
sec-Butylbenzene	38	U	38	14	ppb v/v			06/09/25 14:09	189
4-Isopropyltoluene	38	U	38	15	ppb v/v			06/09/25 14:09	189
1,3-Dichlorobenzene	38	U	38	12	ppb v/v			06/09/25 14:09	189
1,4-Dichlorobenzene	38	U	38	13	ppb v/v			06/09/25 14:09	189
Benzyl chloride	38	U	38	14	ppb v/v			06/09/25 14:09	189

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-1

Lab Sample ID: 200-78231-1

Date Collected: 05/30/25 11:53

Matrix: Air

Date Received: 06/02/25 10:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	38	U	38	13	ppb v/v			06/09/25 14:09	189
1,2-Dichlorobenzene	38	U	38	12	ppb v/v			06/09/25 14:09	189
1,2,4-Trichlorobenzene	95	U	95	57	ppb v/v			06/09/25 14:09	189
Hexachlorobutadiene	38	U	38	15	ppb v/v			06/09/25 14:09	189
Naphthalene	72	U	72	21	ppb v/v			06/09/25 14:09	189

Client Sample ID: RI-VP-2

Lab Sample ID: 200-78231-2

Date Collected: 05/30/25 12:03

Matrix: Air

Date Received: 06/02/25 10:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	2.8		2.5	1.1	ug/m3			06/05/25 15:47	1
Chlorodifluoromethane	1.7	J	1.8	1.3	ug/m3			06/05/25 15:47	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.53	ug/m3			06/05/25 15:47	1
Chloromethane	1.7		1.0	0.68	ug/m3			06/05/25 15:47	1
n-Butane	3.0		1.2	0.74	ug/m3			06/05/25 15:47	1
Vinyl chloride	0.20	U	0.20	0.074	ug/m3			06/05/25 15:47	1
1,3-Butadiene	0.44	U	0.44	0.088	ug/m3			06/05/25 15:47	1
Bromomethane	0.78	U	0.78	0.24	ug/m3			06/05/25 15:47	1
Chloroethane	1.3	U	1.3	0.42	ug/m3			06/05/25 15:47	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.21	ug/m3			06/05/25 15:47	1
Trichlorofluoromethane	1.5		1.1	0.43	ug/m3			06/05/25 15:47	1
1,1,2-Trichlorotrifluoroethane	0.53	J	1.5	0.44	ug/m3			06/05/25 15:47	1
1,1-Dichloroethene	0.20	U	0.20	0.14	ug/m3			06/05/25 15:47	1
Acetone	200	E	12	4.5	ug/m3			06/05/25 15:47	1
Isopropyl alcohol	31		12	5.4	ug/m3			06/05/25 15:47	1
Carbon disulfide	0.81	J B	1.6	0.56	ug/m3			06/05/25 15:47	1
3-Chloropropene	1.6	U	1.6	0.25	ug/m3			06/05/25 15:47	1
Methylene Chloride	1.7	U	1.7	0.66	ug/m3			06/05/25 15:47	1
tert-Butyl alcohol	15	U	15	4.9	ug/m3			06/05/25 15:47	1
Methyl tert-butyl ether	0.72	U	0.72	0.24	ug/m3			06/05/25 15:47	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.079	ug/m3			06/05/25 15:47	1
n-Hexane	1.8	U	1.8	0.56	ug/m3			06/05/25 15:47	1
1,1-Dichloroethane	0.81	U	0.81	0.073	ug/m3			06/05/25 15:47	1
Methyl Ethyl Ketone (2-Butanone)	37		1.5	0.41	ug/m3			06/05/25 15:47	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.13	ug/m3			06/05/25 15:47	1
Chloroform	0.98	U	0.98	0.29	ug/m3			06/05/25 15:47	1
Tetrahydrofuran	15	U	15	5.0	ug/m3			06/05/25 15:47	1
1,1,1-Trichloroethane	1.1	U	1.1	0.40	ug/m3			06/05/25 15:47	1
Cyclohexane	0.28	J	0.69	0.18	ug/m3			06/05/25 15:47	1
Carbon tetrachloride	0.47		0.22	0.15	ug/m3			06/05/25 15:47	1
2,2,4-Trimethylpentane	0.93	U	0.93	0.33	ug/m3			06/05/25 15:47	1
Benzene	0.28	J	0.64	0.16	ug/m3			06/05/25 15:47	1
1,2-Dichloroethane	0.81	U	0.81	0.30	ug/m3			06/05/25 15:47	1
n-Heptane	8.4		0.82	0.35	ug/m3			06/05/25 15:47	1
Trichloroethene	0.20	U	0.20	0.16	ug/m3			06/05/25 15:47	1
Methyl methacrylate	2.3		2.0	0.53	ug/m3			06/05/25 15:47	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-2

Lab Sample ID: 200-78231-2

Date Collected: 05/30/25 12:03

Matrix: Air

Date Received: 06/02/25 10:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	0.92	U	0.92	0.25	ug/m3			06/05/25 15:47	1
1,4-Dioxane	18	U	18	0.68	ug/m3			06/05/25 15:47	1
Bromodichloromethane	1.3	U	1.3	0.39	ug/m3			06/05/25 15:47	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.25	ug/m3			06/05/25 15:47	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	3.5		2.0	0.78	ug/m3			06/05/25 15:47	1
Toluene	2.1		0.75	0.20	ug/m3			06/05/25 15:47	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.28	ug/m3			06/05/25 15:47	1
1,1,2-Trichloroethane	1.1	U	1.1	0.29	ug/m3			06/05/25 15:47	1
Tetrachloroethene	1.4	U	1.4	0.24	ug/m3			06/05/25 15:47	1
Methyl Butyl Ketone (2-Hexanone)	6.7		2.0	0.82	ug/m3			06/05/25 15:47	1
Dibromochloromethane	1.7	U	1.7	0.45	ug/m3			06/05/25 15:47	1
1,2-Dibromoethane	1.5	U	1.5	0.35	ug/m3			06/05/25 15:47	1
Chlorobenzene	0.92	U	0.92	0.22	ug/m3			06/05/25 15:47	1
Ethylbenzene	0.57	J	0.87	0.22	ug/m3			06/05/25 15:47	1
m,p-Xylene	2.6		2.2	0.061	ug/m3			06/05/25 15:47	1
o-Xylene	0.89		0.87	0.30	ug/m3			06/05/25 15:47	1
Styrene	0.85	U	0.85	0.24	ug/m3			06/05/25 15:47	1
Bromoform	2.1	U	2.1	0.60	ug/m3			06/05/25 15:47	1
Cumene	0.98	U	0.98	0.35	ug/m3			06/05/25 15:47	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.42	ug/m3			06/05/25 15:47	1
n-Propylbenzene	0.45	J	0.98	0.30	ug/m3			06/05/25 15:47	1
4-Ethyltoluene	0.75	J	0.98	0.33	ug/m3			06/05/25 15:47	1
1,3,5-Trimethylbenzene	0.80	J	0.98	0.33	ug/m3			06/05/25 15:47	1
2-Chlorotoluene	1.0	U	1.0	0.30	ug/m3			06/05/25 15:47	1
tert-Butylbenzene	1.1	U	1.1	0.38	ug/m3			06/05/25 15:47	1
1,2,4-Trimethylbenzene	6.6		0.98	0.40	ug/m3			06/05/25 15:47	1
sec-Butylbenzene	1.1	U	1.1	0.40	ug/m3			06/05/25 15:47	1
4-Isopropyltoluene	26		1.1	0.43	ug/m3			06/05/25 15:47	1
1,3-Dichlorobenzene	1.2	U	1.2	0.38	ug/m3			06/05/25 15:47	1
1,4-Dichlorobenzene	8.5		1.2	0.42	ug/m3			06/05/25 15:47	1
Benzyl chloride	1.0	U	1.0	0.38	ug/m3			06/05/25 15:47	1
n-Butylbenzene	1.1	U	1.1	0.38	ug/m3			06/05/25 15:47	1
1,2-Dichlorobenzene	1.2	U	1.2	0.40	ug/m3			06/05/25 15:47	1
1,2,4-Trichlorobenzene	3.7	U	3.7	2.2	ug/m3			06/05/25 15:47	1
Hexachlorobutadiene	2.1	U	2.1	0.83	ug/m3			06/05/25 15:47	1
Naphthalene	2.8		2.0	0.58	ug/m3			06/05/25 15:47	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.57		0.50	0.22	ppb v/v			06/05/25 15:47	1
Chlorodifluoromethane	0.48	J	0.50	0.36	ppb v/v			06/05/25 15:47	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.076	ppb v/v			06/05/25 15:47	1
Chloromethane	0.81		0.50	0.33	ppb v/v			06/05/25 15:47	1
n-Butane	1.3		0.50	0.31	ppb v/v			06/05/25 15:47	1
Vinyl chloride	0.078	U	0.078	0.029	ppb v/v			06/05/25 15:47	1
1,3-Butadiene	0.20	U	0.20	0.040	ppb v/v			06/05/25 15:47	1
Bromomethane	0.20	U	0.20	0.062	ppb v/v			06/05/25 15:47	1
Chloroethane	0.50	U	0.50	0.16	ppb v/v			06/05/25 15:47	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.048	ppb v/v			06/05/25 15:47	1

Eurofins Burlington

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-2

Lab Sample ID: 200-78231-2

Date Collected: 05/30/25 12:03

Matrix: Air

Date Received: 06/02/25 10:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	0.26		0.20	0.077	ppb v/v			06/05/25 15:47	1
1,1,2-Trichlorotrifluoroethane	0.069	J	0.20	0.057	ppb v/v			06/05/25 15:47	1
1,1-Dichloroethene	0.050	U	0.050	0.035	ppb v/v			06/05/25 15:47	1
Acetone	82	E	5.0	1.9	ppb v/v			06/05/25 15:47	1
Isopropyl alcohol	13		5.0	2.2	ppb v/v			06/05/25 15:47	1
Carbon disulfide	0.26	J B	0.50	0.18	ppb v/v			06/05/25 15:47	1
3-Chloropropene	0.50	U	0.50	0.081	ppb v/v			06/05/25 15:47	1
Methylene Chloride	0.50	U	0.50	0.19	ppb v/v			06/05/25 15:47	1
tert-Butyl alcohol	5.0	U	5.0	1.6	ppb v/v			06/05/25 15:47	1
Methyl tert-butyl ether	0.20	U	0.20	0.066	ppb v/v			06/05/25 15:47	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.020	ppb v/v			06/05/25 15:47	1
n-Hexane	0.50	U	0.50	0.16	ppb v/v			06/05/25 15:47	1
1,1-Dichloroethane	0.20	U	0.20	0.018	ppb v/v			06/05/25 15:47	1
Methyl Ethyl Ketone (2-Butanone)	13		0.50	0.14	ppb v/v			06/05/25 15:47	1
cis-1,2-Dichloroethene	0.050	U	0.050	0.032	ppb v/v			06/05/25 15:47	1
Chloroform	0.20	U	0.20	0.059	ppb v/v			06/05/25 15:47	1
Tetrahydrofuran	5.0	U	5.0	1.7	ppb v/v			06/05/25 15:47	1
1,1,1-Trichloroethane	0.20	U	0.20	0.073	ppb v/v			06/05/25 15:47	1
Cyclohexane	0.082	J	0.20	0.052	ppb v/v			06/05/25 15:47	1
Carbon tetrachloride	0.075		0.035	0.024	ppb v/v			06/05/25 15:47	1
2,2,4-Trimethylpentane	0.20	U	0.20	0.071	ppb v/v			06/05/25 15:47	1
Benzene	0.089	J	0.20	0.051	ppb v/v			06/05/25 15:47	1
1,2-Dichloroethane	0.20	U	0.20	0.074	ppb v/v			06/05/25 15:47	1
n-Heptane	2.1		0.20	0.086	ppb v/v			06/05/25 15:47	1
Trichloroethene	0.037	U	0.037	0.029	ppb v/v			06/05/25 15:47	1
Methyl methacrylate	0.56		0.50	0.13	ppb v/v			06/05/25 15:47	1
1,2-Dichloropropane	0.20	U	0.20	0.055	ppb v/v			06/05/25 15:47	1
1,4-Dioxane	5.0	U	5.0	0.19	ppb v/v			06/05/25 15:47	1
Bromodichloromethane	0.20	U	0.20	0.058	ppb v/v			06/05/25 15:47	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.056	ppb v/v			06/05/25 15:47	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	0.86		0.50	0.19	ppb v/v			06/05/25 15:47	1
Toluene	0.56		0.20	0.054	ppb v/v			06/05/25 15:47	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.062	ppb v/v			06/05/25 15:47	1
1,1,2-Trichloroethane	0.20	U	0.20	0.053	ppb v/v			06/05/25 15:47	1
Tetrachloroethene	0.20	U	0.20	0.036	ppb v/v			06/05/25 15:47	1
Methyl Butyl Ketone (2-Hexanone)	1.6		0.50	0.20	ppb v/v			06/05/25 15:47	1
Dibromochloromethane	0.20	U	0.20	0.053	ppb v/v			06/05/25 15:47	1
1,2-Dibromoethane	0.20	U	0.20	0.045	ppb v/v			06/05/25 15:47	1
Chlorobenzene	0.20	U	0.20	0.047	ppb v/v			06/05/25 15:47	1
Ethylbenzene	0.13	J	0.20	0.051	ppb v/v			06/05/25 15:47	1
m,p-Xylene	0.59		0.50	0.014	ppb v/v			06/05/25 15:47	1
o-Xylene	0.21		0.20	0.069	ppb v/v			06/05/25 15:47	1
Styrene	0.20	U	0.20	0.056	ppb v/v			06/05/25 15:47	1
Bromoform	0.20	U	0.20	0.058	ppb v/v			06/05/25 15:47	1
Cumene	0.20	U	0.20	0.072	ppb v/v			06/05/25 15:47	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.061	ppb v/v			06/05/25 15:47	1
n-Propylbenzene	0.092	J	0.20	0.062	ppb v/v			06/05/25 15:47	1
4-Ethyltoluene	0.15	J	0.20	0.068	ppb v/v			06/05/25 15:47	1

Eurofins Burlington

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-2

Lab Sample ID: 200-78231-2

Date Collected: 05/30/25 12:03

Matrix: Air

Date Received: 06/02/25 10:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	0.16	J	0.20	0.068	ppb v/v			06/05/25 15:47	1
2-Chlorotoluene	0.20	U	0.20	0.058	ppb v/v			06/05/25 15:47	1
tert-Butylbenzene	0.20	U	0.20	0.070	ppb v/v			06/05/25 15:47	1
1,2,4-Trimethylbenzene	1.3		0.20	0.082	ppb v/v			06/05/25 15:47	1
sec-Butylbenzene	0.20	U	0.20	0.072	ppb v/v			06/05/25 15:47	1
4-Isopropyltoluene	4.8		0.20	0.078	ppb v/v			06/05/25 15:47	1
1,3-Dichlorobenzene	0.20	U	0.20	0.063	ppb v/v			06/05/25 15:47	1
1,4-Dichlorobenzene	1.4		0.20	0.070	ppb v/v			06/05/25 15:47	1
Benzyl chloride	0.20	U	0.20	0.074	ppb v/v			06/05/25 15:47	1
n-Butylbenzene	0.20	U	0.20	0.070	ppb v/v			06/05/25 15:47	1
1,2-Dichlorobenzene	0.20	U	0.20	0.066	ppb v/v			06/05/25 15:47	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.30	ppb v/v			06/05/25 15:47	1
Hexachlorobutadiene	0.20	U	0.20	0.078	ppb v/v			06/05/25 15:47	1
Naphthalene	0.53		0.38	0.11	ppb v/v			06/05/25 15:47	1

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	25	U	25	11	ug/m3			06/05/25 14:48	10
Chlorodifluoromethane	18	U	18	13	ug/m3			06/05/25 14:48	10
1,2-Dichlorotetrafluoroethane	14	U	14	5.3	ug/m3			06/05/25 14:48	10
Chloromethane	10	U	10	6.8	ug/m3			06/05/25 14:48	10
n-Butane	12	U	12	7.4	ug/m3			06/05/25 14:48	10
Vinyl chloride	2.0	U	2.0	0.74	ug/m3			06/05/25 14:48	10
1,3-Butadiene	4.4	U	4.4	0.88	ug/m3			06/05/25 14:48	10
Bromomethane	7.8	U	7.8	2.4	ug/m3			06/05/25 14:48	10
Chloroethane	13	U	13	4.2	ug/m3			06/05/25 14:48	10
Bromoethene(Vinyl Bromide)	8.7	U	8.7	2.1	ug/m3			06/05/25 14:48	10
Trichlorofluoromethane	11	U	11	4.3	ug/m3			06/05/25 14:48	10
1,1,2-Trichlorotrifluoroethane	15	U	15	4.4	ug/m3			06/05/25 14:48	10
1,1-Dichloroethene	2.0	U	2.0	1.4	ug/m3			06/05/25 14:48	10
Acetone	180	D	120	45	ug/m3			06/05/25 14:48	10
Isopropyl alcohol	120	U	120	54	ug/m3			06/05/25 14:48	10
Carbon disulfide	6.5	J B D	16	5.6	ug/m3			06/05/25 14:48	10
3-Chloropropene	16	U	16	2.5	ug/m3			06/05/25 14:48	10
Methylene Chloride	17	U	17	6.6	ug/m3			06/05/25 14:48	10
tert-Butyl alcohol	150	U	150	49	ug/m3			06/05/25 14:48	10
Methyl tert-butyl ether	7.2	U	7.2	2.4	ug/m3			06/05/25 14:48	10
trans-1,2-Dichloroethene	7.9	U	7.9	0.79	ug/m3			06/05/25 14:48	10
n-Hexane	18	U	18	5.6	ug/m3			06/05/25 14:48	10
1,1-Dichloroethane	8.1	U	8.1	0.73	ug/m3			06/05/25 14:48	10
Methyl Ethyl Ketone (2-Butanone)	32	D	15	4.1	ug/m3			06/05/25 14:48	10
cis-1,2-Dichloroethene	2.0	U	2.0	1.3	ug/m3			06/05/25 14:48	10
Chloroform	9.8	U	9.8	2.9	ug/m3			06/05/25 14:48	10
Tetrahydrofuran	150	U	150	50	ug/m3			06/05/25 14:48	10
1,1,1-Trichloroethane	11	U	11	4.0	ug/m3			06/05/25 14:48	10
Cyclohexane	6.9	U	6.9	1.8	ug/m3			06/05/25 14:48	10
Carbon tetrachloride	2.2	U	2.2	1.5	ug/m3			06/05/25 14:48	10
2,2,4-Trimethylpentane	9.3	U	9.3	3.3	ug/m3			06/05/25 14:48	10
Benzene	6.4	U	6.4	1.6	ug/m3			06/05/25 14:48	10

Eurofins Burlington

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-2

Lab Sample ID: 200-78231-2

Date Collected: 05/30/25 12:03

Matrix: Air

Date Received: 06/02/25 10:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	8.1	U	8.1	3.0	ug/m3			06/05/25 14:48	10
n-Heptane	8.2	U	8.2	3.5	ug/m3			06/05/25 14:48	10
Trichloroethene	2.0	U	2.0	1.6	ug/m3			06/05/25 14:48	10
Methyl methacrylate	20	U	20	5.3	ug/m3			06/05/25 14:48	10
1,2-Dichloropropane	9.2	U	9.2	2.5	ug/m3			06/05/25 14:48	10
1,4-Dioxane	180	U	180	6.8	ug/m3			06/05/25 14:48	10
Bromodichloromethane	13	U	13	3.9	ug/m3			06/05/25 14:48	10
cis-1,3-Dichloropropene	9.1	U	9.1	2.5	ug/m3			06/05/25 14:48	10
4-Methyl-2-pentanone (Methyl isobutyl ketone)	20	U	20	7.8	ug/m3			06/05/25 14:48	10
Toluene	7.5	U	7.5	2.0	ug/m3			06/05/25 14:48	10
trans-1,3-Dichloropropene	9.1	U	9.1	2.8	ug/m3			06/05/25 14:48	10
1,1,2-Trichloroethane	11	U	11	2.9	ug/m3			06/05/25 14:48	10
Tetrachloroethene	14	U	14	2.4	ug/m3			06/05/25 14:48	10
Methyl Butyl Ketone (2-Hexanone)	20	U	20	8.2	ug/m3			06/05/25 14:48	10
Dibromochloromethane	17	U	17	4.5	ug/m3			06/05/25 14:48	10
1,2-Dibromoethane	15	U	15	3.5	ug/m3			06/05/25 14:48	10
Chlorobenzene	9.2	U	9.2	2.2	ug/m3			06/05/25 14:48	10
Ethylbenzene	8.7	U	8.7	2.2	ug/m3			06/05/25 14:48	10
m,p-Xylene	1.9	J D	22	0.61	ug/m3			06/05/25 14:48	10
o-Xylene	8.7	U	8.7	3.0	ug/m3			06/05/25 14:48	10
Styrene	8.5	U	8.5	2.4	ug/m3			06/05/25 14:48	10
Bromoform	21	U	21	6.0	ug/m3			06/05/25 14:48	10
Cumene	9.8	U	9.8	3.5	ug/m3			06/05/25 14:48	10
1,1,2,2-Tetrachloroethane	14	U	14	4.2	ug/m3			06/05/25 14:48	10
n-Propylbenzene	9.8	U	9.8	3.0	ug/m3			06/05/25 14:48	10
4-Ethyltoluene	9.8	U	9.8	3.3	ug/m3			06/05/25 14:48	10
1,3,5-Trimethylbenzene	9.8	U	9.8	3.3	ug/m3			06/05/25 14:48	10
2-Chlorotoluene	10	U	10	3.0	ug/m3			06/05/25 14:48	10
tert-Butylbenzene	11	U	11	3.8	ug/m3			06/05/25 14:48	10
1,2,4-Trimethylbenzene	4.1	J D	9.8	4.0	ug/m3			06/05/25 14:48	10
sec-Butylbenzene	11	U	11	4.0	ug/m3			06/05/25 14:48	10
4-Isopropyltoluene	17	D	11	4.3	ug/m3			06/05/25 14:48	10
1,3-Dichlorobenzene	12	U	12	3.8	ug/m3			06/05/25 14:48	10
1,4-Dichlorobenzene	6.6	J D	12	4.2	ug/m3			06/05/25 14:48	10
Benzyl chloride	10	U	10	3.8	ug/m3			06/05/25 14:48	10
n-Butylbenzene	11	U	11	3.8	ug/m3			06/05/25 14:48	10
1,2-Dichlorobenzene	12	U	12	4.0	ug/m3			06/05/25 14:48	10
1,2,4-Trichlorobenzene	37	U	37	22	ug/m3			06/05/25 14:48	10
Hexachlorobutadiene	21	U	21	8.3	ug/m3			06/05/25 14:48	10
Naphthalene	20	U	20	5.8	ug/m3			06/05/25 14:48	10
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	5.0	U	5.0	2.2	ppb v/v			06/05/25 14:48	10
Chlorodifluoromethane	5.0	U	5.0	3.6	ppb v/v			06/05/25 14:48	10
1,2-Dichlorotetrafluoroethane	2.0	U	2.0	0.76	ppb v/v			06/05/25 14:48	10
Chloromethane	5.0	U	5.0	3.3	ppb v/v			06/05/25 14:48	10
n-Butane	5.0	U	5.0	3.1	ppb v/v			06/05/25 14:48	10
Vinyl chloride	0.78	U	0.78	0.29	ppb v/v			06/05/25 14:48	10

Eurofins Burlington

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-2

Lab Sample ID: 200-78231-2

Date Collected: 05/30/25 12:03

Matrix: Air

Date Received: 06/02/25 10:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Butadiene	2.0	U	2.0	0.40	ppb v/v			06/05/25 14:48	10
Bromomethane	2.0	U	2.0	0.62	ppb v/v			06/05/25 14:48	10
Chloroethane	5.0	U	5.0	1.6	ppb v/v			06/05/25 14:48	10
Bromoethene(Vinyl Bromide)	2.0	U	2.0	0.48	ppb v/v			06/05/25 14:48	10
Trichlorofluoromethane	2.0	U	2.0	0.77	ppb v/v			06/05/25 14:48	10
1,1,2-Trichlorotrifluoroethane	2.0	U	2.0	0.57	ppb v/v			06/05/25 14:48	10
1,1-Dichloroethene	0.50	U	0.50	0.35	ppb v/v			06/05/25 14:48	10
Acetone	74	D	50	19	ppb v/v			06/05/25 14:48	10
Isopropyl alcohol	50	U	50	22	ppb v/v			06/05/25 14:48	10
Carbon disulfide	2.1	J B D	5.0	1.8	ppb v/v			06/05/25 14:48	10
3-Chloropropene	5.0	U	5.0	0.81	ppb v/v			06/05/25 14:48	10
Methylene Chloride	5.0	U	5.0	1.9	ppb v/v			06/05/25 14:48	10
tert-Butyl alcohol	50	U	50	16	ppb v/v			06/05/25 14:48	10
Methyl tert-butyl ether	2.0	U	2.0	0.66	ppb v/v			06/05/25 14:48	10
trans-1,2-Dichloroethene	2.0	U	2.0	0.20	ppb v/v			06/05/25 14:48	10
n-Hexane	5.0	U	5.0	1.6	ppb v/v			06/05/25 14:48	10
1,1-Dichloroethane	2.0	U	2.0	0.18	ppb v/v			06/05/25 14:48	10
Methyl Ethyl Ketone (2-Butanone)	11	D	5.0	1.4	ppb v/v			06/05/25 14:48	10
cis-1,2-Dichloroethene	0.50	U	0.50	0.32	ppb v/v			06/05/25 14:48	10
Chloroform	2.0	U	2.0	0.59	ppb v/v			06/05/25 14:48	10
Tetrahydrofuran	50	U	50	17	ppb v/v			06/05/25 14:48	10
1,1,1-Trichloroethane	2.0	U	2.0	0.73	ppb v/v			06/05/25 14:48	10
Cyclohexane	2.0	U	2.0	0.52	ppb v/v			06/05/25 14:48	10
Carbon tetrachloride	0.35	U	0.35	0.24	ppb v/v			06/05/25 14:48	10
2,2,4-Trimethylpentane	2.0	U	2.0	0.71	ppb v/v			06/05/25 14:48	10
Benzene	2.0	U	2.0	0.51	ppb v/v			06/05/25 14:48	10
1,2-Dichloroethane	2.0	U	2.0	0.74	ppb v/v			06/05/25 14:48	10
n-Heptane	2.0	U	2.0	0.86	ppb v/v			06/05/25 14:48	10
Trichloroethene	0.37	U	0.37	0.29	ppb v/v			06/05/25 14:48	10
Methyl methacrylate	5.0	U	5.0	1.3	ppb v/v			06/05/25 14:48	10
1,2-Dichloropropane	2.0	U	2.0	0.55	ppb v/v			06/05/25 14:48	10
1,4-Dioxane	50	U	50	1.9	ppb v/v			06/05/25 14:48	10
Bromodichloromethane	2.0	U	2.0	0.58	ppb v/v			06/05/25 14:48	10
cis-1,3-Dichloropropene	2.0	U	2.0	0.56	ppb v/v			06/05/25 14:48	10
4-Methyl-2-pentanone (Methyl isobutyl ketone)	5.0	U	5.0	1.9	ppb v/v			06/05/25 14:48	10
Toluene	2.0	U	2.0	0.54	ppb v/v			06/05/25 14:48	10
trans-1,3-Dichloropropene	2.0	U	2.0	0.62	ppb v/v			06/05/25 14:48	10
1,1,2-Trichloroethane	2.0	U	2.0	0.53	ppb v/v			06/05/25 14:48	10
Tetrachloroethene	2.0	U	2.0	0.36	ppb v/v			06/05/25 14:48	10
Methyl Butyl Ketone (2-Hexanone)	5.0	U	5.0	2.0	ppb v/v			06/05/25 14:48	10
Dibromochloromethane	2.0	U	2.0	0.53	ppb v/v			06/05/25 14:48	10
1,2-Dibromoethane	2.0	U	2.0	0.45	ppb v/v			06/05/25 14:48	10
Chlorobenzene	2.0	U	2.0	0.47	ppb v/v			06/05/25 14:48	10
Ethylbenzene	2.0	U	2.0	0.51	ppb v/v			06/05/25 14:48	10
m,p-Xylene	0.44	J D	5.0	0.14	ppb v/v			06/05/25 14:48	10
o-Xylene	2.0	U	2.0	0.69	ppb v/v			06/05/25 14:48	10
Styrene	2.0	U	2.0	0.56	ppb v/v			06/05/25 14:48	10
Bromoform	2.0	U	2.0	0.58	ppb v/v			06/05/25 14:48	10

Eurofins Burlington

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-2

Lab Sample ID: 200-78231-2

Date Collected: 05/30/25 12:03

Matrix: Air

Date Received: 06/02/25 10:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cumene	2.0	U	2.0	0.72	ppb v/v			06/05/25 14:48	10
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.61	ppb v/v			06/05/25 14:48	10
n-Propylbenzene	2.0	U	2.0	0.62	ppb v/v			06/05/25 14:48	10
4-Ethyltoluene	2.0	U	2.0	0.68	ppb v/v			06/05/25 14:48	10
1,3,5-Trimethylbenzene	2.0	U	2.0	0.68	ppb v/v			06/05/25 14:48	10
2-Chlorotoluene	2.0	U	2.0	0.58	ppb v/v			06/05/25 14:48	10
tert-Butylbenzene	2.0	U	2.0	0.70	ppb v/v			06/05/25 14:48	10
1,2,4-Trimethylbenzene	0.84	J D	2.0	0.82	ppb v/v			06/05/25 14:48	10
sec-Butylbenzene	2.0	U	2.0	0.72	ppb v/v			06/05/25 14:48	10
4-Isopropyltoluene	3.1	D	2.0	0.78	ppb v/v			06/05/25 14:48	10
1,3-Dichlorobenzene	2.0	U	2.0	0.63	ppb v/v			06/05/25 14:48	10
1,4-Dichlorobenzene	1.1	J D	2.0	0.70	ppb v/v			06/05/25 14:48	10
Benzyl chloride	2.0	U	2.0	0.74	ppb v/v			06/05/25 14:48	10
n-Butylbenzene	2.0	U	2.0	0.70	ppb v/v			06/05/25 14:48	10
1,2-Dichlorobenzene	2.0	U	2.0	0.66	ppb v/v			06/05/25 14:48	10
1,2,4-Trichlorobenzene	5.0	U	5.0	3.0	ppb v/v			06/05/25 14:48	10
Hexachlorobutadiene	2.0	U	2.0	0.78	ppb v/v			06/05/25 14:48	10
Naphthalene	3.8	U	3.8	1.1	ppb v/v			06/05/25 14:48	10

Client Sample ID: RI-VP-3

Lab Sample ID: 200-78231-3

Date Collected: 05/30/25 11:56

Matrix: Air

Date Received: 06/02/25 10:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	25	U	25	11	ug/m3			06/05/25 16:44	10
Chlorodifluoromethane	18	U	18	13	ug/m3			06/05/25 16:44	10
1,2-Dichlorotetrafluoroethane	14	U	14	5.3	ug/m3			06/05/25 16:44	10
Chloromethane	10	U	10	6.8	ug/m3			06/05/25 16:44	10
n-Butane	13		12	7.4	ug/m3			06/05/25 16:44	10
Vinyl chloride	2.0	U	2.0	0.74	ug/m3			06/05/25 16:44	10
1,3-Butadiene	4.4	U	4.4	0.88	ug/m3			06/05/25 16:44	10
Bromomethane	7.8	U	7.8	2.4	ug/m3			06/05/25 16:44	10
Chloroethane	13	U	13	4.2	ug/m3			06/05/25 16:44	10
Bromoethene(Vinyl Bromide)	8.7	U	8.7	2.1	ug/m3			06/05/25 16:44	10
Trichlorofluoromethane	11	U	11	4.3	ug/m3			06/05/25 16:44	10
1,1,2-Trichlorotrifluoroethane	15	U	15	4.4	ug/m3			06/05/25 16:44	10
1,1-Dichloroethene	2.0	U	2.0	1.4	ug/m3			06/05/25 16:44	10
Acetone	2100	E	120	45	ug/m3			06/05/25 16:44	10
Isopropyl alcohol	120	U	120	54	ug/m3			06/05/25 16:44	10
Carbon disulfide	12	J B	16	5.6	ug/m3			06/05/25 16:44	10
3-Chloropropene	16	U	16	2.5	ug/m3			06/05/25 16:44	10
Methylene Chloride	17	U	17	6.6	ug/m3			06/05/25 16:44	10
tert-Butyl alcohol	150	U	150	49	ug/m3			06/05/25 16:44	10
Methyl tert-butyl ether	7.2	U	7.2	2.4	ug/m3			06/05/25 16:44	10
trans-1,2-Dichloroethene	7.9	U	7.9	0.79	ug/m3			06/05/25 16:44	10
n-Hexane	18	U	18	5.6	ug/m3			06/05/25 16:44	10
1,1-Dichloroethane	8.1	U	8.1	0.73	ug/m3			06/05/25 16:44	10

Eurofins Burlington

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-3

Lab Sample ID: 200-78231-3

Date Collected: 05/30/25 11:56

Matrix: Air

Date Received: 06/02/25 10:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone (2-Butanone)	16		15	4.1	ug/m3			06/05/25 16:44	10
cis-1,2-Dichloroethene	2.0	U	2.0	1.3	ug/m3			06/05/25 16:44	10
Chloroform	9.8	U	9.8	2.9	ug/m3			06/05/25 16:44	10
Tetrahydrofuran	150	U	150	50	ug/m3			06/05/25 16:44	10
1,1,1-Trichloroethane	11	U	11	4.0	ug/m3			06/05/25 16:44	10
Cyclohexane	4.3 J		6.9	1.8	ug/m3			06/05/25 16:44	10
Carbon tetrachloride	2.2	U	2.2	1.5	ug/m3			06/05/25 16:44	10
2,2,4-Trimethylpentane	8.4 J		9.3	3.3	ug/m3			06/05/25 16:44	10
Benzene	6.4	U	6.4	1.6	ug/m3			06/05/25 16:44	10
1,2-Dichloroethane	8.1	U	8.1	3.0	ug/m3			06/05/25 16:44	10
n-Heptane	8.2	U	8.2	3.5	ug/m3			06/05/25 16:44	10
Trichloroethene	2.9		2.0	1.6	ug/m3			06/05/25 16:44	10
Methyl methacrylate	20	U	20	5.3	ug/m3			06/05/25 16:44	10
1,2-Dichloropropane	9.2	U	9.2	2.5	ug/m3			06/05/25 16:44	10
1,4-Dioxane	180	U	180	6.8	ug/m3			06/05/25 16:44	10
Bromodichloromethane	13	U	13	3.9	ug/m3			06/05/25 16:44	10
cis-1,3-Dichloropropene	9.1	U	9.1	2.5	ug/m3			06/05/25 16:44	10
4-Methyl-2-pentanone (Methyl isobutyl ketone)	20	U	20	7.8	ug/m3			06/05/25 16:44	10
Toluene	4.6 J		7.5	2.0	ug/m3			06/05/25 16:44	10
trans-1,3-Dichloropropene	9.1	U	9.1	2.8	ug/m3			06/05/25 16:44	10
1,1,2-Trichloroethane	11	U	11	2.9	ug/m3			06/05/25 16:44	10
Tetrachloroethene	14	U	14	2.4	ug/m3			06/05/25 16:44	10
Methyl Butyl Ketone (2-Hexanone)	20	U	20	8.2	ug/m3			06/05/25 16:44	10
Dibromochloromethane	17	U	17	4.5	ug/m3			06/05/25 16:44	10
1,2-Dibromoethane	15	U	15	3.5	ug/m3			06/05/25 16:44	10
Chlorobenzene	9.2	U	9.2	2.2	ug/m3			06/05/25 16:44	10
Ethylbenzene	8.7	U	8.7	2.2	ug/m3			06/05/25 16:44	10
m,p-Xylene	22	U	22	0.61	ug/m3			06/05/25 16:44	10
o-Xylene	8.7	U	8.7	3.0	ug/m3			06/05/25 16:44	10
Styrene	8.5	U	8.5	2.4	ug/m3			06/05/25 16:44	10
Bromoform	21	U	21	6.0	ug/m3			06/05/25 16:44	10
Cumene	9.8	U	9.8	3.5	ug/m3			06/05/25 16:44	10
1,1,2,2-Tetrachloroethane	14	U	14	4.2	ug/m3			06/05/25 16:44	10
n-Propylbenzene	9.8	U	9.8	3.0	ug/m3			06/05/25 16:44	10
4-Ethyltoluene	9.8	U	9.8	3.3	ug/m3			06/05/25 16:44	10
1,3,5-Trimethylbenzene	9.8	U	9.8	3.3	ug/m3			06/05/25 16:44	10
2-Chlorotoluene	10	U	10	3.0	ug/m3			06/05/25 16:44	10
tert-Butylbenzene	11	U	11	3.8	ug/m3			06/05/25 16:44	10
1,2,4-Trimethylbenzene	9.8	U	9.8	4.0	ug/m3			06/05/25 16:44	10
sec-Butylbenzene	11	U	11	4.0	ug/m3			06/05/25 16:44	10
4-Isopropyltoluene	11	U	11	4.3	ug/m3			06/05/25 16:44	10
1,3-Dichlorobenzene	12	U	12	3.8	ug/m3			06/05/25 16:44	10
1,4-Dichlorobenzene	12	U	12	4.2	ug/m3			06/05/25 16:44	10
Benzyl chloride	10	U	10	3.8	ug/m3			06/05/25 16:44	10
n-Butylbenzene	11	U	11	3.8	ug/m3			06/05/25 16:44	10
1,2-Dichlorobenzene	12	U	12	4.0	ug/m3			06/05/25 16:44	10
1,2,4-Trichlorobenzene	37	U	37	22	ug/m3			06/05/25 16:44	10
Hexachlorobutadiene	21	U	21	8.3	ug/m3			06/05/25 16:44	10

Eurofins Burlington

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-3

Lab Sample ID: 200-78231-3

Date Collected: 05/30/25 11:56

Matrix: Air

Date Received: 06/02/25 10:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	20	U	20	5.8	ug/m3			06/05/25 16:44	10
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	5.0	U	5.0	2.2	ppb v/v			06/05/25 16:44	10
Chlorodifluoromethane	5.0	U	5.0	3.6	ppb v/v			06/05/25 16:44	10
1,2-Dichlorotetrafluoroethane	2.0	U	2.0	0.76	ppb v/v			06/05/25 16:44	10
Chloromethane	5.0	U	5.0	3.3	ppb v/v			06/05/25 16:44	10
n-Butane	5.4		5.0	3.1	ppb v/v			06/05/25 16:44	10
Vinyl chloride	0.78	U	0.78	0.29	ppb v/v			06/05/25 16:44	10
1,3-Butadiene	2.0	U	2.0	0.40	ppb v/v			06/05/25 16:44	10
Bromomethane	2.0	U	2.0	0.62	ppb v/v			06/05/25 16:44	10
Chloroethane	5.0	U	5.0	1.6	ppb v/v			06/05/25 16:44	10
Bromoethene(Vinyl Bromide)	2.0	U	2.0	0.48	ppb v/v			06/05/25 16:44	10
Trichlorofluoromethane	2.0	U	2.0	0.77	ppb v/v			06/05/25 16:44	10
1,1,2-Trichlorotrifluoroethane	2.0	U	2.0	0.57	ppb v/v			06/05/25 16:44	10
1,1-Dichloroethene	0.50	U	0.50	0.35	ppb v/v			06/05/25 16:44	10
Acetone	870	E	50	19	ppb v/v			06/05/25 16:44	10
Isopropyl alcohol	50	U	50	22	ppb v/v			06/05/25 16:44	10
Carbon disulfide	3.8	J B	5.0	1.8	ppb v/v			06/05/25 16:44	10
3-Chloropropene	5.0	U	5.0	0.81	ppb v/v			06/05/25 16:44	10
Methylene Chloride	5.0	U	5.0	1.9	ppb v/v			06/05/25 16:44	10
tert-Butyl alcohol	50	U	50	16	ppb v/v			06/05/25 16:44	10
Methyl tert-butyl ether	2.0	U	2.0	0.66	ppb v/v			06/05/25 16:44	10
trans-1,2-Dichloroethene	2.0	U	2.0	0.20	ppb v/v			06/05/25 16:44	10
n-Hexane	5.0	U	5.0	1.6	ppb v/v			06/05/25 16:44	10
1,1-Dichloroethane	2.0	U	2.0	0.18	ppb v/v			06/05/25 16:44	10
Methyl Ethyl Ketone (2-Butanone)	5.5		5.0	1.4	ppb v/v			06/05/25 16:44	10
cis-1,2-Dichloroethene	0.50	U	0.50	0.32	ppb v/v			06/05/25 16:44	10
Chloroform	2.0	U	2.0	0.59	ppb v/v			06/05/25 16:44	10
Tetrahydrofuran	50	U	50	17	ppb v/v			06/05/25 16:44	10
1,1,1-Trichloroethane	2.0	U	2.0	0.73	ppb v/v			06/05/25 16:44	10
Cyclohexane	1.3	J	2.0	0.52	ppb v/v			06/05/25 16:44	10
Carbon tetrachloride	0.35	U	0.35	0.24	ppb v/v			06/05/25 16:44	10
2,2,4-Trimethylpentane	1.8	J	2.0	0.71	ppb v/v			06/05/25 16:44	10
Benzene	2.0	U	2.0	0.51	ppb v/v			06/05/25 16:44	10
1,2-Dichloroethane	2.0	U	2.0	0.74	ppb v/v			06/05/25 16:44	10
n-Heptane	2.0	U	2.0	0.86	ppb v/v			06/05/25 16:44	10
Trichloroethene	0.55		0.37	0.29	ppb v/v			06/05/25 16:44	10
Methyl methacrylate	5.0	U	5.0	1.3	ppb v/v			06/05/25 16:44	10
1,2-Dichloropropane	2.0	U	2.0	0.55	ppb v/v			06/05/25 16:44	10
1,4-Dioxane	50	U	50	1.9	ppb v/v			06/05/25 16:44	10
Bromodichloromethane	2.0	U	2.0	0.58	ppb v/v			06/05/25 16:44	10
cis-1,3-Dichloropropene	2.0	U	2.0	0.56	ppb v/v			06/05/25 16:44	10
4-Methyl-2-pentanone (Methyl isobutyl ketone)	5.0	U	5.0	1.9	ppb v/v			06/05/25 16:44	10
Toluene	1.2	J	2.0	0.54	ppb v/v			06/05/25 16:44	10
trans-1,3-Dichloropropene	2.0	U	2.0	0.62	ppb v/v			06/05/25 16:44	10
1,1,2-Trichloroethane	2.0	U	2.0	0.53	ppb v/v			06/05/25 16:44	10
Tetrachloroethene	2.0	U	2.0	0.36	ppb v/v			06/05/25 16:44	10

Eurofins Burlington

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-3

Lab Sample ID: 200-78231-3

Date Collected: 05/30/25 11:56

Matrix: Air

Date Received: 06/02/25 10:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Butyl Ketone (2-Hexanone)	5.0	U	5.0	2.0	ppb v/v			06/05/25 16:44	10
Dibromochloromethane	2.0	U	2.0	0.53	ppb v/v			06/05/25 16:44	10
1,2-Dibromoethane	2.0	U	2.0	0.45	ppb v/v			06/05/25 16:44	10
Chlorobenzene	2.0	U	2.0	0.47	ppb v/v			06/05/25 16:44	10
Ethylbenzene	2.0	U	2.0	0.51	ppb v/v			06/05/25 16:44	10
m,p-Xylene	5.0	U	5.0	0.14	ppb v/v			06/05/25 16:44	10
o-Xylene	2.0	U	2.0	0.69	ppb v/v			06/05/25 16:44	10
Styrene	2.0	U	2.0	0.56	ppb v/v			06/05/25 16:44	10
Bromoform	2.0	U	2.0	0.58	ppb v/v			06/05/25 16:44	10
Cumene	2.0	U	2.0	0.72	ppb v/v			06/05/25 16:44	10
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.61	ppb v/v			06/05/25 16:44	10
n-Propylbenzene	2.0	U	2.0	0.62	ppb v/v			06/05/25 16:44	10
4-Ethyltoluene	2.0	U	2.0	0.68	ppb v/v			06/05/25 16:44	10
1,3,5-Trimethylbenzene	2.0	U	2.0	0.68	ppb v/v			06/05/25 16:44	10
2-Chlorotoluene	2.0	U	2.0	0.58	ppb v/v			06/05/25 16:44	10
tert-Butylbenzene	2.0	U	2.0	0.70	ppb v/v			06/05/25 16:44	10
1,2,4-Trimethylbenzene	2.0	U	2.0	0.82	ppb v/v			06/05/25 16:44	10
sec-Butylbenzene	2.0	U	2.0	0.72	ppb v/v			06/05/25 16:44	10
4-Isopropyltoluene	2.0	U	2.0	0.78	ppb v/v			06/05/25 16:44	10
1,3-Dichlorobenzene	2.0	U	2.0	0.63	ppb v/v			06/05/25 16:44	10
1,4-Dichlorobenzene	2.0	U	2.0	0.70	ppb v/v			06/05/25 16:44	10
Benzyl chloride	2.0	U	2.0	0.74	ppb v/v			06/05/25 16:44	10
n-Butylbenzene	2.0	U	2.0	0.70	ppb v/v			06/05/25 16:44	10
1,2-Dichlorobenzene	2.0	U	2.0	0.66	ppb v/v			06/05/25 16:44	10
1,2,4-Trichlorobenzene	5.0	U	5.0	3.0	ppb v/v			06/05/25 16:44	10
Hexachlorobutadiene	2.0	U	2.0	0.78	ppb v/v			06/05/25 16:44	10
Naphthalene	3.8	U	3.8	1.1	ppb v/v			06/05/25 16:44	10

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	100	U	100	44	ug/m3			06/06/25 02:25	40.4
Chlorodifluoromethane	71	U	71	51	ug/m3			06/06/25 02:25	40.4
1,2-Dichlorotetrafluoroethane	56	U	56	21	ug/m3			06/06/25 02:25	40.4
Chloromethane	42	U	42	28	ug/m3			06/06/25 02:25	40.4
n-Butane	48	U	48	30	ug/m3			06/06/25 02:25	40.4
Vinyl chloride	8.1	U	8.1	3.0	ug/m3			06/06/25 02:25	40.4
1,3-Butadiene	18	U	18	3.6	ug/m3			06/06/25 02:25	40.4
Bromomethane	31	U	31	9.7	ug/m3			06/06/25 02:25	40.4
Chloroethane	53	U	53	17	ug/m3			06/06/25 02:25	40.4
Bromoethene(Vinyl Bromide)	35	U	35	8.5	ug/m3			06/06/25 02:25	40.4
Trichlorofluoromethane	45	U	45	17	ug/m3			06/06/25 02:25	40.4
1,1,2-Trichlorotrifluoroethane	62	U	62	18	ug/m3			06/06/25 02:25	40.4
1,1-Dichloroethene	8.1	U	8.1	5.6	ug/m3			06/06/25 02:25	40.4
Acetone	1700	D	480	180	ug/m3			06/06/25 02:25	40.4
Isopropyl alcohol	500	U	500	220	ug/m3			06/06/25 02:25	40.4
Carbon disulfide	25	J B D	63	23	ug/m3			06/06/25 02:25	40.4
3-Chloropropene	63	U	63	10	ug/m3			06/06/25 02:25	40.4
Methylene Chloride	70	U	70	27	ug/m3			06/06/25 02:25	40.4
tert-Butyl alcohol	610	U	610	200	ug/m3			06/06/25 02:25	40.4

Eurofins Burlington

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-3

Lab Sample ID: 200-78231-3

Date Collected: 05/30/25 11:56

Matrix: Air

Date Received: 06/02/25 10:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	29	U	29	9.6	ug/m3			06/06/25 02:25	40.4
trans-1,2-Dichloroethene	32	U	32	3.2	ug/m3			06/06/25 02:25	40.4
n-Hexane	71	U	71	23	ug/m3			06/06/25 02:25	40.4
1,1-Dichloroethane	33	U	33	2.9	ug/m3			06/06/25 02:25	40.4
Methyl Ethyl Ketone (2-Butanone)	60	U	60	17	ug/m3			06/06/25 02:25	40.4
cis-1,2-Dichloroethene	8.1	U	8.1	5.1	ug/m3			06/06/25 02:25	40.4
Chloroform	39	U	39	12	ug/m3			06/06/25 02:25	40.4
Tetrahydrofuran	600	U	600	200	ug/m3			06/06/25 02:25	40.4
1,1,1-Trichloroethane	44	U	44	16	ug/m3			06/06/25 02:25	40.4
Cyclohexane	28	U	28	7.2	ug/m3			06/06/25 02:25	40.4
Carbon tetrachloride	8.9	U	8.9	6.1	ug/m3			06/06/25 02:25	40.4
2,2,4-Trimethylpentane	38	U	38	13	ug/m3			06/06/25 02:25	40.4
Benzene	26	U	26	6.6	ug/m3			06/06/25 02:25	40.4
1,2-Dichloroethane	33	U	33	12	ug/m3			06/06/25 02:25	40.4
n-Heptane	33	U	33	14	ug/m3			06/06/25 02:25	40.4
Trichloroethene	8.1	U	8.1	6.3	ug/m3			06/06/25 02:25	40.4
Methyl methacrylate	83	U	83	22	ug/m3			06/06/25 02:25	40.4
1,2-Dichloropropane	37	U	37	10	ug/m3			06/06/25 02:25	40.4
1,4-Dioxane	730	U	730	28	ug/m3			06/06/25 02:25	40.4
Bromodichloromethane	54	U	54	16	ug/m3			06/06/25 02:25	40.4
cis-1,3-Dichloropropene	37	U	37	10	ug/m3			06/06/25 02:25	40.4
4-Methyl-2-pentanone (Methyl isobutyl ketone)	83	U	83	31	ug/m3			06/06/25 02:25	40.4
Toluene	30	U	30	8.2	ug/m3			06/06/25 02:25	40.4
trans-1,3-Dichloropropene	37	U	37	11	ug/m3			06/06/25 02:25	40.4
1,1,2-Trichloroethane	44	U	44	12	ug/m3			06/06/25 02:25	40.4
Tetrachloroethene	55	U	55	9.9	ug/m3			06/06/25 02:25	40.4
Methyl Butyl Ketone (2-Hexanone)	83	U	83	33	ug/m3			06/06/25 02:25	40.4
Dibromochloromethane	69	U	69	18	ug/m3			06/06/25 02:25	40.4
1,2-Dibromoethane	62	U	62	14	ug/m3			06/06/25 02:25	40.4
Chlorobenzene	37	U	37	8.7	ug/m3			06/06/25 02:25	40.4
Ethylbenzene	35	U	35	8.9	ug/m3			06/06/25 02:25	40.4
m,p-Xylene	88	U	88	2.5	ug/m3			06/06/25 02:25	40.4
o-Xylene	35	U	35	12	ug/m3			06/06/25 02:25	40.4
Styrene	34	U	34	9.6	ug/m3			06/06/25 02:25	40.4
Bromoform	84	U	84	24	ug/m3			06/06/25 02:25	40.4
Cumene	40	U	40	14	ug/m3			06/06/25 02:25	40.4
1,1,2,2-Tetrachloroethane	55	U	55	17	ug/m3			06/06/25 02:25	40.4
n-Propylbenzene	40	U	40	12	ug/m3			06/06/25 02:25	40.4
4-Ethyltoluene	40	U	40	14	ug/m3			06/06/25 02:25	40.4
1,3,5-Trimethylbenzene	40	U	40	14	ug/m3			06/06/25 02:25	40.4
2-Chlorotoluene	42	U	42	12	ug/m3			06/06/25 02:25	40.4
tert-Butylbenzene	44	U	44	16	ug/m3			06/06/25 02:25	40.4
1,2,4-Trimethylbenzene	40	U	40	16	ug/m3			06/06/25 02:25	40.4
sec-Butylbenzene	44	U	44	16	ug/m3			06/06/25 02:25	40.4
4-Isopropyltoluene	44	U	44	17	ug/m3			06/06/25 02:25	40.4
1,3-Dichlorobenzene	49	U	49	15	ug/m3			06/06/25 02:25	40.4
1,4-Dichlorobenzene	49	U	49	17	ug/m3			06/06/25 02:25	40.4
Benzyl chloride	42	U	42	15	ug/m3			06/06/25 02:25	40.4

Eurofins Burlington

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-3

Lab Sample ID: 200-78231-3

Date Collected: 05/30/25 11:56

Matrix: Air

Date Received: 06/02/25 10:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	44	U	44	16	ug/m3			06/06/25 02:25	40.4
1,2-Dichlorobenzene	49	U	49	16	ug/m3			06/06/25 02:25	40.4
1,2,4-Trichlorobenzene	150	U	150	90	ug/m3			06/06/25 02:25	40.4
Hexachlorobutadiene	86	U	86	34	ug/m3			06/06/25 02:25	40.4
Naphthalene	81	U	81	23	ug/m3			06/06/25 02:25	40.4
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	20	U	20	8.9	ppb v/v			06/06/25 02:25	40.4
Chlorodifluoromethane	20	U	20	15	ppb v/v			06/06/25 02:25	40.4
1,2-Dichlorotetrafluoroethane	8.1	U	8.1	3.1	ppb v/v			06/06/25 02:25	40.4
Chloromethane	20	U	20	13	ppb v/v			06/06/25 02:25	40.4
n-Butane	20	U	20	13	ppb v/v			06/06/25 02:25	40.4
Vinyl chloride	3.2	U	3.2	1.2	ppb v/v			06/06/25 02:25	40.4
1,3-Butadiene	8.1	U	8.1	1.6	ppb v/v			06/06/25 02:25	40.4
Bromomethane	8.1	U	8.1	2.5	ppb v/v			06/06/25 02:25	40.4
Chloroethane	20	U	20	6.5	ppb v/v			06/06/25 02:25	40.4
Bromoethene(Vinyl Bromide)	8.1	U	8.1	1.9	ppb v/v			06/06/25 02:25	40.4
Trichlorofluoromethane	8.1	U	8.1	3.1	ppb v/v			06/06/25 02:25	40.4
1,1,2-Trichlorotrifluoroethane	8.1	U	8.1	2.3	ppb v/v			06/06/25 02:25	40.4
1,1-Dichloroethene	2.0	U	2.0	1.4	ppb v/v			06/06/25 02:25	40.4
Acetone	710	D	200	77	ppb v/v			06/06/25 02:25	40.4
Isopropyl alcohol	200	U	200	89	ppb v/v			06/06/25 02:25	40.4
Carbon disulfide	8.1	J B D	20	7.3	ppb v/v			06/06/25 02:25	40.4
3-Chloropropene	20	U	20	3.3	ppb v/v			06/06/25 02:25	40.4
Methylene Chloride	20	U	20	7.7	ppb v/v			06/06/25 02:25	40.4
tert-Butyl alcohol	200	U	200	65	ppb v/v			06/06/25 02:25	40.4
Methyl tert-butyl ether	8.1	U	8.1	2.7	ppb v/v			06/06/25 02:25	40.4
trans-1,2-Dichloroethene	8.1	U	8.1	0.81	ppb v/v			06/06/25 02:25	40.4
n-Hexane	20	U	20	6.5	ppb v/v			06/06/25 02:25	40.4
1,1-Dichloroethane	8.1	U	8.1	0.73	ppb v/v			06/06/25 02:25	40.4
Methyl Ethyl Ketone (2-Butanone)	20	U	20	5.7	ppb v/v			06/06/25 02:25	40.4
cis-1,2-Dichloroethene	2.0	U	2.0	1.3	ppb v/v			06/06/25 02:25	40.4
Chloroform	8.1	U	8.1	2.4	ppb v/v			06/06/25 02:25	40.4
Tetrahydrofuran	200	U	200	69	ppb v/v			06/06/25 02:25	40.4
1,1,1-Trichloroethane	8.1	U	8.1	2.9	ppb v/v			06/06/25 02:25	40.4
Cyclohexane	8.1	U	8.1	2.1	ppb v/v			06/06/25 02:25	40.4
Carbon tetrachloride	1.4	U	1.4	0.97	ppb v/v			06/06/25 02:25	40.4
2,2,4-Trimethylpentane	8.1	U	8.1	2.9	ppb v/v			06/06/25 02:25	40.4
Benzene	8.1	U	8.1	2.1	ppb v/v			06/06/25 02:25	40.4
1,2-Dichloroethane	8.1	U	8.1	3.0	ppb v/v			06/06/25 02:25	40.4
n-Heptane	8.1	U	8.1	3.5	ppb v/v			06/06/25 02:25	40.4
Trichloroethene	1.5	U	1.5	1.2	ppb v/v			06/06/25 02:25	40.4
Methyl methacrylate	20	U	20	5.3	ppb v/v			06/06/25 02:25	40.4
1,2-Dichloropropane	8.1	U	8.1	2.2	ppb v/v			06/06/25 02:25	40.4
1,4-Dioxane	200	U	200	7.7	ppb v/v			06/06/25 02:25	40.4
Bromodichloromethane	8.1	U	8.1	2.3	ppb v/v			06/06/25 02:25	40.4
cis-1,3-Dichloropropene	8.1	U	8.1	2.3	ppb v/v			06/06/25 02:25	40.4
4-Methyl-2-pentanone (Methyl isobutyl ketone)	20	U	20	7.7	ppb v/v			06/06/25 02:25	40.4

Eurofins Burlington

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-3

Lab Sample ID: 200-78231-3

Date Collected: 05/30/25 11:56

Matrix: Air

Date Received: 06/02/25 10:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	8.1	U	8.1	2.2	ppb v/v			06/06/25 02:25	40.4
trans-1,3-Dichloropropene	8.1	U	8.1	2.5	ppb v/v			06/06/25 02:25	40.4
1,1,2-Trichloroethane	8.1	U	8.1	2.1	ppb v/v			06/06/25 02:25	40.4
Tetrachloroethene	8.1	U	8.1	1.5	ppb v/v			06/06/25 02:25	40.4
Methyl Butyl Ketone (2-Hexanone)	20	U	20	8.1	ppb v/v			06/06/25 02:25	40.4
Dibromochloromethane	8.1	U	8.1	2.1	ppb v/v			06/06/25 02:25	40.4
1,2-Dibromoethane	8.1	U	8.1	1.8	ppb v/v			06/06/25 02:25	40.4
Chlorobenzene	8.1	U	8.1	1.9	ppb v/v			06/06/25 02:25	40.4
Ethylbenzene	8.1	U	8.1	2.1	ppb v/v			06/06/25 02:25	40.4
m,p-Xylene	20	U	20	0.57	ppb v/v			06/06/25 02:25	40.4
o-Xylene	8.1	U	8.1	2.8	ppb v/v			06/06/25 02:25	40.4
Styrene	8.1	U	8.1	2.3	ppb v/v			06/06/25 02:25	40.4
Bromoform	8.1	U	8.1	2.3	ppb v/v			06/06/25 02:25	40.4
Cumene	8.1	U	8.1	2.9	ppb v/v			06/06/25 02:25	40.4
1,1,2,2-Tetrachloroethane	8.1	U	8.1	2.5	ppb v/v			06/06/25 02:25	40.4
n-Propylbenzene	8.1	U	8.1	2.5	ppb v/v			06/06/25 02:25	40.4
4-Ethyltoluene	8.1	U	8.1	2.7	ppb v/v			06/06/25 02:25	40.4
1,3,5-Trimethylbenzene	8.1	U	8.1	2.7	ppb v/v			06/06/25 02:25	40.4
2-Chlorotoluene	8.1	U	8.1	2.3	ppb v/v			06/06/25 02:25	40.4
tert-Butylbenzene	8.1	U	8.1	2.8	ppb v/v			06/06/25 02:25	40.4
1,2,4-Trimethylbenzene	8.1	U	8.1	3.3	ppb v/v			06/06/25 02:25	40.4
sec-Butylbenzene	8.1	U	8.1	2.9	ppb v/v			06/06/25 02:25	40.4
4-Isopropyltoluene	8.1	U	8.1	3.2	ppb v/v			06/06/25 02:25	40.4
1,3-Dichlorobenzene	8.1	U	8.1	2.5	ppb v/v			06/06/25 02:25	40.4
1,4-Dichlorobenzene	8.1	U	8.1	2.8	ppb v/v			06/06/25 02:25	40.4
Benzyl chloride	8.1	U	8.1	3.0	ppb v/v			06/06/25 02:25	40.4
n-Butylbenzene	8.1	U	8.1	2.8	ppb v/v			06/06/25 02:25	40.4
1,2-Dichlorobenzene	8.1	U	8.1	2.7	ppb v/v			06/06/25 02:25	40.4
1,2,4-Trichlorobenzene	20	U	20	12	ppb v/v			06/06/25 02:25	40.4
Hexachlorobutadiene	8.1	U	8.1	3.2	ppb v/v			06/06/25 02:25	40.4
Naphthalene	15	U	15	4.4	ppb v/v			06/06/25 02:25	40.4

Client Sample ID: RI-VP-4

Lab Sample ID: 200-78231-4

Date Collected: 05/30/25 11:49

Matrix: Air

Date Received: 06/02/25 10:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	2.6		2.5	1.1	ug/m3			06/05/25 17:44	1
Chlorodifluoromethane	1.8	U	1.8	1.3	ug/m3			06/05/25 17:44	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.53	ug/m3			06/05/25 17:44	1
Chloromethane	1.7		1.0	0.68	ug/m3			06/05/25 17:44	1
n-Butane	9.6		1.2	0.74	ug/m3			06/05/25 17:44	1
Vinyl chloride	0.20	U	0.20	0.074	ug/m3			06/05/25 17:44	1
1,3-Butadiene	0.44	U	0.44	0.088	ug/m3			06/05/25 17:44	1
Bromomethane	0.78	U	0.78	0.24	ug/m3			06/05/25 17:44	1
Chloroethane	1.3	U	1.3	0.42	ug/m3			06/05/25 17:44	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.21	ug/m3			06/05/25 17:44	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-4

Lab Sample ID: 200-78231-4

Date Collected: 05/30/25 11:49

Matrix: Air

Date Received: 06/02/25 10:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.4		1.1	0.43	ug/m3			06/05/25 17:44	1
1,1,2-Trichlorotrifluoroethane	0.54	J	1.5	0.44	ug/m3			06/05/25 17:44	1
1,1-Dichloroethene	0.20	U	0.20	0.14	ug/m3			06/05/25 17:44	1
Acetone	840	E	12	4.5	ug/m3			06/05/25 17:44	1
Isopropyl alcohol	10	J	12	5.4	ug/m3			06/05/25 17:44	1
Carbon disulfide	4.2	B	1.6	0.56	ug/m3			06/05/25 17:44	1
3-Chloropropene	1.6	U	1.6	0.25	ug/m3			06/05/25 17:44	1
Methylene Chloride	1.7	U	1.7	0.66	ug/m3			06/05/25 17:44	1
tert-Butyl alcohol	15	U	15	4.9	ug/m3			06/05/25 17:44	1
Methyl tert-butyl ether	0.72	U	0.72	0.24	ug/m3			06/05/25 17:44	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.079	ug/m3			06/05/25 17:44	1
n-Hexane	0.89	J	1.8	0.56	ug/m3			06/05/25 17:44	1
1,1-Dichloroethane	0.81	U	0.81	0.073	ug/m3			06/05/25 17:44	1
Methyl Ethyl Ketone (2-Butanone)	45		1.5	0.41	ug/m3			06/05/25 17:44	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.13	ug/m3			06/05/25 17:44	1
Chloroform	0.98	U	0.98	0.29	ug/m3			06/05/25 17:44	1
Tetrahydrofuran	15	U	15	5.0	ug/m3			06/05/25 17:44	1
1,1,1-Trichloroethane	1.1	U	1.1	0.40	ug/m3			06/05/25 17:44	1
Cyclohexane	1.3		0.69	0.18	ug/m3			06/05/25 17:44	1
Carbon tetrachloride	0.46		0.22	0.15	ug/m3			06/05/25 17:44	1
2,2,4-Trimethylpentane	1.8		0.93	0.33	ug/m3			06/05/25 17:44	1
Benzene	0.47	J	0.64	0.16	ug/m3			06/05/25 17:44	1
1,2-Dichloroethane	0.81	U	0.81	0.30	ug/m3			06/05/25 17:44	1
n-Heptane	2.0		0.82	0.35	ug/m3			06/05/25 17:44	1
Trichloroethene	2.7		0.20	0.16	ug/m3			06/05/25 17:44	1
Methyl methacrylate	2.0	U	2.0	0.53	ug/m3			06/05/25 17:44	1
1,2-Dichloropropane	0.92	U	0.92	0.25	ug/m3			06/05/25 17:44	1
1,4-Dioxane	18	U	18	0.68	ug/m3			06/05/25 17:44	1
Bromodichloromethane	1.3	U	1.3	0.39	ug/m3			06/05/25 17:44	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.25	ug/m3			06/05/25 17:44	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	2.0	U	2.0	0.78	ug/m3			06/05/25 17:44	1
Toluene	5.6		0.75	0.20	ug/m3			06/05/25 17:44	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.28	ug/m3			06/05/25 17:44	1
1,1,2-Trichloroethane	1.1	U	1.1	0.29	ug/m3			06/05/25 17:44	1
Tetrachloroethene	0.93	J	1.4	0.24	ug/m3			06/05/25 17:44	1
Methyl Butyl Ketone (2-Hexanone)	4.3		2.0	0.82	ug/m3			06/05/25 17:44	1
Dibromochloromethane	1.7	U	1.7	0.45	ug/m3			06/05/25 17:44	1
1,2-Dibromoethane	1.5	U	1.5	0.35	ug/m3			06/05/25 17:44	1
Chlorobenzene	0.92	U	0.92	0.22	ug/m3			06/05/25 17:44	1
Ethylbenzene	3.2		0.87	0.22	ug/m3			06/05/25 17:44	1
m,p-Xylene	8.3		2.2	0.061	ug/m3			06/05/25 17:44	1
o-Xylene	3.8		0.87	0.30	ug/m3			06/05/25 17:44	1
Styrene	0.85	U	0.85	0.24	ug/m3			06/05/25 17:44	1
Bromoform	2.1	U	2.1	0.60	ug/m3			06/05/25 17:44	1
Cumene	0.88	J	0.98	0.35	ug/m3			06/05/25 17:44	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.42	ug/m3			06/05/25 17:44	1
n-Propylbenzene	2.0		0.98	0.30	ug/m3			06/05/25 17:44	1
4-Ethyltoluene	2.6		0.98	0.33	ug/m3			06/05/25 17:44	1

Eurofins Burlington

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-4

Lab Sample ID: 200-78231-4

Date Collected: 05/30/25 11:49

Matrix: Air

Date Received: 06/02/25 10:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	2.1		0.98	0.33	ug/m3			06/05/25 17:44	1
2-Chlorotoluene	1.0	U	1.0	0.30	ug/m3			06/05/25 17:44	1
tert-Butylbenzene	1.1	U	1.1	0.38	ug/m3			06/05/25 17:44	1
1,2,4-Trimethylbenzene	8.1		0.98	0.40	ug/m3			06/05/25 17:44	1
sec-Butylbenzene	0.69	J	1.1	0.40	ug/m3			06/05/25 17:44	1
4-Isopropyltoluene	0.54	J	1.1	0.43	ug/m3			06/05/25 17:44	1
1,3-Dichlorobenzene	1.2	U	1.2	0.38	ug/m3			06/05/25 17:44	1
1,4-Dichlorobenzene	1.2	U	1.2	0.42	ug/m3			06/05/25 17:44	1
Benzyl chloride	1.0	U	1.0	0.38	ug/m3			06/05/25 17:44	1
n-Butylbenzene	1.2		1.1	0.38	ug/m3			06/05/25 17:44	1
1,2-Dichlorobenzene	1.2	U	1.2	0.40	ug/m3			06/05/25 17:44	1
1,2,4-Trichlorobenzene	3.7	U	3.7	2.2	ug/m3			06/05/25 17:44	1
Hexachlorobutadiene	2.1	U	2.1	0.83	ug/m3			06/05/25 17:44	1
Naphthalene	2.0	U	2.0	0.58	ug/m3			06/05/25 17:44	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.53		0.50	0.22	ppb v/v			06/05/25 17:44	1
Chlorodifluoromethane	0.50	U	0.50	0.36	ppb v/v			06/05/25 17:44	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.076	ppb v/v			06/05/25 17:44	1
Chloromethane	0.83		0.50	0.33	ppb v/v			06/05/25 17:44	1
n-Butane	4.1		0.50	0.31	ppb v/v			06/05/25 17:44	1
Vinyl chloride	0.078	U	0.078	0.029	ppb v/v			06/05/25 17:44	1
1,3-Butadiene	0.20	U	0.20	0.040	ppb v/v			06/05/25 17:44	1
Bromomethane	0.20	U	0.20	0.062	ppb v/v			06/05/25 17:44	1
Chloroethane	0.50	U	0.50	0.16	ppb v/v			06/05/25 17:44	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.048	ppb v/v			06/05/25 17:44	1
Trichlorofluoromethane	0.25		0.20	0.077	ppb v/v			06/05/25 17:44	1
1,1,2-Trichlorotrifluoroethane	0.070	J	0.20	0.057	ppb v/v			06/05/25 17:44	1
1,1-Dichloroethene	0.050	U	0.050	0.035	ppb v/v			06/05/25 17:44	1
Acetone	350	E	5.0	1.9	ppb v/v			06/05/25 17:44	1
Isopropyl alcohol	4.1	J	5.0	2.2	ppb v/v			06/05/25 17:44	1
Carbon disulfide	1.3	B	0.50	0.18	ppb v/v			06/05/25 17:44	1
3-Chloropropene	0.50	U	0.50	0.081	ppb v/v			06/05/25 17:44	1
Methylene Chloride	0.50	U	0.50	0.19	ppb v/v			06/05/25 17:44	1
tert-Butyl alcohol	5.0	U	5.0	1.6	ppb v/v			06/05/25 17:44	1
Methyl tert-butyl ether	0.20	U	0.20	0.066	ppb v/v			06/05/25 17:44	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.020	ppb v/v			06/05/25 17:44	1
n-Hexane	0.25	J	0.50	0.16	ppb v/v			06/05/25 17:44	1
1,1-Dichloroethane	0.20	U	0.20	0.018	ppb v/v			06/05/25 17:44	1
Methyl Ethyl Ketone (2-Butanone)	15		0.50	0.14	ppb v/v			06/05/25 17:44	1
cis-1,2-Dichloroethene	0.050	U	0.050	0.032	ppb v/v			06/05/25 17:44	1
Chloroform	0.20	U	0.20	0.059	ppb v/v			06/05/25 17:44	1
Tetrahydrofuran	5.0	U	5.0	1.7	ppb v/v			06/05/25 17:44	1
1,1,1-Trichloroethane	0.20	U	0.20	0.073	ppb v/v			06/05/25 17:44	1
Cyclohexane	0.37		0.20	0.052	ppb v/v			06/05/25 17:44	1
Carbon tetrachloride	0.073		0.035	0.024	ppb v/v			06/05/25 17:44	1
2,2,4-Trimethylpentane	0.39		0.20	0.071	ppb v/v			06/05/25 17:44	1
Benzene	0.15	J	0.20	0.051	ppb v/v			06/05/25 17:44	1
1,2-Dichloroethane	0.20	U	0.20	0.074	ppb v/v			06/05/25 17:44	1

Eurofins Burlington

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-4

Lab Sample ID: 200-78231-4

Date Collected: 05/30/25 11:49

Matrix: Air

Date Received: 06/02/25 10:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Heptane	0.49		0.20	0.086	ppb v/v			06/05/25 17:44	1
Trichloroethene	0.51		0.037	0.029	ppb v/v			06/05/25 17:44	1
Methyl methacrylate	0.50	U	0.50	0.13	ppb v/v			06/05/25 17:44	1
1,2-Dichloropropane	0.20	U	0.20	0.055	ppb v/v			06/05/25 17:44	1
1,4-Dioxane	5.0	U	5.0	0.19	ppb v/v			06/05/25 17:44	1
Bromodichloromethane	0.20	U	0.20	0.058	ppb v/v			06/05/25 17:44	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.056	ppb v/v			06/05/25 17:44	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	0.50	U	0.50	0.19	ppb v/v			06/05/25 17:44	1
Toluene	1.5		0.20	0.054	ppb v/v			06/05/25 17:44	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.062	ppb v/v			06/05/25 17:44	1
1,1,2-Trichloroethane	0.20	U	0.20	0.053	ppb v/v			06/05/25 17:44	1
Tetrachloroethene	0.14	J	0.20	0.036	ppb v/v			06/05/25 17:44	1
Methyl Butyl Ketone (2-Hexanone)	1.0		0.50	0.20	ppb v/v			06/05/25 17:44	1
Dibromochloromethane	0.20	U	0.20	0.053	ppb v/v			06/05/25 17:44	1
1,2-Dibromoethane	0.20	U	0.20	0.045	ppb v/v			06/05/25 17:44	1
Chlorobenzene	0.20	U	0.20	0.047	ppb v/v			06/05/25 17:44	1
Ethylbenzene	0.73		0.20	0.051	ppb v/v			06/05/25 17:44	1
m,p-Xylene	1.9		0.50	0.014	ppb v/v			06/05/25 17:44	1
o-Xylene	0.87		0.20	0.069	ppb v/v			06/05/25 17:44	1
Styrene	0.20	U	0.20	0.056	ppb v/v			06/05/25 17:44	1
Bromoform	0.20	U	0.20	0.058	ppb v/v			06/05/25 17:44	1
Cumene	0.18	J	0.20	0.072	ppb v/v			06/05/25 17:44	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.061	ppb v/v			06/05/25 17:44	1
n-Propylbenzene	0.41		0.20	0.062	ppb v/v			06/05/25 17:44	1
4-Ethyltoluene	0.53		0.20	0.068	ppb v/v			06/05/25 17:44	1
1,3,5-Trimethylbenzene	0.42		0.20	0.068	ppb v/v			06/05/25 17:44	1
2-Chlorotoluene	0.20	U	0.20	0.058	ppb v/v			06/05/25 17:44	1
tert-Butylbenzene	0.20	U	0.20	0.070	ppb v/v			06/05/25 17:44	1
1,2,4-Trimethylbenzene	1.7		0.20	0.082	ppb v/v			06/05/25 17:44	1
sec-Butylbenzene	0.13	J	0.20	0.072	ppb v/v			06/05/25 17:44	1
4-Isopropyltoluene	0.098	J	0.20	0.078	ppb v/v			06/05/25 17:44	1
1,3-Dichlorobenzene	0.20	U	0.20	0.063	ppb v/v			06/05/25 17:44	1
1,4-Dichlorobenzene	0.20	U	0.20	0.070	ppb v/v			06/05/25 17:44	1
Benzyl chloride	0.20	U	0.20	0.074	ppb v/v			06/05/25 17:44	1
n-Butylbenzene	0.21		0.20	0.070	ppb v/v			06/05/25 17:44	1
1,2-Dichlorobenzene	0.20	U	0.20	0.066	ppb v/v			06/05/25 17:44	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.30	ppb v/v			06/05/25 17:44	1
Hexachlorobutadiene	0.20	U	0.20	0.078	ppb v/v			06/05/25 17:44	1
Naphthalene	0.38	U	0.38	0.11	ppb v/v			06/05/25 17:44	1

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	25	U	25	11	ug/m3			06/05/25 18:42	10
Chlorodifluoromethane	18	U	18	13	ug/m3			06/05/25 18:42	10
1,2-Dichlorotetrafluoroethane	14	U	14	5.3	ug/m3			06/05/25 18:42	10
Chloromethane	10	U	10	6.8	ug/m3			06/05/25 18:42	10
n-Butane	11	J D	12	7.4	ug/m3			06/05/25 18:42	10
Vinyl chloride	2.0	U	2.0	0.74	ug/m3			06/05/25 18:42	10

Eurofins Burlington

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-4

Lab Sample ID: 200-78231-4

Date Collected: 05/30/25 11:49

Matrix: Air

Date Received: 06/02/25 10:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Butadiene	4.4	U	4.4	0.88	ug/m3			06/05/25 18:42	10
Bromomethane	7.8	U	7.8	2.4	ug/m3			06/05/25 18:42	10
Chloroethane	13	U	13	4.2	ug/m3			06/05/25 18:42	10
Bromoethene(Vinyl Bromide)	8.7	U	8.7	2.1	ug/m3			06/05/25 18:42	10
Trichlorofluoromethane	11	U	11	4.3	ug/m3			06/05/25 18:42	10
1,1,2-Trichlorotrifluoroethane	15	U	15	4.4	ug/m3			06/05/25 18:42	10
1,1-Dichloroethene	2.0	U	2.0	1.4	ug/m3			06/05/25 18:42	10
Acetone	730	D	120	45	ug/m3			06/05/25 18:42	10
Isopropyl alcohol	120	U	120	54	ug/m3			06/05/25 18:42	10
Carbon disulfide	10	J B D	16	5.6	ug/m3			06/05/25 18:42	10
3-Chloropropene	16	U	16	2.5	ug/m3			06/05/25 18:42	10
Methylene Chloride	17	U	17	6.6	ug/m3			06/05/25 18:42	10
tert-Butyl alcohol	150	U	150	49	ug/m3			06/05/25 18:42	10
Methyl tert-butyl ether	7.2	U	7.2	2.4	ug/m3			06/05/25 18:42	10
trans-1,2-Dichloroethene	7.9	U	7.9	0.79	ug/m3			06/05/25 18:42	10
n-Hexane	18	U	18	5.6	ug/m3			06/05/25 18:42	10
1,1-Dichloroethane	8.1	U	8.1	0.73	ug/m3			06/05/25 18:42	10
Methyl Ethyl Ketone (2-Butanone)	33	D	15	4.1	ug/m3			06/05/25 18:42	10
cis-1,2-Dichloroethene	2.0	U	2.0	1.3	ug/m3			06/05/25 18:42	10
Chloroform	9.8	U	9.8	2.9	ug/m3			06/05/25 18:42	10
Tetrahydrofuran	150	U	150	50	ug/m3			06/05/25 18:42	10
1,1,1-Trichloroethane	11	U	11	4.0	ug/m3			06/05/25 18:42	10
Cyclohexane	6.9	U	6.9	1.8	ug/m3			06/05/25 18:42	10
Carbon tetrachloride	2.2	U	2.2	1.5	ug/m3			06/05/25 18:42	10
2,2,4-Trimethylpentane	9.3	U	9.3	3.3	ug/m3			06/05/25 18:42	10
Benzene	6.4	U	6.4	1.6	ug/m3			06/05/25 18:42	10
1,2-Dichloroethane	8.1	U	8.1	3.0	ug/m3			06/05/25 18:42	10
n-Heptane	8.2	U	8.2	3.5	ug/m3			06/05/25 18:42	10
Trichloroethene	2.3	D	2.0	1.6	ug/m3			06/05/25 18:42	10
Methyl methacrylate	20	U	20	5.3	ug/m3			06/05/25 18:42	10
1,2-Dichloropropane	9.2	U	9.2	2.5	ug/m3			06/05/25 18:42	10
1,4-Dioxane	180	U	180	6.8	ug/m3			06/05/25 18:42	10
Bromodichloromethane	13	U	13	3.9	ug/m3			06/05/25 18:42	10
cis-1,3-Dichloropropene	9.1	U	9.1	2.5	ug/m3			06/05/25 18:42	10
4-Methyl-2-pentanone (Methyl isobutyl ketone)	20	U	20	7.8	ug/m3			06/05/25 18:42	10
Toluene	4.9	J D	7.5	2.0	ug/m3			06/05/25 18:42	10
trans-1,3-Dichloropropene	9.1	U	9.1	2.8	ug/m3			06/05/25 18:42	10
1,1,2-Trichloroethane	11	U	11	2.9	ug/m3			06/05/25 18:42	10
Tetrachloroethene	14	U	14	2.4	ug/m3			06/05/25 18:42	10
Methyl Butyl Ketone (2-Hexanone)	20	U	20	8.2	ug/m3			06/05/25 18:42	10
Dibromochloromethane	17	U	17	4.5	ug/m3			06/05/25 18:42	10
1,2-Dibromoethane	15	U	15	3.5	ug/m3			06/05/25 18:42	10
Chlorobenzene	9.2	U	9.2	2.2	ug/m3			06/05/25 18:42	10
Ethylbenzene	2.5	J D	8.7	2.2	ug/m3			06/05/25 18:42	10
m,p-Xylene	5.7	J D	22	0.61	ug/m3			06/05/25 18:42	10
o-Xylene	8.7	U	8.7	3.0	ug/m3			06/05/25 18:42	10
Styrene	8.5	U	8.5	2.4	ug/m3			06/05/25 18:42	10
Bromoform	21	U	21	6.0	ug/m3			06/05/25 18:42	10

Eurofins Burlington

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-4

Lab Sample ID: 200-78231-4

Date Collected: 05/30/25 11:49

Matrix: Air

Date Received: 06/02/25 10:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cumene	9.8	U	9.8	3.5	ug/m3			06/05/25 18:42	10
1,1,2,2-Tetrachloroethane	14	U	14	4.2	ug/m3			06/05/25 18:42	10
n-Propylbenzene	9.8	U	9.8	3.0	ug/m3			06/05/25 18:42	10
4-Ethyltoluene	9.8	U	9.8	3.3	ug/m3			06/05/25 18:42	10
1,3,5-Trimethylbenzene	9.8	U	9.8	3.3	ug/m3			06/05/25 18:42	10
2-Chlorotoluene	10	U	10	3.0	ug/m3			06/05/25 18:42	10
tert-Butylbenzene	11	U	11	3.8	ug/m3			06/05/25 18:42	10
1,2,4-Trimethylbenzene	4.9	J D	9.8	4.0	ug/m3			06/05/25 18:42	10
sec-Butylbenzene	11	U	11	4.0	ug/m3			06/05/25 18:42	10
4-Isopropyltoluene	11	U	11	4.3	ug/m3			06/05/25 18:42	10
1,3-Dichlorobenzene	12	U	12	3.8	ug/m3			06/05/25 18:42	10
1,4-Dichlorobenzene	12	U	12	4.2	ug/m3			06/05/25 18:42	10
Benzyl chloride	10	U	10	3.8	ug/m3			06/05/25 18:42	10
n-Butylbenzene	11	U	11	3.8	ug/m3			06/05/25 18:42	10
1,2-Dichlorobenzene	12	U	12	4.0	ug/m3			06/05/25 18:42	10
1,2,4-Trichlorobenzene	37	U	37	22	ug/m3			06/05/25 18:42	10
Hexachlorobutadiene	21	U	21	8.3	ug/m3			06/05/25 18:42	10
Naphthalene	20	U	20	5.8	ug/m3			06/05/25 18:42	10
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	5.0	U	5.0	2.2	ppb v/v			06/05/25 18:42	10
Chlorodifluoromethane	5.0	U	5.0	3.6	ppb v/v			06/05/25 18:42	10
1,2-Dichlorotetrafluoroethane	2.0	U	2.0	0.76	ppb v/v			06/05/25 18:42	10
Chloromethane	5.0	U	5.0	3.3	ppb v/v			06/05/25 18:42	10
n-Butane	4.4	J D	5.0	3.1	ppb v/v			06/05/25 18:42	10
Vinyl chloride	0.78	U	0.78	0.29	ppb v/v			06/05/25 18:42	10
1,3-Butadiene	2.0	U	2.0	0.40	ppb v/v			06/05/25 18:42	10
Bromomethane	2.0	U	2.0	0.62	ppb v/v			06/05/25 18:42	10
Chloroethane	5.0	U	5.0	1.6	ppb v/v			06/05/25 18:42	10
Bromoethene(Vinyl Bromide)	2.0	U	2.0	0.48	ppb v/v			06/05/25 18:42	10
Trichlorofluoromethane	2.0	U	2.0	0.77	ppb v/v			06/05/25 18:42	10
1,1,2-Trichlorotrifluoroethane	2.0	U	2.0	0.57	ppb v/v			06/05/25 18:42	10
1,1-Dichloroethene	0.50	U	0.50	0.35	ppb v/v			06/05/25 18:42	10
Acetone	310	D	50	19	ppb v/v			06/05/25 18:42	10
Isopropyl alcohol	50	U	50	22	ppb v/v			06/05/25 18:42	10
Carbon disulfide	3.2	J B D	5.0	1.8	ppb v/v			06/05/25 18:42	10
3-Chloropropene	5.0	U	5.0	0.81	ppb v/v			06/05/25 18:42	10
Methylene Chloride	5.0	U	5.0	1.9	ppb v/v			06/05/25 18:42	10
tert-Butyl alcohol	50	U	50	16	ppb v/v			06/05/25 18:42	10
Methyl tert-butyl ether	2.0	U	2.0	0.66	ppb v/v			06/05/25 18:42	10
trans-1,2-Dichloroethene	2.0	U	2.0	0.20	ppb v/v			06/05/25 18:42	10
n-Hexane	5.0	U	5.0	1.6	ppb v/v			06/05/25 18:42	10
1,1-Dichloroethane	2.0	U	2.0	0.18	ppb v/v			06/05/25 18:42	10
Methyl Ethyl Ketone (2-Butanone)	11	D	5.0	1.4	ppb v/v			06/05/25 18:42	10
cis-1,2-Dichloroethene	0.50	U	0.50	0.32	ppb v/v			06/05/25 18:42	10
Chloroform	2.0	U	2.0	0.59	ppb v/v			06/05/25 18:42	10
Tetrahydrofuran	50	U	50	17	ppb v/v			06/05/25 18:42	10
1,1,1-Trichloroethane	2.0	U	2.0	0.73	ppb v/v			06/05/25 18:42	10
Cyclohexane	2.0	U	2.0	0.52	ppb v/v			06/05/25 18:42	10

Eurofins Burlington

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-4

Lab Sample ID: 200-78231-4

Date Collected: 05/30/25 11:49

Matrix: Air

Date Received: 06/02/25 10:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	0.35	U	0.35	0.24	ppb v/v			06/05/25 18:42	10
2,2,4-Trimethylpentane	2.0	U	2.0	0.71	ppb v/v			06/05/25 18:42	10
Benzene	2.0	U	2.0	0.51	ppb v/v			06/05/25 18:42	10
1,2-Dichloroethane	2.0	U	2.0	0.74	ppb v/v			06/05/25 18:42	10
n-Heptane	2.0	U	2.0	0.86	ppb v/v			06/05/25 18:42	10
Trichloroethene	0.43	D	0.37	0.29	ppb v/v			06/05/25 18:42	10
Methyl methacrylate	5.0	U	5.0	1.3	ppb v/v			06/05/25 18:42	10
1,2-Dichloropropane	2.0	U	2.0	0.55	ppb v/v			06/05/25 18:42	10
1,4-Dioxane	50	U	50	1.9	ppb v/v			06/05/25 18:42	10
Bromodichloromethane	2.0	U	2.0	0.58	ppb v/v			06/05/25 18:42	10
cis-1,3-Dichloropropene	2.0	U	2.0	0.56	ppb v/v			06/05/25 18:42	10
4-Methyl-2-pentanone (Methyl isobutyl ketone)	5.0	U	5.0	1.9	ppb v/v			06/05/25 18:42	10
Toluene	1.3	J D	2.0	0.54	ppb v/v			06/05/25 18:42	10
trans-1,3-Dichloropropene	2.0	U	2.0	0.62	ppb v/v			06/05/25 18:42	10
1,1,2-Trichloroethane	2.0	U	2.0	0.53	ppb v/v			06/05/25 18:42	10
Tetrachloroethene	2.0	U	2.0	0.36	ppb v/v			06/05/25 18:42	10
Methyl Butyl Ketone (2-Hexanone)	5.0	U	5.0	2.0	ppb v/v			06/05/25 18:42	10
Dibromochloromethane	2.0	U	2.0	0.53	ppb v/v			06/05/25 18:42	10
1,2-Dibromoethane	2.0	U	2.0	0.45	ppb v/v			06/05/25 18:42	10
Chlorobenzene	2.0	U	2.0	0.47	ppb v/v			06/05/25 18:42	10
Ethylbenzene	0.59	J D	2.0	0.51	ppb v/v			06/05/25 18:42	10
m,p-Xylene	1.3	J D	5.0	0.14	ppb v/v			06/05/25 18:42	10
o-Xylene	2.0	U	2.0	0.69	ppb v/v			06/05/25 18:42	10
Styrene	2.0	U	2.0	0.56	ppb v/v			06/05/25 18:42	10
Bromoform	2.0	U	2.0	0.58	ppb v/v			06/05/25 18:42	10
Cumene	2.0	U	2.0	0.72	ppb v/v			06/05/25 18:42	10
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.61	ppb v/v			06/05/25 18:42	10
n-Propylbenzene	2.0	U	2.0	0.62	ppb v/v			06/05/25 18:42	10
4-Ethyltoluene	2.0	U	2.0	0.68	ppb v/v			06/05/25 18:42	10
1,3,5-Trimethylbenzene	2.0	U	2.0	0.68	ppb v/v			06/05/25 18:42	10
2-Chlorotoluene	2.0	U	2.0	0.58	ppb v/v			06/05/25 18:42	10
tert-Butylbenzene	2.0	U	2.0	0.70	ppb v/v			06/05/25 18:42	10
1,2,4-Trimethylbenzene	1.0	J D	2.0	0.82	ppb v/v			06/05/25 18:42	10
sec-Butylbenzene	2.0	U	2.0	0.72	ppb v/v			06/05/25 18:42	10
4-Isopropyltoluene	2.0	U	2.0	0.78	ppb v/v			06/05/25 18:42	10
1,3-Dichlorobenzene	2.0	U	2.0	0.63	ppb v/v			06/05/25 18:42	10
1,4-Dichlorobenzene	2.0	U	2.0	0.70	ppb v/v			06/05/25 18:42	10
Benzyl chloride	2.0	U	2.0	0.74	ppb v/v			06/05/25 18:42	10
n-Butylbenzene	2.0	U	2.0	0.70	ppb v/v			06/05/25 18:42	10
1,2-Dichlorobenzene	2.0	U	2.0	0.66	ppb v/v			06/05/25 18:42	10
1,2,4-Trichlorobenzene	5.0	U	5.0	3.0	ppb v/v			06/05/25 18:42	10
Hexachlorobutadiene	2.0	U	2.0	0.78	ppb v/v			06/05/25 18:42	10
Naphthalene	3.8	U	3.8	1.1	ppb v/v			06/05/25 18:42	10

Eurofins Burlington

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-5

Lab Sample ID: 200-78231-5

Date Collected: 05/30/25 11:42

Matrix: Air

Date Received: 06/02/25 10:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	19	J	25	11	ug/m3			06/05/25 20:38	10
Chlorodifluoromethane	18	U	18	13	ug/m3			06/05/25 20:38	10
1,2-Dichlorotetrafluoroethane	14	U	14	5.3	ug/m3			06/05/25 20:38	10
Chloromethane	10	U	10	6.8	ug/m3			06/05/25 20:38	10
n-Butane	250		12	7.4	ug/m3			06/05/25 20:38	10
Vinyl chloride	2.0	U	2.0	0.74	ug/m3			06/05/25 20:38	10
1,3-Butadiene	4.4	U	4.4	0.88	ug/m3			06/05/25 20:38	10
Bromomethane	7.8	U	7.8	2.4	ug/m3			06/05/25 20:38	10
Chloroethane	13	U	13	4.2	ug/m3			06/05/25 20:38	10
Bromoethene(Vinyl Bromide)	8.7	U	8.7	2.1	ug/m3			06/05/25 20:38	10
Trichlorofluoromethane	11	U	11	4.3	ug/m3			06/05/25 20:38	10
1,1,2-Trichlorotrifluoroethane	15	U	15	4.4	ug/m3			06/05/25 20:38	10
1,1-Dichloroethene	2.0	U	2.0	1.4	ug/m3			06/05/25 20:38	10
Acetone	1700	E	120	45	ug/m3			06/05/25 20:38	10
Isopropyl alcohol	120	U	120	54	ug/m3			06/05/25 20:38	10
Carbon disulfide	170	B	16	5.6	ug/m3			06/05/25 20:38	10
3-Chloropropene	16	U	16	2.5	ug/m3			06/05/25 20:38	10
Methylene Chloride	17	U	17	6.6	ug/m3			06/05/25 20:38	10
tert-Butyl alcohol	150	U	150	49	ug/m3			06/05/25 20:38	10
Methyl tert-butyl ether	7.2	U	7.2	2.4	ug/m3			06/05/25 20:38	10
trans-1,2-Dichloroethene	7.9	U	7.9	0.79	ug/m3			06/05/25 20:38	10
n-Hexane	250		18	5.6	ug/m3			06/05/25 20:38	10
1,1-Dichloroethane	8.1	U	8.1	0.73	ug/m3			06/05/25 20:38	10
Methyl Ethyl Ketone (2-Butanone)	61		15	4.1	ug/m3			06/05/25 20:38	10
cis-1,2-Dichloroethene	2.0	U	2.0	1.3	ug/m3			06/05/25 20:38	10
Chloroform	9.8	U	9.8	2.9	ug/m3			06/05/25 20:38	10
Tetrahydrofuran	150	U	150	50	ug/m3			06/05/25 20:38	10
1,1,1-Trichloroethane	11	U	11	4.0	ug/m3			06/05/25 20:38	10
Cyclohexane	530		6.9	1.8	ug/m3			06/05/25 20:38	10
Carbon tetrachloride	2.2	U	2.2	1.5	ug/m3			06/05/25 20:38	10
2,2,4-Trimethylpentane	9.3	U	9.3	3.3	ug/m3			06/05/25 20:38	10
Benzene	6.6		6.4	1.6	ug/m3			06/05/25 20:38	10
1,2-Dichloroethane	8.1	U	8.1	3.0	ug/m3			06/05/25 20:38	10
n-Heptane	4500	E	8.2	3.5	ug/m3			06/05/25 20:38	10
Trichloroethene	5.4		2.0	1.6	ug/m3			06/05/25 20:38	10
Methyl methacrylate	20	U	20	5.3	ug/m3			06/05/25 20:38	10
1,2-Dichloropropane	9.2	U	9.2	2.5	ug/m3			06/05/25 20:38	10
1,4-Dioxane	180	U	180	6.8	ug/m3			06/05/25 20:38	10
Bromodichloromethane	13	U	13	3.9	ug/m3			06/05/25 20:38	10
cis-1,3-Dichloropropene	9.1	U	9.1	2.5	ug/m3			06/05/25 20:38	10
4-Methyl-2-pentanone (Methyl isobutyl ketone)	20	U	20	7.8	ug/m3			06/05/25 20:38	10
Toluene	78		7.5	2.0	ug/m3			06/05/25 20:38	10
trans-1,3-Dichloropropene	9.1	U	9.1	2.8	ug/m3			06/05/25 20:38	10
1,1,2-Trichloroethane	11	U	11	2.9	ug/m3			06/05/25 20:38	10
Tetrachloroethene	40		14	2.4	ug/m3			06/05/25 20:38	10
Methyl Butyl Ketone (2-Hexanone)	11	J	20	8.2	ug/m3			06/05/25 20:38	10
Dibromochloromethane	17	U	17	4.5	ug/m3			06/05/25 20:38	10
1,2-Dibromoethane	15	U	15	3.5	ug/m3			06/05/25 20:38	10

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-5

Lab Sample ID: 200-78231-5

Date Collected: 05/30/25 11:42

Matrix: Air

Date Received: 06/02/25 10:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	9.2	U	9.2	2.2	ug/m3			06/05/25 20:38	10
Ethylbenzene	47		8.7	2.2	ug/m3			06/05/25 20:38	10
m,p-Xylene	110		22	0.61	ug/m3			06/05/25 20:38	10
o-Xylene	49		8.7	3.0	ug/m3			06/05/25 20:38	10
Styrene	8.5	U	8.5	2.4	ug/m3			06/05/25 20:38	10
Bromoform	21	U	21	6.0	ug/m3			06/05/25 20:38	10
Cumene	13		9.8	3.5	ug/m3			06/05/25 20:38	10
1,1,2,2-Tetrachloroethane	14	U	14	4.2	ug/m3			06/05/25 20:38	10
n-Propylbenzene	23		9.8	3.0	ug/m3			06/05/25 20:38	10
4-Ethyltoluene	28		9.8	3.3	ug/m3			06/05/25 20:38	10
1,3,5-Trimethylbenzene	22		9.8	3.3	ug/m3			06/05/25 20:38	10
2-Chlorotoluene	10	U	10	3.0	ug/m3			06/05/25 20:38	10
tert-Butylbenzene	11	U	11	3.8	ug/m3			06/05/25 20:38	10
1,2,4-Trimethylbenzene	55		9.8	4.0	ug/m3			06/05/25 20:38	10
sec-Butylbenzene	8.0	J	11	4.0	ug/m3			06/05/25 20:38	10
4-Isopropyltoluene	8.1	J	11	4.3	ug/m3			06/05/25 20:38	10
1,3-Dichlorobenzene	12	U	12	3.8	ug/m3			06/05/25 20:38	10
1,4-Dichlorobenzene	12	U	12	4.2	ug/m3			06/05/25 20:38	10
Benzyl chloride	10	U	10	3.8	ug/m3			06/05/25 20:38	10
n-Butylbenzene	5.9	J	11	3.8	ug/m3			06/05/25 20:38	10
1,2-Dichlorobenzene	12	U	12	4.0	ug/m3			06/05/25 20:38	10
1,2,4-Trichlorobenzene	37	U	37	22	ug/m3			06/05/25 20:38	10
Hexachlorobutadiene	21	U	21	8.3	ug/m3			06/05/25 20:38	10
Naphthalene	20	U	20	5.8	ug/m3			06/05/25 20:38	10
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	3.8	J	5.0	2.2	ppb v/v			06/05/25 20:38	10
Chlorodifluoromethane	5.0	U	5.0	3.6	ppb v/v			06/05/25 20:38	10
1,2-Dichlorotetrafluoroethane	2.0	U	2.0	0.76	ppb v/v			06/05/25 20:38	10
Chloromethane	5.0	U	5.0	3.3	ppb v/v			06/05/25 20:38	10
n-Butane	100		5.0	3.1	ppb v/v			06/05/25 20:38	10
Vinyl chloride	0.78	U	0.78	0.29	ppb v/v			06/05/25 20:38	10
1,3-Butadiene	2.0	U	2.0	0.40	ppb v/v			06/05/25 20:38	10
Bromomethane	2.0	U	2.0	0.62	ppb v/v			06/05/25 20:38	10
Chloroethane	5.0	U	5.0	1.6	ppb v/v			06/05/25 20:38	10
Bromoethene(Vinyl Bromide)	2.0	U	2.0	0.48	ppb v/v			06/05/25 20:38	10
Trichlorofluoromethane	2.0	U	2.0	0.77	ppb v/v			06/05/25 20:38	10
1,1,2-Trichlorotrifluoroethane	2.0	U	2.0	0.57	ppb v/v			06/05/25 20:38	10
1,1-Dichloroethene	0.50	U	0.50	0.35	ppb v/v			06/05/25 20:38	10
Acetone	720	E	50	19	ppb v/v			06/05/25 20:38	10
Isopropyl alcohol	50	U	50	22	ppb v/v			06/05/25 20:38	10
Carbon disulfide	56	B	5.0	1.8	ppb v/v			06/05/25 20:38	10
3-Chloropropene	5.0	U	5.0	0.81	ppb v/v			06/05/25 20:38	10
Methylene Chloride	5.0	U	5.0	1.9	ppb v/v			06/05/25 20:38	10
tert-Butyl alcohol	50	U	50	16	ppb v/v			06/05/25 20:38	10
Methyl tert-butyl ether	2.0	U	2.0	0.66	ppb v/v			06/05/25 20:38	10
trans-1,2-Dichloroethene	2.0	U	2.0	0.20	ppb v/v			06/05/25 20:38	10
n-Hexane	70		5.0	1.6	ppb v/v			06/05/25 20:38	10
1,1-Dichloroethane	2.0	U	2.0	0.18	ppb v/v			06/05/25 20:38	10

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-5

Lab Sample ID: 200-78231-5

Date Collected: 05/30/25 11:42

Matrix: Air

Date Received: 06/02/25 10:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone (2-Butanone)	21		5.0	1.4	ppb v/v			06/05/25 20:38	10
cis-1,2-Dichloroethene	0.50	U	0.50	0.32	ppb v/v			06/05/25 20:38	10
Chloroform	2.0	U	2.0	0.59	ppb v/v			06/05/25 20:38	10
Tetrahydrofuran	50	U	50	17	ppb v/v			06/05/25 20:38	10
1,1,1-Trichloroethane	2.0	U	2.0	0.73	ppb v/v			06/05/25 20:38	10
Cyclohexane	150		2.0	0.52	ppb v/v			06/05/25 20:38	10
Carbon tetrachloride	0.35	U	0.35	0.24	ppb v/v			06/05/25 20:38	10
2,2,4-Trimethylpentane	2.0	U	2.0	0.71	ppb v/v			06/05/25 20:38	10
Benzene	2.1		2.0	0.51	ppb v/v			06/05/25 20:38	10
1,2-Dichloroethane	2.0	U	2.0	0.74	ppb v/v			06/05/25 20:38	10
n-Heptane	1100	E	2.0	0.86	ppb v/v			06/05/25 20:38	10
Trichloroethene	1.0		0.37	0.29	ppb v/v			06/05/25 20:38	10
Methyl methacrylate	5.0	U	5.0	1.3	ppb v/v			06/05/25 20:38	10
1,2-Dichloropropane	2.0	U	2.0	0.55	ppb v/v			06/05/25 20:38	10
1,4-Dioxane	50	U	50	1.9	ppb v/v			06/05/25 20:38	10
Bromodichloromethane	2.0	U	2.0	0.58	ppb v/v			06/05/25 20:38	10
cis-1,3-Dichloropropene	2.0	U	2.0	0.56	ppb v/v			06/05/25 20:38	10
4-Methyl-2-pentanone (Methyl isobutyl ketone)	5.0	U	5.0	1.9	ppb v/v			06/05/25 20:38	10
Toluene	21		2.0	0.54	ppb v/v			06/05/25 20:38	10
trans-1,3-Dichloropropene	2.0	U	2.0	0.62	ppb v/v			06/05/25 20:38	10
1,1,2-Trichloroethane	2.0	U	2.0	0.53	ppb v/v			06/05/25 20:38	10
Tetrachloroethene	5.9		2.0	0.36	ppb v/v			06/05/25 20:38	10
Methyl Butyl Ketone (2-Hexanone)	2.7	J	5.0	2.0	ppb v/v			06/05/25 20:38	10
Dibromochloromethane	2.0	U	2.0	0.53	ppb v/v			06/05/25 20:38	10
1,2-Dibromoethane	2.0	U	2.0	0.45	ppb v/v			06/05/25 20:38	10
Chlorobenzene	2.0	U	2.0	0.47	ppb v/v			06/05/25 20:38	10
Ethylbenzene	11		2.0	0.51	ppb v/v			06/05/25 20:38	10
m,p-Xylene	25		5.0	0.14	ppb v/v			06/05/25 20:38	10
o-Xylene	11		2.0	0.69	ppb v/v			06/05/25 20:38	10
Styrene	2.0	U	2.0	0.56	ppb v/v			06/05/25 20:38	10
Bromoform	2.0	U	2.0	0.58	ppb v/v			06/05/25 20:38	10
Cumene	2.7		2.0	0.72	ppb v/v			06/05/25 20:38	10
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.61	ppb v/v			06/05/25 20:38	10
n-Propylbenzene	4.7		2.0	0.62	ppb v/v			06/05/25 20:38	10
4-Ethyltoluene	5.7		2.0	0.68	ppb v/v			06/05/25 20:38	10
1,3,5-Trimethylbenzene	4.5		2.0	0.68	ppb v/v			06/05/25 20:38	10
2-Chlorotoluene	2.0	U	2.0	0.58	ppb v/v			06/05/25 20:38	10
tert-Butylbenzene	2.0	U	2.0	0.70	ppb v/v			06/05/25 20:38	10
1,2,4-Trimethylbenzene	11		2.0	0.82	ppb v/v			06/05/25 20:38	10
sec-Butylbenzene	1.5	J	2.0	0.72	ppb v/v			06/05/25 20:38	10
4-Isopropyltoluene	1.5	J	2.0	0.78	ppb v/v			06/05/25 20:38	10
1,3-Dichlorobenzene	2.0	U	2.0	0.63	ppb v/v			06/05/25 20:38	10
1,4-Dichlorobenzene	2.0	U	2.0	0.70	ppb v/v			06/05/25 20:38	10
Benzyl chloride	2.0	U	2.0	0.74	ppb v/v			06/05/25 20:38	10
n-Butylbenzene	1.1	J	2.0	0.70	ppb v/v			06/05/25 20:38	10
1,2-Dichlorobenzene	2.0	U	2.0	0.66	ppb v/v			06/05/25 20:38	10
1,2,4-Trichlorobenzene	5.0	U	5.0	3.0	ppb v/v			06/05/25 20:38	10
Hexachlorobutadiene	2.0	U	2.0	0.78	ppb v/v			06/05/25 20:38	10

Eurofins Burlington

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-5

Lab Sample ID: 200-78231-5

Date Collected: 05/30/25 11:42

Matrix: Air

Date Received: 06/02/25 10:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	3.8	U	3.8	1.1	ppb v/v			06/05/25 20:38	10

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	230	U	230	100	ug/m3			06/09/25 15:00	94.2
Chlorodifluoromethane	170	U	170	120	ug/m3			06/09/25 15:00	94.2
1,2-Dichlorotetrafluoroethane	130	U	130	50	ug/m3			06/09/25 15:00	94.2
Chloromethane	97	U	97	64	ug/m3			06/09/25 15:00	94.2
n-Butane	330	D	110	69	ug/m3			06/09/25 15:00	94.2
Vinyl chloride	19	U	19	7.0	ug/m3			06/09/25 15:00	94.2
1,3-Butadiene	42	U	42	8.3	ug/m3			06/09/25 15:00	94.2
Bromomethane	73	U	73	23	ug/m3			06/09/25 15:00	94.2
Chloroethane	120	U	120	40	ug/m3			06/09/25 15:00	94.2
Bromoethene(Vinyl Bromide)	82	U	82	20	ug/m3			06/09/25 15:00	94.2
Trichlorofluoromethane	110	U	110	41	ug/m3			06/09/25 15:00	94.2
1,1,2-Trichlorotrifluoroethane	140	U	140	41	ug/m3			06/09/25 15:00	94.2
1,1-Dichloroethene	19	U	19	13	ug/m3			06/09/25 15:00	94.2
Acetone	3200	D	1100	430	ug/m3			06/09/25 15:00	94.2
Isopropyl alcohol	1200	U	1200	510	ug/m3			06/09/25 15:00	94.2
Carbon disulfide	230	D	150	53	ug/m3			06/09/25 15:00	94.2
3-Chloropropene	150	U	150	24	ug/m3			06/09/25 15:00	94.2
Methylene Chloride	160	U	160	62	ug/m3			06/09/25 15:00	94.2
tert-Butyl alcohol	1400	U	1400	460	ug/m3			06/09/25 15:00	94.2
Methyl tert-butyl ether	68	U	68	22	ug/m3			06/09/25 15:00	94.2
trans-1,2-Dichloroethene	75	U	75	7.5	ug/m3			06/09/25 15:00	94.2
n-Hexane	360	D	170	53	ug/m3			06/09/25 15:00	94.2
1,1-Dichloroethane	76	U	76	6.9	ug/m3			06/09/25 15:00	94.2
Methyl Ethyl Ketone (2-Butanone)	73	J D	140	39	ug/m3			06/09/25 15:00	94.2
cis-1,2-Dichloroethene	19	U	19	12	ug/m3			06/09/25 15:00	94.2
Chloroform	92	U	92	27	ug/m3			06/09/25 15:00	94.2
Tetrahydrofuran	1400	U	1400	470	ug/m3			06/09/25 15:00	94.2
1,1,1-Trichloroethane	100	U	100	38	ug/m3			06/09/25 15:00	94.2
Cyclohexane	680	D	65	17	ug/m3			06/09/25 15:00	94.2
Carbon tetrachloride	21	U	21	14	ug/m3			06/09/25 15:00	94.2
2,2,4-Trimethylpentane	88	U	88	31	ug/m3			06/09/25 15:00	94.2
Benzene	60	U	60	15	ug/m3			06/09/25 15:00	94.2
1,2-Dichloroethane	76	U	76	28	ug/m3			06/09/25 15:00	94.2
n-Heptane	12000	D	77	33	ug/m3			06/09/25 15:00	94.2
Trichloroethene	19	U	19	15	ug/m3			06/09/25 15:00	94.2
Methyl methacrylate	190	U	190	50	ug/m3			06/09/25 15:00	94.2
1,2-Dichloropropane	87	U	87	24	ug/m3			06/09/25 15:00	94.2
1,4-Dioxane	1700	U	1700	64	ug/m3			06/09/25 15:00	94.2
Bromodichloromethane	130	U	130	37	ug/m3			06/09/25 15:00	94.2
cis-1,3-Dichloropropene	86	U	86	24	ug/m3			06/09/25 15:00	94.2
4-Methyl-2-pentanone (Methyl isobutyl ketone)	190	U	190	73	ug/m3			06/09/25 15:00	94.2
Toluene	87	D	71	19	ug/m3			06/09/25 15:00	94.2
trans-1,3-Dichloropropene	86	U	86	27	ug/m3			06/09/25 15:00	94.2
1,1,2-Trichloroethane	42	J D	100	27	ug/m3			06/09/25 15:00	94.2

Eurofins Burlington

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-5

Lab Sample ID: 200-78231-5

Date Collected: 05/30/25 11:42

Matrix: Air

Date Received: 06/02/25 10:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	39	J D	130	23	ug/m3			06/09/25 15:00	94.2
Methyl Butyl Ketone (2-Hexanone)	190	U	190	77	ug/m3			06/09/25 15:00	94.2
Dibromochloromethane	160	U	160	43	ug/m3			06/09/25 15:00	94.2
1,2-Dibromoethane	140	U	140	33	ug/m3			06/09/25 15:00	94.2
Chlorobenzene	87	U	87	20	ug/m3			06/09/25 15:00	94.2
Ethylbenzene	55	J D	82	21	ug/m3			06/09/25 15:00	94.2
m,p-Xylene	120	J D	200	5.7	ug/m3			06/09/25 15:00	94.2
o-Xylene	49	J D	82	28	ug/m3			06/09/25 15:00	94.2
Styrene	80	U	80	22	ug/m3			06/09/25 15:00	94.2
Bromoform	190	U	190	56	ug/m3			06/09/25 15:00	94.2
Cumene	93	U	93	33	ug/m3			06/09/25 15:00	94.2
1,1,2,2-Tetrachloroethane	130	U	130	39	ug/m3			06/09/25 15:00	94.2
n-Propylbenzene	93	U	93	29	ug/m3			06/09/25 15:00	94.2
4-Ethyltoluene	93	U	93	31	ug/m3			06/09/25 15:00	94.2
1,3,5-Trimethylbenzene	93	U	93	31	ug/m3			06/09/25 15:00	94.2
2-Chlorotoluene	98	U	98	28	ug/m3			06/09/25 15:00	94.2
tert-Butylbenzene	100	U	100	36	ug/m3			06/09/25 15:00	94.2
1,2,4-Trimethylbenzene	51	J D	93	38	ug/m3			06/09/25 15:00	94.2
sec-Butylbenzene	100	U	100	37	ug/m3			06/09/25 15:00	94.2
4-Isopropyltoluene	100	U	100	40	ug/m3			06/09/25 15:00	94.2
1,3-Dichlorobenzene	110	U	110	36	ug/m3			06/09/25 15:00	94.2
1,4-Dichlorobenzene	110	U	110	40	ug/m3			06/09/25 15:00	94.2
Benzyl chloride	98	U	98	36	ug/m3			06/09/25 15:00	94.2
n-Butylbenzene	100	U	100	36	ug/m3			06/09/25 15:00	94.2
1,2-Dichlorobenzene	110	U	110	37	ug/m3			06/09/25 15:00	94.2
1,2,4-Trichlorobenzene	350	U	350	210	ug/m3			06/09/25 15:00	94.2
Hexachlorobutadiene	200	U	200	78	ug/m3			06/09/25 15:00	94.2
Naphthalene	190	U	190	54	ug/m3			06/09/25 15:00	94.2
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	47	U	47	21	ppb v/v			06/09/25 15:00	94.2
Chlorodifluoromethane	47	U	47	34	ppb v/v			06/09/25 15:00	94.2
1,2-Dichlorotetrafluoroethane	19	U	19	7.2	ppb v/v			06/09/25 15:00	94.2
Chloromethane	47	U	47	31	ppb v/v			06/09/25 15:00	94.2
n-Butane	140	D	47	29	ppb v/v			06/09/25 15:00	94.2
Vinyl chloride	7.4	U	7.4	2.7	ppb v/v			06/09/25 15:00	94.2
1,3-Butadiene	19	U	19	3.8	ppb v/v			06/09/25 15:00	94.2
Bromomethane	19	U	19	5.8	ppb v/v			06/09/25 15:00	94.2
Chloroethane	47	U	47	15	ppb v/v			06/09/25 15:00	94.2
Bromoethene(Vinyl Bromide)	19	U	19	4.5	ppb v/v			06/09/25 15:00	94.2
Trichlorofluoromethane	19	U	19	7.3	ppb v/v			06/09/25 15:00	94.2
1,1,2-Trichlorotrifluoroethane	19	U	19	5.4	ppb v/v			06/09/25 15:00	94.2
1,1-Dichloroethene	4.8	U	4.8	3.3	ppb v/v			06/09/25 15:00	94.2
Acetone	1300	D	470	180	ppb v/v			06/09/25 15:00	94.2
Isopropyl alcohol	470	U	470	210	ppb v/v			06/09/25 15:00	94.2
Carbon disulfide	74	D	47	17	ppb v/v			06/09/25 15:00	94.2
3-Chloropropene	47	U	47	7.6	ppb v/v			06/09/25 15:00	94.2
Methylene Chloride	47	U	47	18	ppb v/v			06/09/25 15:00	94.2
tert-Butyl alcohol	470	U	470	150	ppb v/v			06/09/25 15:00	94.2

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-5

Lab Sample ID: 200-78231-5

Date Collected: 05/30/25 11:42

Matrix: Air

Date Received: 06/02/25 10:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	19	U	19	6.2	ppb v/v			06/09/25 15:00	94.2
trans-1,2-Dichloroethene	19	U	19	1.9	ppb v/v			06/09/25 15:00	94.2
n-Hexane	100	D	47	15	ppb v/v			06/09/25 15:00	94.2
1,1-Dichloroethane	19	U	19	1.7	ppb v/v			06/09/25 15:00	94.2
Methyl Ethyl Ketone (2-Butanone)	25	J D	47	13	ppb v/v			06/09/25 15:00	94.2
cis-1,2-Dichloroethene	4.8	U	4.8	3.0	ppb v/v			06/09/25 15:00	94.2
Chloroform	19	U	19	5.6	ppb v/v			06/09/25 15:00	94.2
Tetrahydrofuran	470	U	470	160	ppb v/v			06/09/25 15:00	94.2
1,1,1-Trichloroethane	19	U	19	6.9	ppb v/v			06/09/25 15:00	94.2
Cyclohexane	200	D	19	4.9	ppb v/v			06/09/25 15:00	94.2
Carbon tetrachloride	3.3	U	3.3	2.3	ppb v/v			06/09/25 15:00	94.2
2,2,4-Trimethylpentane	19	U	19	6.7	ppb v/v			06/09/25 15:00	94.2
Benzene	19	U	19	4.8	ppb v/v			06/09/25 15:00	94.2
1,2-Dichloroethane	19	U	19	7.0	ppb v/v			06/09/25 15:00	94.2
n-Heptane	2800	D	19	8.1	ppb v/v			06/09/25 15:00	94.2
Trichloroethene	3.5	U	3.5	2.7	ppb v/v			06/09/25 15:00	94.2
Methyl methacrylate	47	U	47	12	ppb v/v			06/09/25 15:00	94.2
1,2-Dichloropropane	19	U	19	5.2	ppb v/v			06/09/25 15:00	94.2
1,4-Dioxane	470	U	470	18	ppb v/v			06/09/25 15:00	94.2
Bromodichloromethane	19	U	19	5.5	ppb v/v			06/09/25 15:00	94.2
cis-1,3-Dichloropropene	19	U	19	5.3	ppb v/v			06/09/25 15:00	94.2
4-Methyl-2-pentanone (Methyl isobutyl ketone)	47	U	47	18	ppb v/v			06/09/25 15:00	94.2
Toluene	23	D	19	5.1	ppb v/v			06/09/25 15:00	94.2
trans-1,3-Dichloropropene	19	U	19	5.8	ppb v/v			06/09/25 15:00	94.2
1,1,2-Trichloroethane	7.7	J D	19	5.0	ppb v/v			06/09/25 15:00	94.2
Tetrachloroethene	5.7	J D	19	3.4	ppb v/v			06/09/25 15:00	94.2
Methyl Butyl Ketone (2-Hexanone)	47	U	47	19	ppb v/v			06/09/25 15:00	94.2
Dibromochloromethane	19	U	19	5.0	ppb v/v			06/09/25 15:00	94.2
1,2-Dibromoethane	19	U	19	4.2	ppb v/v			06/09/25 15:00	94.2
Chlorobenzene	19	U	19	4.4	ppb v/v			06/09/25 15:00	94.2
Ethylbenzene	13	J D	19	4.8	ppb v/v			06/09/25 15:00	94.2
m,p-Xylene	27	J D	47	1.3	ppb v/v			06/09/25 15:00	94.2
o-Xylene	11	J D	19	6.5	ppb v/v			06/09/25 15:00	94.2
Styrene	19	U	19	5.3	ppb v/v			06/09/25 15:00	94.2
Bromoform	19	U	19	5.5	ppb v/v			06/09/25 15:00	94.2
Cumene	19	U	19	6.8	ppb v/v			06/09/25 15:00	94.2
1,1,2,2-Tetrachloroethane	19	U	19	5.7	ppb v/v			06/09/25 15:00	94.2
n-Propylbenzene	19	U	19	5.8	ppb v/v			06/09/25 15:00	94.2
4-Ethyltoluene	19	U	19	6.4	ppb v/v			06/09/25 15:00	94.2
1,3,5-Trimethylbenzene	19	U	19	6.4	ppb v/v			06/09/25 15:00	94.2
2-Chlorotoluene	19	U	19	5.5	ppb v/v			06/09/25 15:00	94.2
tert-Butylbenzene	19	U	19	6.6	ppb v/v			06/09/25 15:00	94.2
1,2,4-Trimethylbenzene	10	J D	19	7.7	ppb v/v			06/09/25 15:00	94.2
sec-Butylbenzene	19	U	19	6.8	ppb v/v			06/09/25 15:00	94.2
4-Isopropyltoluene	19	U	19	7.3	ppb v/v			06/09/25 15:00	94.2
1,3-Dichlorobenzene	19	U	19	5.9	ppb v/v			06/09/25 15:00	94.2
1,4-Dichlorobenzene	19	U	19	6.6	ppb v/v			06/09/25 15:00	94.2
Benzyl chloride	19	U	19	7.0	ppb v/v			06/09/25 15:00	94.2

Eurofins Burlington

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-5

Lab Sample ID: 200-78231-5

Date Collected: 05/30/25 11:42

Matrix: Air

Date Received: 06/02/25 10:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	19	U	19	6.6	ppb v/v			06/09/25 15:00	94.2
1,2-Dichlorobenzene	19	U	19	6.2	ppb v/v			06/09/25 15:00	94.2
1,2,4-Trichlorobenzene	47	U	47	28	ppb v/v			06/09/25 15:00	94.2
Hexachlorobutadiene	19	U	19	7.3	ppb v/v			06/09/25 15:00	94.2
Naphthalene	36	U	36	10	ppb v/v			06/09/25 15:00	94.2

Client Sample ID: RI-VP-6

Lab Sample ID: 200-78231-6

Date Collected: 05/30/25 12:11

Matrix: Air

Date Received: 06/02/25 10:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	25	U	25	11	ug/m3			06/05/25 21:35	10
Chlorodifluoromethane	18	U	18	13	ug/m3			06/05/25 21:35	10
1,2-Dichlorotetrafluoroethane	14	U	14	5.3	ug/m3			06/05/25 21:35	10
Chloromethane	10	U	10	6.8	ug/m3			06/05/25 21:35	10
n-Butane	200		12	7.4	ug/m3			06/05/25 21:35	10
Vinyl chloride	2.0	U	2.0	0.74	ug/m3			06/05/25 21:35	10
1,3-Butadiene	4.4	U	4.4	0.88	ug/m3			06/05/25 21:35	10
Bromomethane	7.8	U	7.8	2.4	ug/m3			06/05/25 21:35	10
Chloroethane	13	U	13	4.2	ug/m3			06/05/25 21:35	10
Bromoethene(Vinyl Bromide)	8.7	U	8.7	2.1	ug/m3			06/05/25 21:35	10
Trichlorofluoromethane	11	U	11	4.3	ug/m3			06/05/25 21:35	10
1,1,2-Trichlorotrifluoroethane	15	U	15	4.4	ug/m3			06/05/25 21:35	10
1,1-Dichloroethene	2.0	U	2.0	1.4	ug/m3			06/05/25 21:35	10
Acetone	4900	E	120	45	ug/m3			06/05/25 21:35	10
Isopropyl alcohol	83	J	120	54	ug/m3			06/05/25 21:35	10
Carbon disulfide	7.4	J B	16	5.6	ug/m3			06/05/25 21:35	10
3-Chloropropene	16	U	16	2.5	ug/m3			06/05/25 21:35	10
Methylene Chloride	17	U	17	6.6	ug/m3			06/05/25 21:35	10
tert-Butyl alcohol	150	U	150	49	ug/m3			06/05/25 21:35	10
Methyl tert-butyl ether	7.2	U	7.2	2.4	ug/m3			06/05/25 21:35	10
trans-1,2-Dichloroethene	7.9	U	7.9	0.79	ug/m3			06/05/25 21:35	10
n-Hexane	44		18	5.6	ug/m3			06/05/25 21:35	10
1,1-Dichloroethane	8.1	U	8.1	0.73	ug/m3			06/05/25 21:35	10
Methyl Ethyl Ketone (2-Butanone)	150		15	4.1	ug/m3			06/05/25 21:35	10
cis-1,2-Dichloroethene	2.0	U	2.0	1.3	ug/m3			06/05/25 21:35	10
Chloroform	9.8	U	9.8	2.9	ug/m3			06/05/25 21:35	10
Tetrahydrofuran	150	U	150	50	ug/m3			06/05/25 21:35	10
1,1,1-Trichloroethane	11	U	11	4.0	ug/m3			06/05/25 21:35	10
Cyclohexane	21		6.9	1.8	ug/m3			06/05/25 21:35	10
Carbon tetrachloride	2.2	U	2.2	1.5	ug/m3			06/05/25 21:35	10
2,2,4-Trimethylpentane	10		9.3	3.3	ug/m3			06/05/25 21:35	10
Benzene	6.4	U	6.4	1.6	ug/m3			06/05/25 21:35	10
1,2-Dichloroethane	8.1	U	8.1	3.0	ug/m3			06/05/25 21:35	10
n-Heptane	37		8.2	3.5	ug/m3			06/05/25 21:35	10
Trichloroethene	2.0	U	2.0	1.6	ug/m3			06/05/25 21:35	10
Methyl methacrylate	20	U	20	5.3	ug/m3			06/05/25 21:35	10

Eurofins Burlington

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-6

Lab Sample ID: 200-78231-6

Date Collected: 05/30/25 12:11

Matrix: Air

Date Received: 06/02/25 10:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	9.2	U	9.2	2.5	ug/m3			06/05/25 21:35	10
1,4-Dioxane	180	U	180	6.8	ug/m3			06/05/25 21:35	10
Bromodichloromethane	13	U	13	3.9	ug/m3			06/05/25 21:35	10
cis-1,3-Dichloropropene	9.1	U	9.1	2.5	ug/m3			06/05/25 21:35	10
4-Methyl-2-pentanone (Methyl isobutyl ketone)	20	U	20	7.8	ug/m3			06/05/25 21:35	10
Toluene	17		7.5	2.0	ug/m3			06/05/25 21:35	10
trans-1,3-Dichloropropene	9.1	U	9.1	2.8	ug/m3			06/05/25 21:35	10
1,1,2-Trichloroethane	11	U	11	2.9	ug/m3			06/05/25 21:35	10
Tetrachloroethene	3.1	J	14	2.4	ug/m3			06/05/25 21:35	10
Methyl Butyl Ketone (2-Hexanone)	14	J	20	8.2	ug/m3			06/05/25 21:35	10
Dibromochloromethane	17	U	17	4.5	ug/m3			06/05/25 21:35	10
1,2-Dibromoethane	15	U	15	3.5	ug/m3			06/05/25 21:35	10
Chlorobenzene	9.2	U	9.2	2.2	ug/m3			06/05/25 21:35	10
Ethylbenzene	8.5	J	8.7	2.2	ug/m3			06/05/25 21:35	10
m,p-Xylene	22		22	0.61	ug/m3			06/05/25 21:35	10
o-Xylene	10		8.7	3.0	ug/m3			06/05/25 21:35	10
Styrene	8.5	U	8.5	2.4	ug/m3			06/05/25 21:35	10
Bromoform	21	U	21	6.0	ug/m3			06/05/25 21:35	10
Cumene	9.8	U	9.8	3.5	ug/m3			06/05/25 21:35	10
1,1,2,2-Tetrachloroethane	14	U	14	4.2	ug/m3			06/05/25 21:35	10
n-Propylbenzene	5.1	J	9.8	3.0	ug/m3			06/05/25 21:35	10
4-Ethyltoluene	6.7	J	9.8	3.3	ug/m3			06/05/25 21:35	10
1,3,5-Trimethylbenzene	5.3	J	9.8	3.3	ug/m3			06/05/25 21:35	10
2-Chlorotoluene	10	U	10	3.0	ug/m3			06/05/25 21:35	10
tert-Butylbenzene	11	U	11	3.8	ug/m3			06/05/25 21:35	10
1,2,4-Trimethylbenzene	19		9.8	4.0	ug/m3			06/05/25 21:35	10
sec-Butylbenzene	11	U	11	4.0	ug/m3			06/05/25 21:35	10
4-Isopropyltoluene	11	U	11	4.3	ug/m3			06/05/25 21:35	10
1,3-Dichlorobenzene	12	U	12	3.8	ug/m3			06/05/25 21:35	10
1,4-Dichlorobenzene	12	U	12	4.2	ug/m3			06/05/25 21:35	10
Benzyl chloride	10	U	10	3.8	ug/m3			06/05/25 21:35	10
n-Butylbenzene	11	U	11	3.8	ug/m3			06/05/25 21:35	10
1,2-Dichlorobenzene	12	U	12	4.0	ug/m3			06/05/25 21:35	10
1,2,4-Trichlorobenzene	37	U	37	22	ug/m3			06/05/25 21:35	10
Hexachlorobutadiene	21	U	21	8.3	ug/m3			06/05/25 21:35	10
Naphthalene	20	U	20	5.8	ug/m3			06/05/25 21:35	10
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	5.0	U	5.0	2.2	ppb v/v			06/05/25 21:35	10
Chlorodifluoromethane	5.0	U	5.0	3.6	ppb v/v			06/05/25 21:35	10
1,2-Dichlorotetrafluoroethane	2.0	U	2.0	0.76	ppb v/v			06/05/25 21:35	10
Chloromethane	5.0	U	5.0	3.3	ppb v/v			06/05/25 21:35	10
n-Butane	84		5.0	3.1	ppb v/v			06/05/25 21:35	10
Vinyl chloride	0.78	U	0.78	0.29	ppb v/v			06/05/25 21:35	10
1,3-Butadiene	2.0	U	2.0	0.40	ppb v/v			06/05/25 21:35	10
Bromomethane	2.0	U	2.0	0.62	ppb v/v			06/05/25 21:35	10
Chloroethane	5.0	U	5.0	1.6	ppb v/v			06/05/25 21:35	10
Bromoethene(Vinyl Bromide)	2.0	U	2.0	0.48	ppb v/v			06/05/25 21:35	10

Eurofins Burlington

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-6

Lab Sample ID: 200-78231-6

Date Collected: 05/30/25 12:11

Matrix: Air

Date Received: 06/02/25 10:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	2.0	U	2.0	0.77	ppb v/v			06/05/25 21:35	10
1,1,2-Trichlorotrifluoroethane	2.0	U	2.0	0.57	ppb v/v			06/05/25 21:35	10
1,1-Dichloroethene	0.50	U	0.50	0.35	ppb v/v			06/05/25 21:35	10
Acetone	2000	E	50	19	ppb v/v			06/05/25 21:35	10
Isopropyl alcohol	34	J	50	22	ppb v/v			06/05/25 21:35	10
Carbon disulfide	2.4	J B	5.0	1.8	ppb v/v			06/05/25 21:35	10
3-Chloropropene	5.0	U	5.0	0.81	ppb v/v			06/05/25 21:35	10
Methylene Chloride	5.0	U	5.0	1.9	ppb v/v			06/05/25 21:35	10
tert-Butyl alcohol	50	U	50	16	ppb v/v			06/05/25 21:35	10
Methyl tert-butyl ether	2.0	U	2.0	0.66	ppb v/v			06/05/25 21:35	10
trans-1,2-Dichloroethene	2.0	U	2.0	0.20	ppb v/v			06/05/25 21:35	10
n-Hexane	12		5.0	1.6	ppb v/v			06/05/25 21:35	10
1,1-Dichloroethane	2.0	U	2.0	0.18	ppb v/v			06/05/25 21:35	10
Methyl Ethyl Ketone (2-Butanone)	52		5.0	1.4	ppb v/v			06/05/25 21:35	10
cis-1,2-Dichloroethene	0.50	U	0.50	0.32	ppb v/v			06/05/25 21:35	10
Chloroform	2.0	U	2.0	0.59	ppb v/v			06/05/25 21:35	10
Tetrahydrofuran	50	U	50	17	ppb v/v			06/05/25 21:35	10
1,1,1-Trichloroethane	2.0	U	2.0	0.73	ppb v/v			06/05/25 21:35	10
Cyclohexane	6.1		2.0	0.52	ppb v/v			06/05/25 21:35	10
Carbon tetrachloride	0.35	U	0.35	0.24	ppb v/v			06/05/25 21:35	10
2,2,4-Trimethylpentane	2.2		2.0	0.71	ppb v/v			06/05/25 21:35	10
Benzene	2.0	U	2.0	0.51	ppb v/v			06/05/25 21:35	10
1,2-Dichloroethane	2.0	U	2.0	0.74	ppb v/v			06/05/25 21:35	10
n-Heptane	9.1		2.0	0.86	ppb v/v			06/05/25 21:35	10
Trichloroethene	0.37	U	0.37	0.29	ppb v/v			06/05/25 21:35	10
Methyl methacrylate	5.0	U	5.0	1.3	ppb v/v			06/05/25 21:35	10
1,2-Dichloropropane	2.0	U	2.0	0.55	ppb v/v			06/05/25 21:35	10
1,4-Dioxane	50	U	50	1.9	ppb v/v			06/05/25 21:35	10
Bromodichloromethane	2.0	U	2.0	0.58	ppb v/v			06/05/25 21:35	10
cis-1,3-Dichloropropene	2.0	U	2.0	0.56	ppb v/v			06/05/25 21:35	10
4-Methyl-2-pentanone (Methyl isobutyl ketone)	5.0	U	5.0	1.9	ppb v/v			06/05/25 21:35	10
Toluene	4.5		2.0	0.54	ppb v/v			06/05/25 21:35	10
trans-1,3-Dichloropropene	2.0	U	2.0	0.62	ppb v/v			06/05/25 21:35	10
1,1,2-Trichloroethane	2.0	U	2.0	0.53	ppb v/v			06/05/25 21:35	10
Tetrachloroethene	0.46	J	2.0	0.36	ppb v/v			06/05/25 21:35	10
Methyl Butyl Ketone (2-Hexanone)	3.4	J	5.0	2.0	ppb v/v			06/05/25 21:35	10
Dibromochloromethane	2.0	U	2.0	0.53	ppb v/v			06/05/25 21:35	10
1,2-Dibromoethane	2.0	U	2.0	0.45	ppb v/v			06/05/25 21:35	10
Chlorobenzene	2.0	U	2.0	0.47	ppb v/v			06/05/25 21:35	10
Ethylbenzene	2.0	J	2.0	0.51	ppb v/v			06/05/25 21:35	10
m,p-Xylene	5.0		5.0	0.14	ppb v/v			06/05/25 21:35	10
o-Xylene	2.3		2.0	0.69	ppb v/v			06/05/25 21:35	10
Styrene	2.0	U	2.0	0.56	ppb v/v			06/05/25 21:35	10
Bromoform	2.0	U	2.0	0.58	ppb v/v			06/05/25 21:35	10
Cumene	2.0	U	2.0	0.72	ppb v/v			06/05/25 21:35	10
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.61	ppb v/v			06/05/25 21:35	10
n-Propylbenzene	1.0	J	2.0	0.62	ppb v/v			06/05/25 21:35	10
4-Ethyltoluene	1.4	J	2.0	0.68	ppb v/v			06/05/25 21:35	10

Eurofins Burlington

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-6

Lab Sample ID: 200-78231-6

Date Collected: 05/30/25 12:11

Matrix: Air

Date Received: 06/02/25 10:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	1.1	J	2.0	0.68	ppb v/v			06/05/25 21:35	10
2-Chlorotoluene	2.0	U	2.0	0.58	ppb v/v			06/05/25 21:35	10
tert-Butylbenzene	2.0	U	2.0	0.70	ppb v/v			06/05/25 21:35	10
1,2,4-Trimethylbenzene	3.8		2.0	0.82	ppb v/v			06/05/25 21:35	10
sec-Butylbenzene	2.0	U	2.0	0.72	ppb v/v			06/05/25 21:35	10
4-Isopropyltoluene	2.0	U	2.0	0.78	ppb v/v			06/05/25 21:35	10
1,3-Dichlorobenzene	2.0	U	2.0	0.63	ppb v/v			06/05/25 21:35	10
1,4-Dichlorobenzene	2.0	U	2.0	0.70	ppb v/v			06/05/25 21:35	10
Benzyl chloride	2.0	U	2.0	0.74	ppb v/v			06/05/25 21:35	10
n-Butylbenzene	2.0	U	2.0	0.70	ppb v/v			06/05/25 21:35	10
1,2-Dichlorobenzene	2.0	U	2.0	0.66	ppb v/v			06/05/25 21:35	10
1,2,4-Trichlorobenzene	5.0	U	5.0	3.0	ppb v/v			06/05/25 21:35	10
Hexachlorobutadiene	2.0	U	2.0	0.78	ppb v/v			06/05/25 21:35	10
Naphthalene	3.8	U	3.8	1.1	ppb v/v			06/05/25 21:35	10

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	270	U	270	120	ug/m3			06/06/25 03:22	108
Chlorodifluoromethane	190	U	190	140	ug/m3			06/06/25 03:22	108
1,2-Dichlorotetrafluoroethane	150	U	150	57	ug/m3			06/06/25 03:22	108
Chloromethane	110	U	110	74	ug/m3			06/06/25 03:22	108
n-Butane	140	D	130	80	ug/m3			06/06/25 03:22	108
Vinyl chloride	22	U	22	8.0	ug/m3			06/06/25 03:22	108
1,3-Butadiene	48	U	48	9.6	ug/m3			06/06/25 03:22	108
Bromomethane	84	U	84	26	ug/m3			06/06/25 03:22	108
Chloroethane	140	U	140	46	ug/m3			06/06/25 03:22	108
Bromoethene(Vinyl Bromide)	94	U	94	23	ug/m3			06/06/25 03:22	108
Trichlorofluoromethane	120	U	120	47	ug/m3			06/06/25 03:22	108
1,1,2-Trichlorotrifluoroethane	170	U	170	47	ug/m3			06/06/25 03:22	108
1,1-Dichloroethene	22	U	22	15	ug/m3			06/06/25 03:22	108
Acetone	1700	D	1300	490	ug/m3			06/06/25 03:22	108
Isopropyl alcohol	1300	U	1300	580	ug/m3			06/06/25 03:22	108
Carbon disulfide	170	U	170	61	ug/m3			06/06/25 03:22	108
3-Chloropropene	170	U	170	27	ug/m3			06/06/25 03:22	108
Methylene Chloride	190	U	190	71	ug/m3			06/06/25 03:22	108
tert-Butyl alcohol	1600	U	1600	520	ug/m3			06/06/25 03:22	108
Methyl tert-butyl ether	78	U	78	26	ug/m3			06/06/25 03:22	108
trans-1,2-Dichloroethene	86	U	86	8.6	ug/m3			06/06/25 03:22	108
n-Hexane	190	U	190	61	ug/m3			06/06/25 03:22	108
1,1-Dichloroethane	87	U	87	7.9	ug/m3			06/06/25 03:22	108
Methyl Ethyl Ketone (2-Butanone)	51	J D	160	45	ug/m3			06/06/25 03:22	108
cis-1,2-Dichloroethene	22	U	22	14	ug/m3			06/06/25 03:22	108
Chloroform	110	U	110	31	ug/m3			06/06/25 03:22	108
Tetrahydrofuran	1600	U	1600	540	ug/m3			06/06/25 03:22	108
1,1,1-Trichloroethane	120	U	120	43	ug/m3			06/06/25 03:22	108
Cyclohexane	74	U	74	19	ug/m3			06/06/25 03:22	108
Carbon tetrachloride	24	U	24	16	ug/m3			06/06/25 03:22	108
2,2,4-Trimethylpentane	100	U	100	36	ug/m3			06/06/25 03:22	108
Benzene	69	U	69	18	ug/m3			06/06/25 03:22	108

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-6

Lab Sample ID: 200-78231-6

Date Collected: 05/30/25 12:11

Matrix: Air

Date Received: 06/02/25 10:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	87	U	87	32	ug/m3			06/06/25 03:22	108
n-Heptane	89	U	89	38	ug/m3			06/06/25 03:22	108
Trichloroethene	22	U	22	17	ug/m3			06/06/25 03:22	108
Methyl methacrylate	220	U	220	57	ug/m3			06/06/25 03:22	108
1,2-Dichloropropane	100	U	100	27	ug/m3			06/06/25 03:22	108
1,4-Dioxane	1900	U	1900	74	ug/m3			06/06/25 03:22	108
Bromodichloromethane	140	U	140	42	ug/m3			06/06/25 03:22	108
cis-1,3-Dichloropropene	98	U	98	27	ug/m3			06/06/25 03:22	108
4-Methyl-2-pentanone (Methyl isobutyl ketone)	220	U	220	84	ug/m3			06/06/25 03:22	108
Toluene	81	U	81	22	ug/m3			06/06/25 03:22	108
trans-1,3-Dichloropropene	98	U	98	30	ug/m3			06/06/25 03:22	108
1,1,2-Trichloroethane	120	U	120	31	ug/m3			06/06/25 03:22	108
Tetrachloroethene	150	U	150	26	ug/m3			06/06/25 03:22	108
Methyl Butyl Ketone (2-Hexanone)	220	U	220	89	ug/m3			06/06/25 03:22	108
Dibromochloromethane	180	U	180	49	ug/m3			06/06/25 03:22	108
1,2-Dibromoethane	170	U	170	37	ug/m3			06/06/25 03:22	108
Chlorobenzene	99	U	99	23	ug/m3			06/06/25 03:22	108
Ethylbenzene	94	U	94	24	ug/m3			06/06/25 03:22	108
m,p-Xylene	230	U	230	6.6	ug/m3			06/06/25 03:22	108
o-Xylene	94	U	94	32	ug/m3			06/06/25 03:22	108
Styrene	92	U	92	26	ug/m3			06/06/25 03:22	108
Bromoform	220	U	220	65	ug/m3			06/06/25 03:22	108
Cumene	110	U	110	38	ug/m3			06/06/25 03:22	108
1,1,2,2-Tetrachloroethane	150	U	150	45	ug/m3			06/06/25 03:22	108
n-Propylbenzene	110	U	110	33	ug/m3			06/06/25 03:22	108
4-Ethyltoluene	110	U	110	36	ug/m3			06/06/25 03:22	108
1,3,5-Trimethylbenzene	110	U	110	36	ug/m3			06/06/25 03:22	108
2-Chlorotoluene	110	U	110	32	ug/m3			06/06/25 03:22	108
tert-Butylbenzene	120	U	120	42	ug/m3			06/06/25 03:22	108
1,2,4-Trimethylbenzene	110	U	110	44	ug/m3			06/06/25 03:22	108
sec-Butylbenzene	120	U	120	43	ug/m3			06/06/25 03:22	108
4-Isopropyltoluene	120	U	120	46	ug/m3			06/06/25 03:22	108
1,3-Dichlorobenzene	130	U	130	41	ug/m3			06/06/25 03:22	108
1,4-Dichlorobenzene	130	U	130	45	ug/m3			06/06/25 03:22	108
Benzyl chloride	110	U	110	41	ug/m3			06/06/25 03:22	108
n-Butylbenzene	120	U	120	42	ug/m3			06/06/25 03:22	108
1,2-Dichlorobenzene	130	U	130	43	ug/m3			06/06/25 03:22	108
1,2,4-Trichlorobenzene	400	U	400	240	ug/m3			06/06/25 03:22	108
Hexachlorobutadiene	230	U	230	90	ug/m3			06/06/25 03:22	108
Naphthalene	220	U	220	62	ug/m3			06/06/25 03:22	108
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	54	U	54	24	ppb v/v			06/06/25 03:22	108
Chlorodifluoromethane	54	U	54	39	ppb v/v			06/06/25 03:22	108
1,2-Dichlorotetrafluoroethane	22	U	22	8.2	ppb v/v			06/06/25 03:22	108
Chloromethane	54	U	54	36	ppb v/v			06/06/25 03:22	108
n-Butane	60	D	54	33	ppb v/v			06/06/25 03:22	108
Vinyl chloride	8.4	U	8.4	3.1	ppb v/v			06/06/25 03:22	108

Eurofins Burlington

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-6

Lab Sample ID: 200-78231-6

Date Collected: 05/30/25 12:11

Matrix: Air

Date Received: 06/02/25 10:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Butadiene	22	U	22	4.3	ppb v/v			06/06/25 03:22	108
Bromomethane	22	U	22	6.7	ppb v/v			06/06/25 03:22	108
Chloroethane	54	U	54	17	ppb v/v			06/06/25 03:22	108
Bromoethene(Vinyl Bromide)	22	U	22	5.2	ppb v/v			06/06/25 03:22	108
Trichlorofluoromethane	22	U	22	8.3	ppb v/v			06/06/25 03:22	108
1,1,2-Trichlorotrifluoroethane	22	U	22	6.2	ppb v/v			06/06/25 03:22	108
1,1-Dichloroethene	5.4	U	5.4	3.8	ppb v/v			06/06/25 03:22	108
Acetone	710	D	540	210	ppb v/v			06/06/25 03:22	108
Isopropyl alcohol	540	U	540	240	ppb v/v			06/06/25 03:22	108
Carbon disulfide	54	U	54	19	ppb v/v			06/06/25 03:22	108
3-Chloropropene	54	U	54	8.7	ppb v/v			06/06/25 03:22	108
Methylene Chloride	54	U	54	21	ppb v/v			06/06/25 03:22	108
tert-Butyl alcohol	540	U	540	170	ppb v/v			06/06/25 03:22	108
Methyl tert-butyl ether	22	U	22	7.1	ppb v/v			06/06/25 03:22	108
trans-1,2-Dichloroethene	22	U	22	2.2	ppb v/v			06/06/25 03:22	108
n-Hexane	54	U	54	17	ppb v/v			06/06/25 03:22	108
1,1-Dichloroethane	22	U	22	1.9	ppb v/v			06/06/25 03:22	108
Methyl Ethyl Ketone (2-Butanone)	17	J D	54	15	ppb v/v			06/06/25 03:22	108
cis-1,2-Dichloroethene	5.4	U	5.4	3.5	ppb v/v			06/06/25 03:22	108
Chloroform	22	U	22	6.4	ppb v/v			06/06/25 03:22	108
Tetrahydrofuran	540	U	540	180	ppb v/v			06/06/25 03:22	108
1,1,1-Trichloroethane	22	U	22	7.9	ppb v/v			06/06/25 03:22	108
Cyclohexane	22	U	22	5.6	ppb v/v			06/06/25 03:22	108
Carbon tetrachloride	3.8	U	3.8	2.6	ppb v/v			06/06/25 03:22	108
2,2,4-Trimethylpentane	22	U	22	7.7	ppb v/v			06/06/25 03:22	108
Benzene	22	U	22	5.5	ppb v/v			06/06/25 03:22	108
1,2-Dichloroethane	22	U	22	8.0	ppb v/v			06/06/25 03:22	108
n-Heptane	22	U	22	9.3	ppb v/v			06/06/25 03:22	108
Trichloroethene	4.0	U	4.0	3.1	ppb v/v			06/06/25 03:22	108
Methyl methacrylate	54	U	54	14	ppb v/v			06/06/25 03:22	108
1,2-Dichloropropane	22	U	22	5.9	ppb v/v			06/06/25 03:22	108
1,4-Dioxane	540	U	540	21	ppb v/v			06/06/25 03:22	108
Bromodichloromethane	22	U	22	6.3	ppb v/v			06/06/25 03:22	108
cis-1,3-Dichloropropene	22	U	22	6.0	ppb v/v			06/06/25 03:22	108
4-Methyl-2-pentanone (Methyl isobutyl ketone)	54	U	54	21	ppb v/v			06/06/25 03:22	108
Toluene	22	U	22	5.8	ppb v/v			06/06/25 03:22	108
trans-1,3-Dichloropropene	22	U	22	6.7	ppb v/v			06/06/25 03:22	108
1,1,2-Trichloroethane	22	U	22	5.7	ppb v/v			06/06/25 03:22	108
Tetrachloroethene	22	U	22	3.9	ppb v/v			06/06/25 03:22	108
Methyl Butyl Ketone (2-Hexanone)	54	U	54	22	ppb v/v			06/06/25 03:22	108
Dibromochloromethane	22	U	22	5.7	ppb v/v			06/06/25 03:22	108
1,2-Dibromoethane	22	U	22	4.9	ppb v/v			06/06/25 03:22	108
Chlorobenzene	22	U	22	5.1	ppb v/v			06/06/25 03:22	108
Ethylbenzene	22	U	22	5.5	ppb v/v			06/06/25 03:22	108
m,p-Xylene	54	U	54	1.5	ppb v/v			06/06/25 03:22	108
o-Xylene	22	U	22	7.5	ppb v/v			06/06/25 03:22	108
Styrene	22	U	22	6.0	ppb v/v			06/06/25 03:22	108
Bromoform	22	U	22	6.3	ppb v/v			06/06/25 03:22	108

Eurofins Burlington

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-6

Lab Sample ID: 200-78231-6

Date Collected: 05/30/25 12:11

Matrix: Air

Date Received: 06/02/25 10:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cumene	22	U	22	7.8	ppb v/v			06/06/25 03:22	108
1,1,2,2-Tetrachloroethane	22	U	22	6.6	ppb v/v			06/06/25 03:22	108
n-Propylbenzene	22	U	22	6.7	ppb v/v			06/06/25 03:22	108
4-Ethyltoluene	22	U	22	7.3	ppb v/v			06/06/25 03:22	108
1,3,5-Trimethylbenzene	22	U	22	7.3	ppb v/v			06/06/25 03:22	108
2-Chlorotoluene	22	U	22	6.3	ppb v/v			06/06/25 03:22	108
tert-Butylbenzene	22	U	22	7.6	ppb v/v			06/06/25 03:22	108
1,2,4-Trimethylbenzene	22	U	22	8.9	ppb v/v			06/06/25 03:22	108
sec-Butylbenzene	22	U	22	7.8	ppb v/v			06/06/25 03:22	108
4-Isopropyltoluene	22	U	22	8.4	ppb v/v			06/06/25 03:22	108
1,3-Dichlorobenzene	22	U	22	6.8	ppb v/v			06/06/25 03:22	108
1,4-Dichlorobenzene	22	U	22	7.6	ppb v/v			06/06/25 03:22	108
Benzyl chloride	22	U	22	8.0	ppb v/v			06/06/25 03:22	108
n-Butylbenzene	22	U	22	7.6	ppb v/v			06/06/25 03:22	108
1,2-Dichlorobenzene	22	U	22	7.1	ppb v/v			06/06/25 03:22	108
1,2,4-Trichlorobenzene	54	U	54	32	ppb v/v			06/06/25 03:22	108
Hexachlorobutadiene	22	U	22	8.4	ppb v/v			06/06/25 03:22	108
Naphthalene	41	U	41	12	ppb v/v			06/06/25 03:22	108

QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 200-216914/6

Matrix: Air

Analysis Batch: 216914

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	2.5	U	2.5	1.1	ug/m3			06/05/25 11:53	1
Chlorodifluoromethane	1.8	U	1.8	1.3	ug/m3			06/05/25 11:53	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.53	ug/m3			06/05/25 11:53	1
Chloromethane	1.0	U	1.0	0.68	ug/m3			06/05/25 11:53	1
n-Butane	1.2	U	1.2	0.74	ug/m3			06/05/25 11:53	1
Vinyl chloride	0.20	U	0.20	0.074	ug/m3			06/05/25 11:53	1
1,3-Butadiene	0.44	U	0.44	0.088	ug/m3			06/05/25 11:53	1
Bromomethane	0.78	U	0.78	0.24	ug/m3			06/05/25 11:53	1
Chloroethane	1.3	U	1.3	0.42	ug/m3			06/05/25 11:53	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.21	ug/m3			06/05/25 11:53	1
Trichlorofluoromethane	1.1	U	1.1	0.43	ug/m3			06/05/25 11:53	1
1,1,2-Trichlorotrifluoroethane	1.5	U	1.5	0.44	ug/m3			06/05/25 11:53	1
1,1-Dichloroethene	0.20	U	0.20	0.14	ug/m3			06/05/25 11:53	1
Acetone	12	U	12	4.5	ug/m3			06/05/25 11:53	1
Isopropyl alcohol	12	U	12	5.4	ug/m3			06/05/25 11:53	1
Carbon disulfide	0.741	J	1.6	0.56	ug/m3			06/05/25 11:53	1
3-Chloropropene	1.6	U	1.6	0.25	ug/m3			06/05/25 11:53	1
Methylene Chloride	1.7	U	1.7	0.66	ug/m3			06/05/25 11:53	1
tert-Butyl alcohol	15	U	15	4.9	ug/m3			06/05/25 11:53	1
Methyl tert-butyl ether	0.72	U	0.72	0.24	ug/m3			06/05/25 11:53	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.079	ug/m3			06/05/25 11:53	1
n-Hexane	1.8	U	1.8	0.56	ug/m3			06/05/25 11:53	1
1,1-Dichloroethane	0.81	U	0.81	0.073	ug/m3			06/05/25 11:53	1
Methyl Ethyl Ketone (2-Butanone)	1.5	U	1.5	0.41	ug/m3			06/05/25 11:53	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.13	ug/m3			06/05/25 11:53	1
Chloroform	0.98	U	0.98	0.29	ug/m3			06/05/25 11:53	1
Tetrahydrofuran	15	U	15	5.0	ug/m3			06/05/25 11:53	1
1,1,1-Trichloroethane	1.1	U	1.1	0.40	ug/m3			06/05/25 11:53	1
Cyclohexane	0.69	U	0.69	0.18	ug/m3			06/05/25 11:53	1
Carbon tetrachloride	0.22	U	0.22	0.15	ug/m3			06/05/25 11:53	1
2,2,4-Trimethylpentane	0.93	U	0.93	0.33	ug/m3			06/05/25 11:53	1
Benzene	0.64	U	0.64	0.16	ug/m3			06/05/25 11:53	1
1,2-Dichloroethane	0.81	U	0.81	0.30	ug/m3			06/05/25 11:53	1
n-Heptane	0.82	U	0.82	0.35	ug/m3			06/05/25 11:53	1
Trichloroethene	0.20	U	0.20	0.16	ug/m3			06/05/25 11:53	1
Methyl methacrylate	2.0	U	2.0	0.53	ug/m3			06/05/25 11:53	1
1,2-Dichloropropane	0.92	U	0.92	0.25	ug/m3			06/05/25 11:53	1
1,4-Dioxane	18	U	18	0.68	ug/m3			06/05/25 11:53	1
Bromodichloromethane	1.3	U	1.3	0.39	ug/m3			06/05/25 11:53	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.25	ug/m3			06/05/25 11:53	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	2.0	U	2.0	0.78	ug/m3			06/05/25 11:53	1
Toluene	0.75	U	0.75	0.20	ug/m3			06/05/25 11:53	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.28	ug/m3			06/05/25 11:53	1
1,1,2-Trichloroethane	1.1	U	1.1	0.29	ug/m3			06/05/25 11:53	1
Tetrachloroethene	1.4	U	1.4	0.24	ug/m3			06/05/25 11:53	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.82	ug/m3			06/05/25 11:53	1
Dibromochloromethane	1.7	U	1.7	0.45	ug/m3			06/05/25 11:53	1
1,2-Dibromoethane	1.5	U	1.5	0.35	ug/m3			06/05/25 11:53	1

Eurofins Burlington

QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-216914/6

Matrix: Air

Analysis Batch: 216914

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	0.92	U	0.92	0.22	ug/m3			06/05/25 11:53	1
Ethylbenzene	0.87	U	0.87	0.22	ug/m3			06/05/25 11:53	1
m,p-Xylene	2.2	U	2.2	0.061	ug/m3			06/05/25 11:53	1
o-Xylene	0.87	U	0.87	0.30	ug/m3			06/05/25 11:53	1
Styrene	0.85	U	0.85	0.24	ug/m3			06/05/25 11:53	1
Bromoform	2.1	U	2.1	0.60	ug/m3			06/05/25 11:53	1
Cumene	0.98	U	0.98	0.35	ug/m3			06/05/25 11:53	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.42	ug/m3			06/05/25 11:53	1
n-Propylbenzene	0.98	U	0.98	0.30	ug/m3			06/05/25 11:53	1
4-Ethyltoluene	0.98	U	0.98	0.33	ug/m3			06/05/25 11:53	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.33	ug/m3			06/05/25 11:53	1
2-Chlorotoluene	1.0	U	1.0	0.30	ug/m3			06/05/25 11:53	1
tert-Butylbenzene	1.1	U	1.1	0.38	ug/m3			06/05/25 11:53	1
1,2,4-Trimethylbenzene	0.98	U	0.98	0.40	ug/m3			06/05/25 11:53	1
sec-Butylbenzene	1.1	U	1.1	0.40	ug/m3			06/05/25 11:53	1
4-Isopropyltoluene	1.1	U	1.1	0.43	ug/m3			06/05/25 11:53	1
1,3-Dichlorobenzene	1.2	U	1.2	0.38	ug/m3			06/05/25 11:53	1
1,4-Dichlorobenzene	1.2	U	1.2	0.42	ug/m3			06/05/25 11:53	1
Benzyl chloride	1.0	U	1.0	0.38	ug/m3			06/05/25 11:53	1
n-Butylbenzene	1.1	U	1.1	0.38	ug/m3			06/05/25 11:53	1
1,2-Dichlorobenzene	1.2	U	1.2	0.40	ug/m3			06/05/25 11:53	1
1,2,4-Trichlorobenzene	3.7	U	3.7	2.2	ug/m3			06/05/25 11:53	1
Hexachlorobutadiene	2.1	U	2.1	0.83	ug/m3			06/05/25 11:53	1
Naphthalene	2.0	U	2.0	0.58	ug/m3			06/05/25 11:53	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.50	U	0.50	0.22	ppb v/v			06/05/25 11:53	1
Chlorodifluoromethane	0.50	U	0.50	0.36	ppb v/v			06/05/25 11:53	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.076	ppb v/v			06/05/25 11:53	1
Chloromethane	0.50	U	0.50	0.33	ppb v/v			06/05/25 11:53	1
n-Butane	0.50	U	0.50	0.31	ppb v/v			06/05/25 11:53	1
Vinyl chloride	0.078	U	0.078	0.029	ppb v/v			06/05/25 11:53	1
1,3-Butadiene	0.20	U	0.20	0.040	ppb v/v			06/05/25 11:53	1
Bromomethane	0.20	U	0.20	0.062	ppb v/v			06/05/25 11:53	1
Chloroethane	0.50	U	0.50	0.16	ppb v/v			06/05/25 11:53	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.048	ppb v/v			06/05/25 11:53	1
Trichlorofluoromethane	0.20	U	0.20	0.077	ppb v/v			06/05/25 11:53	1
1,1,2-Trichlorotrifluoroethane	0.20	U	0.20	0.057	ppb v/v			06/05/25 11:53	1
1,1-Dichloroethene	0.050	U	0.050	0.035	ppb v/v			06/05/25 11:53	1
Acetone	5.0	U	5.0	1.9	ppb v/v			06/05/25 11:53	1
Isopropyl alcohol	5.0	U	5.0	2.2	ppb v/v			06/05/25 11:53	1
Carbon disulfide	0.238	J	0.50	0.18	ppb v/v			06/05/25 11:53	1
3-Chloropropene	0.50	U	0.50	0.081	ppb v/v			06/05/25 11:53	1
Methylene Chloride	0.50	U	0.50	0.19	ppb v/v			06/05/25 11:53	1
tert-Butyl alcohol	5.0	U	5.0	1.6	ppb v/v			06/05/25 11:53	1
Methyl tert-butyl ether	0.20	U	0.20	0.066	ppb v/v			06/05/25 11:53	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.020	ppb v/v			06/05/25 11:53	1
n-Hexane	0.50	U	0.50	0.16	ppb v/v			06/05/25 11:53	1
1,1-Dichloroethane	0.20	U	0.20	0.018	ppb v/v			06/05/25 11:53	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-216914/6

Matrix: Air

Analysis Batch: 216914

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone (2-Butanone)	0.50	U	0.50	0.14	ppb v/v			06/05/25 11:53	1
cis-1,2-Dichloroethene	0.050	U	0.050	0.032	ppb v/v			06/05/25 11:53	1
Chloroform	0.20	U	0.20	0.059	ppb v/v			06/05/25 11:53	1
Tetrahydrofuran	5.0	U	5.0	1.7	ppb v/v			06/05/25 11:53	1
1,1,1-Trichloroethane	0.20	U	0.20	0.073	ppb v/v			06/05/25 11:53	1
Cyclohexane	0.20	U	0.20	0.052	ppb v/v			06/05/25 11:53	1
Carbon tetrachloride	0.035	U	0.035	0.024	ppb v/v			06/05/25 11:53	1
2,2,4-Trimethylpentane	0.20	U	0.20	0.071	ppb v/v			06/05/25 11:53	1
Benzene	0.20	U	0.20	0.051	ppb v/v			06/05/25 11:53	1
1,2-Dichloroethane	0.20	U	0.20	0.074	ppb v/v			06/05/25 11:53	1
n-Heptane	0.20	U	0.20	0.086	ppb v/v			06/05/25 11:53	1
Trichloroethene	0.037	U	0.037	0.029	ppb v/v			06/05/25 11:53	1
Methyl methacrylate	0.50	U	0.50	0.13	ppb v/v			06/05/25 11:53	1
1,2-Dichloropropane	0.20	U	0.20	0.055	ppb v/v			06/05/25 11:53	1
1,4-Dioxane	5.0	U	5.0	0.19	ppb v/v			06/05/25 11:53	1
Bromodichloromethane	0.20	U	0.20	0.058	ppb v/v			06/05/25 11:53	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.056	ppb v/v			06/05/25 11:53	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	0.50	U	0.50	0.19	ppb v/v			06/05/25 11:53	1
Toluene	0.20	U	0.20	0.054	ppb v/v			06/05/25 11:53	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.062	ppb v/v			06/05/25 11:53	1
1,1,2-Trichloroethane	0.20	U	0.20	0.053	ppb v/v			06/05/25 11:53	1
Tetrachloroethene	0.20	U	0.20	0.036	ppb v/v			06/05/25 11:53	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.20	ppb v/v			06/05/25 11:53	1
Dibromochloromethane	0.20	U	0.20	0.053	ppb v/v			06/05/25 11:53	1
1,2-Dibromoethane	0.20	U	0.20	0.045	ppb v/v			06/05/25 11:53	1
Chlorobenzene	0.20	U	0.20	0.047	ppb v/v			06/05/25 11:53	1
Ethylbenzene	0.20	U	0.20	0.051	ppb v/v			06/05/25 11:53	1
m,p-Xylene	0.50	U	0.50	0.014	ppb v/v			06/05/25 11:53	1
o-Xylene	0.20	U	0.20	0.069	ppb v/v			06/05/25 11:53	1
Styrene	0.20	U	0.20	0.056	ppb v/v			06/05/25 11:53	1
Bromoform	0.20	U	0.20	0.058	ppb v/v			06/05/25 11:53	1
Cumene	0.20	U	0.20	0.072	ppb v/v			06/05/25 11:53	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.061	ppb v/v			06/05/25 11:53	1
n-Propylbenzene	0.20	U	0.20	0.062	ppb v/v			06/05/25 11:53	1
4-Ethyltoluene	0.20	U	0.20	0.068	ppb v/v			06/05/25 11:53	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.068	ppb v/v			06/05/25 11:53	1
2-Chlorotoluene	0.20	U	0.20	0.058	ppb v/v			06/05/25 11:53	1
tert-Butylbenzene	0.20	U	0.20	0.070	ppb v/v			06/05/25 11:53	1
1,2,4-Trimethylbenzene	0.20	U	0.20	0.082	ppb v/v			06/05/25 11:53	1
sec-Butylbenzene	0.20	U	0.20	0.072	ppb v/v			06/05/25 11:53	1
4-Isopropyltoluene	0.20	U	0.20	0.078	ppb v/v			06/05/25 11:53	1
1,3-Dichlorobenzene	0.20	U	0.20	0.063	ppb v/v			06/05/25 11:53	1
1,4-Dichlorobenzene	0.20	U	0.20	0.070	ppb v/v			06/05/25 11:53	1
Benzyl chloride	0.20	U	0.20	0.074	ppb v/v			06/05/25 11:53	1
n-Butylbenzene	0.20	U	0.20	0.070	ppb v/v			06/05/25 11:53	1
1,2-Dichlorobenzene	0.20	U	0.20	0.066	ppb v/v			06/05/25 11:53	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.30	ppb v/v			06/05/25 11:53	1
Hexachlorobutadiene	0.20	U	0.20	0.078	ppb v/v			06/05/25 11:53	1

Eurofins Burlington

QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-216914/6

Matrix: Air

Analysis Batch: 216914

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.38	U	0.38	0.11	ppb v/v			06/05/25 11:53	1

Lab Sample ID: LCS 200-216914/4

Matrix: Air

Analysis Batch: 216914

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	49.4	55.8		ug/m3		113	61 - 142
Chlorodifluoromethane	35.4	34.4		ug/m3		97	60 - 147
1,2-Dichlorotetrafluoroethane	69.9	74.6		ug/m3		107	71 - 141
Chloromethane	20.6	19.5		ug/m3		94	56 - 141
n-Butane	23.8	17.5		ug/m3		74	53 - 151
Vinyl chloride	25.6	20.9		ug/m3		82	61 - 135
1,3-Butadiene	22.1	16.5		ug/m3		75	58 - 139
Bromomethane	38.8	31.0		ug/m3		80	72 - 124
Chloroethane	26.4	22.3		ug/m3		84	68 - 130
Bromoethene(Vinyl Bromide)	43.7	50.6		ug/m3		116	75 - 125
Trichlorofluoromethane	56.2	62.9		ug/m3		112	70 - 129
1,1,2-Trichlorotrifluoroethane	76.6	75.2		ug/m3		98	70 - 121
1,1-Dichloroethene	39.6	37.6		ug/m3		95	68 - 120
Acetone	23.7	18.4		ug/m3		77	54 - 154
Isopropyl alcohol	24.6	19.6		ug/m3		80	53 - 142
Carbon disulfide	31.1	25.9		ug/m3		83	71 - 138
3-Chloropropene	31.3	19.6		ug/m3		63	50 - 150
Methylene Chloride	34.7	25.3		ug/m3		73	59 - 137
tert-Butyl alcohol	30.3	23.9		ug/m3		79	66 - 132
Methyl tert-butyl ether	36.0	31.8		ug/m3		88	70 - 127
trans-1,2-Dichloroethene	39.6	31.4		ug/m3		79	69 - 137
n-Hexane	35.2	26.9		ug/m3		76	63 - 138
1,1-Dichloroethane	40.5	30.6		ug/m3		76	66 - 130
Methyl Ethyl Ketone (2-Butanone)	29.5	23.9		ug/m3		81	72 - 124
cis-1,2-Dichloroethene	39.6	32.5		ug/m3		82	72 - 121
Chloroform	48.8	42.1		ug/m3		86	73 - 124
Tetrahydrofuran	29.5	18.4		ug/m3		62	60 - 149
1,1,1-Trichloroethane	54.6	51.0		ug/m3		93	72 - 127
Cyclohexane	34.4	29.8		ug/m3		86	76 - 124
Carbon tetrachloride	62.9	61.0		ug/m3		97	71 - 133
2,2,4-Trimethylpentane	46.7	36.0		ug/m3		77	68 - 131
Benzene	31.9	25.8		ug/m3		81	73 - 119
1,2-Dichloroethane	40.5	34.6		ug/m3		86	68 - 135
n-Heptane	41.0	29.2		ug/m3		71	60 - 142
Trichloroethene	53.7	46.7		ug/m3		87	73 - 122
Methyl methacrylate	40.9	33.4		ug/m3		82	73 - 129
1,2-Dichloropropane	46.2	34.7		ug/m3		75	69 - 128
1,4-Dioxane	36.0	30.8		ug/m3		85	66 - 129
Bromodichloromethane	67.0	58.5		ug/m3		87	75 - 127
cis-1,3-Dichloropropene	45.4	37.5		ug/m3		83	74 - 125

Eurofins Burlington

QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-216914/4

Matrix: Air

Analysis Batch: 216914

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Methyl-2-pentanone (Methyl isobutyl ketone)	41.0	28.2		ug/m3		69	58 - 144
Toluene	37.7	33.4		ug/m3		89	75 - 122
trans-1,3-Dichloropropene	45.4	41.9		ug/m3		92	74 - 128
1,1,2-Trichloroethane	54.6	45.1		ug/m3		83	75 - 126
Tetrachloroethene	67.8	67.0		ug/m3		99	70 - 125
Methyl Butyl Ketone (2-Hexanone)	41.0	28.2		ug/m3		69	57 - 143
Dibromochloromethane	85.2	79.8		ug/m3		94	73 - 125
1,2-Dibromoethane	76.8	67.9		ug/m3		88	78 - 122
Chlorobenzene	46.0	40.7		ug/m3		88	76 - 119
Ethylbenzene	43.4	37.8		ug/m3		87	74 - 122
m,p-Xylene	86.8	79.6		ug/m3		92	76 - 121
o-Xylene	43.4	40.6		ug/m3		93	73 - 123
Styrene	42.6	40.2		ug/m3		94	74 - 125
Bromoform	103	91.1		ug/m3		88	53 - 149
Cumene	49.1	45.8		ug/m3		93	73 - 123
1,1,2,2-Tetrachloroethane	68.6	53.8		ug/m3		78	74 - 126
n-Propylbenzene	49.1	42.6		ug/m3		87	73 - 127
4-Ethyltoluene	49.2	45.5		ug/m3		92	75 - 129
1,3,5-Trimethylbenzene	49.2	46.2		ug/m3		94	72 - 126
2-Chlorotoluene	51.8	45.1		ug/m3		87	74 - 126
tert-Butylbenzene	54.9	52.1		ug/m3		95	71 - 125
1,2,4-Trimethylbenzene	49.2	45.3		ug/m3		92	71 - 129
sec-Butylbenzene	54.9	50.4		ug/m3		92	70 - 128
4-Isopropyltoluene	54.9	51.2		ug/m3		93	68 - 130
1,3-Dichlorobenzene	60.1	54.2		ug/m3		90	69 - 131
1,4-Dichlorobenzene	60.1	54.8		ug/m3		91	67 - 132
Benzyl chloride	51.8	41.5		ug/m3		80	60 - 136
n-Butylbenzene	54.9	47.4		ug/m3		86	65 - 137
1,2-Dichlorobenzene	60.1	54.4		ug/m3		91	68 - 129
1,2,4-Trichlorobenzene	74.2	75.8		ug/m3		102	50 - 150
Hexachlorobutadiene	107	120		ug/m3		113	58 - 130
Naphthalene	52.4	50.7		ug/m3		97	50 - 150
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	10	11.3		ppb v/v		113	61 - 142
Chlorodifluoromethane	10	9.73		ppb v/v		97	60 - 147
1,2-Dichlorotetrafluoroethane	10	10.7		ppb v/v		107	71 - 141
Chloromethane	10	9.43		ppb v/v		94	56 - 141
n-Butane	10	7.35		ppb v/v		74	53 - 151
Vinyl chloride	10	8.18		ppb v/v		82	61 - 135
1,3-Butadiene	10	7.45		ppb v/v		75	58 - 139
Bromomethane	10	7.97		ppb v/v		80	72 - 124
Chloroethane	10	8.44		ppb v/v		84	68 - 130
Bromoethene(Vinyl Bromide)	10	11.6		ppb v/v		116	75 - 125
Trichlorofluoromethane	10	11.2		ppb v/v		112	70 - 129
1,1,2-Trichlorotrifluoroethane	10	9.81		ppb v/v		98	70 - 121
1,1-Dichloroethene	10	9.47		ppb v/v		95	68 - 120

Eurofins Burlington

QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-216914/4

Matrix: Air

Analysis Batch: 216914

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	10	7.73		ppb v/v		77	54 - 154
Isopropyl alcohol	10	7.98		ppb v/v		80	53 - 142
Carbon disulfide	10	8.31		ppb v/v		83	71 - 138
3-Chloropropene	10	6.26		ppb v/v		63	50 - 150
Methylene Chloride	10	7.27		ppb v/v		73	59 - 137
tert-Butyl alcohol	10	7.87		ppb v/v		79	66 - 132
Methyl tert-butyl ether	10	8.82		ppb v/v		88	70 - 127
trans-1,2-Dichloroethene	10	7.92		ppb v/v		79	69 - 137
n-Hexane	10	7.62		ppb v/v		76	63 - 138
1,1-Dichloroethane	10	7.56		ppb v/v		76	66 - 130
Methyl Ethyl Ketone (2-Butanone)	10	8.10		ppb v/v		81	72 - 124
cis-1,2-Dichloroethene	10	8.20		ppb v/v		82	72 - 121
Chloroform	10	8.61		ppb v/v		86	73 - 124
Tetrahydrofuran	10	6.24		ppb v/v		62	60 - 149
1,1,1-Trichloroethane	10	9.34		ppb v/v		93	72 - 127
Cyclohexane	10	8.64		ppb v/v		86	76 - 124
Carbon tetrachloride	10	9.70		ppb v/v		97	71 - 133
2,2,4-Trimethylpentane	10	7.71		ppb v/v		77	68 - 131
Benzene	10	8.09		ppb v/v		81	73 - 119
1,2-Dichloroethane	10	8.56		ppb v/v		86	68 - 135
n-Heptane	10	7.14		ppb v/v		71	60 - 142
Trichloroethene	10	8.69		ppb v/v		87	73 - 122
Methyl methacrylate	10	8.16		ppb v/v		82	73 - 129
1,2-Dichloropropane	10	7.50		ppb v/v		75	69 - 128
1,4-Dioxane	10	8.54		ppb v/v		85	66 - 129
Bromodichloromethane	10	8.73		ppb v/v		87	75 - 127
cis-1,3-Dichloropropene	10	8.25		ppb v/v		83	74 - 125
4-Methyl-2-pentanone (Methyl isobutyl ketone)	10	6.90		ppb v/v		69	58 - 144
Toluene	10	8.86		ppb v/v		89	75 - 122
trans-1,3-Dichloropropene	10	9.23		ppb v/v		92	74 - 128
1,1,2-Trichloroethane	10	8.27		ppb v/v		83	75 - 126
Tetrachloroethene	10	9.88		ppb v/v		99	70 - 125
Methyl Butyl Ketone (2-Hexanone)	10	6.88		ppb v/v		69	57 - 143
Dibromochloromethane	10	9.37		ppb v/v		94	73 - 125
1,2-Dibromoethane	10	8.84		ppb v/v		88	78 - 122
Chlorobenzene	10	8.84		ppb v/v		88	76 - 119
Ethylbenzene	10	8.71		ppb v/v		87	74 - 122
m,p-Xylene	20	18.3		ppb v/v		92	76 - 121
o-Xylene	10	9.34		ppb v/v		93	73 - 123
Styrene	10	9.43		ppb v/v		94	74 - 125
Bromoform	10	8.82		ppb v/v		88	53 - 149
Cumene	10	9.33		ppb v/v		93	73 - 123
1,1,2,2-Tetrachloroethane	10	7.83		ppb v/v		78	74 - 126
n-Propylbenzene	10	8.67		ppb v/v		87	73 - 127
4-Ethyltoluene	10	9.25		ppb v/v		92	75 - 129
1,3,5-Trimethylbenzene	10	9.40		ppb v/v		94	72 - 126

Eurofins Burlington

QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-216914/4

Matrix: Air

Analysis Batch: 216914

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chlorotoluene	10	8.71		ppb v/v		87	74 - 126
tert-Butylbenzene	10	9.49		ppb v/v		95	71 - 125
1,2,4-Trimethylbenzene	10	9.21		ppb v/v		92	71 - 129
sec-Butylbenzene	10	9.19		ppb v/v		92	70 - 128
4-Isopropyltoluene	10	9.32		ppb v/v		93	68 - 130
1,3-Dichlorobenzene	10	9.02		ppb v/v		90	69 - 131
1,4-Dichlorobenzene	10	9.12		ppb v/v		91	67 - 132
Benzyl chloride	10	8.01		ppb v/v		80	60 - 136
n-Butylbenzene	10	8.64		ppb v/v		86	65 - 137
1,2-Dichlorobenzene	10	9.05		ppb v/v		91	68 - 129
1,2,4-Trichlorobenzene	10	10.2		ppb v/v		102	50 - 150
Hexachlorobutadiene	10	11.3		ppb v/v		113	58 - 130
Naphthalene	10	9.67		ppb v/v		97	50 - 150

Lab Sample ID: 200-78231-6 DU

Matrix: Air

Analysis Batch: 216914

Client Sample ID: RI-VP-6

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Dichlorodifluoromethane	25	U	25	U	ug/m3		NC	25
Chlorodifluoromethane	18	U	18	U	ug/m3		NC	25
1,2-Dichlorotetrafluoroethane	14	U	14	U	ug/m3		NC	25
Chloromethane	10	U	10	U	ug/m3		NC	25
n-Butane	200		158		ug/m3		23	25
Vinyl chloride	2.0	U	2.0	U	ug/m3		NC	25
1,3-Butadiene	4.4	U	1.47	J	ug/m3		NC	25
Bromomethane	7.8	U	7.8	U	ug/m3		NC	25
Chloroethane	13	U	13	U	ug/m3		NC	25
Bromoethene(Vinyl Bromide)	8.7	U	8.7	U	ug/m3		NC	25
Trichlorofluoromethane	11	U	11	U	ug/m3		NC	25
1,1,2-Trichlorotrifluoroethane	15	U	15	U	ug/m3		NC	25
1,1-Dichloroethene	2.0	U	2.0	U	ug/m3		NC	25
Acetone	4900	E	4530	E	ug/m3		7	25
Isopropyl alcohol	83	J	76.3	J	ug/m3		8	25
Carbon disulfide	7.4	J B	6.73	J	ug/m3		10	25
3-Chloropropene	16	U	16	U	ug/m3		NC	25
Methylene Chloride	17	U	17	U	ug/m3		NC	25
tert-Butyl alcohol	150	U	150	U	ug/m3		NC	25
Methyl tert-butyl ether	7.2	U	7.2	U	ug/m3		NC	25
trans-1,2-Dichloroethene	7.9	U	7.9	U	ug/m3		NC	25
n-Hexane	44		41.9		ug/m3		4	25
1,1-Dichloroethane	8.1	U	8.1	U	ug/m3		NC	25
Methyl Ethyl Ketone (2-Butanone)	150		144		ug/m3		7	25
cis-1,2-Dichloroethene	2.0	U	2.0	U	ug/m3		NC	25
Chloroform	9.8	U	9.8	U	ug/m3		NC	25
Tetrahydrofuran	150	U	150	U	ug/m3		NC	25
1,1,1-Trichloroethane	11	U	11	U	ug/m3		NC	25
Cyclohexane	21		20.6		ug/m3		2	25

Eurofins Burlington

QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: 200-78231-6 DU

Matrix: Air

Analysis Batch: 216914

Client Sample ID: RI-VP-6

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Carbon tetrachloride	2.2	U	2.2	U	ug/m3		NC	25
2,2,4-Trimethylpentane	10		9.96		ug/m3		2	25
Benzene	6.4	U	6.4	U	ug/m3		NC	25
1,2-Dichloroethane	8.1	U	8.1	U	ug/m3		NC	25
n-Heptane	37		37.1		ug/m3		0.2	25
Trichloroethene	2.0	U	2.0	U	ug/m3		NC	25
Methyl methacrylate	20	U	20	U	ug/m3		NC	25
1,2-Dichloropropane	9.2	U	9.2	U	ug/m3		NC	25
1,4-Dioxane	180	U	180	U	ug/m3		NC	25
Bromodichloromethane	13	U	13	U	ug/m3		NC	25
cis-1,3-Dichloropropene	9.1	U	9.1	U	ug/m3		NC	25
4-Methyl-2-pentanone (Methyl isobutyl ketone)	20	U	20	U	ug/m3		NC	25
Toluene	17		16.1		ug/m3		6	25
trans-1,3-Dichloropropene	9.1	U	9.1	U	ug/m3		NC	25
1,1,2-Trichloroethane	11	U	11	U	ug/m3		NC	25
Tetrachloroethene	3.1	J	3.00	J	ug/m3		4	25
Methyl Butyl Ketone (2-Hexanone)	14	J	13.4	J	ug/m3		4	25
Dibromochloromethane	17	U	17	U	ug/m3		NC	25
1,2-Dibromoethane	15	U	15	U	ug/m3		NC	25
Chlorobenzene	9.2	U	9.2	U	ug/m3		NC	25
Ethylbenzene	8.5	J	8.32	J	ug/m3		3	25
m,p-Xylene	22		21.5	J	ug/m3		0.4	25
o-Xylene	10		8.56	J	ug/m3		16	25
Styrene	8.5	U	8.5	U	ug/m3		NC	25
Bromoform	21	U	21	U	ug/m3		NC	25
Cumene	9.8	U	9.8	U	ug/m3		NC	25
1,1,2,2-Tetrachloroethane	14	U	14	U	ug/m3		NC	25
n-Propylbenzene	5.1	J	5.26	J	ug/m3		4	25
4-Ethyltoluene	6.7	J	6.26	J	ug/m3		7	25
1,3,5-Trimethylbenzene	5.3	J	5.23	J	ug/m3		2	25
2-Chlorotoluene	10	U	10	U	ug/m3		NC	25
tert-Butylbenzene	11	U	11	U	ug/m3		NC	25
1,2,4-Trimethylbenzene	19		18.4		ug/m3		3	25
sec-Butylbenzene	11	U	11	U	ug/m3		NC	25
4-Isopropyltoluene	11	U	11	U	ug/m3		NC	25
1,3-Dichlorobenzene	12	U	12	U	ug/m3		NC	25
1,4-Dichlorobenzene	12	U	12	U	ug/m3		NC	25
Benzyl chloride	10	U	10	U	ug/m3		NC	25
n-Butylbenzene	11	U	11	U	ug/m3		NC	25
1,2-Dichlorobenzene	12	U	12	U	ug/m3		NC	25
1,2,4-Trichlorobenzene	37	U	37	U	ug/m3		NC	25
Hexachlorobutadiene	21	U	21	U	ug/m3		NC	25
Naphthalene	20	U	20	U	ug/m3		NC	25
Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Dichlorodifluoromethane	5.0	U	5.0	U	ppb v/v		NC	25
Chlorodifluoromethane	5.0	U	5.0	U	ppb v/v		NC	25

Eurofins Burlington

QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: 200-78231-6 DU

Matrix: Air

Analysis Batch: 216914

Client Sample ID: RI-VP-6

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
1,2-Dichlorotetrafluoroethane	2.0	U	2.0	U	ppb v/v		NC	25
Chloromethane	5.0	U	5.0	U	ppb v/v		NC	25
n-Butane	84		66.6		ppb v/v		23	25
Vinyl chloride	0.78	U	0.78	U	ppb v/v		NC	25
1,3-Butadiene	2.0	U	0.665	J	ppb v/v		NC	25
Bromomethane	2.0	U	2.0	U	ppb v/v		NC	25
Chloroethane	5.0	U	5.0	U	ppb v/v		NC	25
Bromoethene(Vinyl Bromide)	2.0	U	2.0	U	ppb v/v		NC	25
Trichlorofluoromethane	2.0	U	2.0	U	ppb v/v		NC	25
1,1,2-Trichlorotrifluoroethane	2.0	U	2.0	U	ppb v/v		NC	25
1,1-Dichloroethene	0.50	U	0.50	U	ppb v/v		NC	25
Acetone	2000	E	1910	E	ppb v/v		7	25
Isopropyl alcohol	34	J	31.1	J	ppb v/v		8	25
Carbon disulfide	2.4	J B	2.16	J	ppb v/v		10	25
3-Chloropropene	5.0	U	5.0	U	ppb v/v		NC	25
Methylene Chloride	5.0	U	5.0	U	ppb v/v		NC	25
tert-Butyl alcohol	50	U	50	U	ppb v/v		NC	25
Methyl tert-butyl ether	2.0	U	2.0	U	ppb v/v		NC	25
trans-1,2-Dichloroethene	2.0	U	2.0	U	ppb v/v		NC	25
n-Hexane	12		11.9		ppb v/v		4	25
1,1-Dichloroethane	2.0	U	2.0	U	ppb v/v		NC	25
Methyl Ethyl Ketone (2-Butanone)	52		48.7		ppb v/v		7	25
cis-1,2-Dichloroethene	0.50	U	0.50	U	ppb v/v		NC	25
Chloroform	2.0	U	2.0	U	ppb v/v		NC	25
Tetrahydrofuran	50	U	50	U	ppb v/v		NC	25
1,1,1-Trichloroethane	2.0	U	2.0	U	ppb v/v		NC	25
Cyclohexane	6.1		5.99		ppb v/v		2	25
Carbon tetrachloride	0.35	U	0.35	U	ppb v/v		NC	25
2,2,4-Trimethylpentane	2.2		2.13		ppb v/v		2	25
Benzene	2.0	U	2.0	U	ppb v/v		NC	25
1,2-Dichloroethane	2.0	U	2.0	U	ppb v/v		NC	25
n-Heptane	9.1		9.05		ppb v/v		0.2	25
Trichloroethene	0.37	U	0.37	U	ppb v/v		NC	25
Methyl methacrylate	5.0	U	5.0	U	ppb v/v		NC	25
1,2-Dichloropropane	2.0	U	2.0	U	ppb v/v		NC	25
1,4-Dioxane	50	U	50	U	ppb v/v		NC	25
Bromodichloromethane	2.0	U	2.0	U	ppb v/v		NC	25
cis-1,3-Dichloropropene	2.0	U	2.0	U	ppb v/v		NC	25
4-Methyl-2-pentanone (Methyl isobutyl ketone)	5.0	U	5.0	U	ppb v/v		NC	25
Toluene	4.5		4.26		ppb v/v		6	25
trans-1,3-Dichloropropene	2.0	U	2.0	U	ppb v/v		NC	25
1,1,2-Trichloroethane	2.0	U	2.0	U	ppb v/v		NC	25
Tetrachloroethene	0.46	J	0.442	J	ppb v/v		4	25
Methyl Butyl Ketone (2-Hexanone)	3.4	J	3.27	J	ppb v/v		4	25
Dibromochloromethane	2.0	U	2.0	U	ppb v/v		NC	25
1,2-Dibromoethane	2.0	U	2.0	U	ppb v/v		NC	25

Eurofins Burlington

QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: 200-78231-6 DU

Matrix: Air

Analysis Batch: 216914

Client Sample ID: RI-VP-6

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chlorobenzene	2.0	U	2.0	U	ppb v/v		NC	25
Ethylbenzene	2.0	J	1.92	J	ppb v/v		3	25
m,p-Xylene	5.0		4.96	J	ppb v/v		0.4	25
o-Xylene	2.3		1.97	J	ppb v/v		16	25
Styrene	2.0	U	2.0	U	ppb v/v		NC	25
Bromoform	2.0	U	2.0	U	ppb v/v		NC	25
Cumene	2.0	U	2.0	U	ppb v/v		NC	25
1,1,2,2-Tetrachloroethane	2.0	U	2.0	U	ppb v/v		NC	25
n-Propylbenzene	1.0	J	1.07	J	ppb v/v		4	25
4-Ethyltoluene	1.4	J	1.27	J	ppb v/v		7	25
1,3,5-Trimethylbenzene	1.1	J	1.06	J	ppb v/v		2	25
2-Chlorotoluene	2.0	U	2.0	U	ppb v/v		NC	25
tert-Butylbenzene	2.0	U	2.0	U	ppb v/v		NC	25
1,2,4-Trimethylbenzene	3.8		3.74		ppb v/v		3	25
sec-Butylbenzene	2.0	U	2.0	U	ppb v/v		NC	25
4-Isopropyltoluene	2.0	U	2.0	U	ppb v/v		NC	25
1,3-Dichlorobenzene	2.0	U	2.0	U	ppb v/v		NC	25
1,4-Dichlorobenzene	2.0	U	2.0	U	ppb v/v		NC	25
Benzyl chloride	2.0	U	2.0	U	ppb v/v		NC	25
n-Butylbenzene	2.0	U	2.0	U	ppb v/v		NC	25
1,2-Dichlorobenzene	2.0	U	2.0	U	ppb v/v		NC	25
1,2,4-Trichlorobenzene	5.0	U	5.0	U	ppb v/v		NC	25
Hexachlorobutadiene	2.0	U	2.0	U	ppb v/v		NC	25
Naphthalene	3.8	U	3.8	U	ppb v/v		NC	25

Lab Sample ID: MB 200-217058/5

Matrix: Air

Analysis Batch: 217058

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	2.5	U	2.5	1.1	ug/m3			06/09/25 10:40	1
Chlorodifluoromethane	1.8	U	1.8	1.3	ug/m3			06/09/25 10:40	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.53	ug/m3			06/09/25 10:40	1
Chloromethane	1.0	U	1.0	0.68	ug/m3			06/09/25 10:40	1
n-Butane	1.2	U	1.2	0.74	ug/m3			06/09/25 10:40	1
Vinyl chloride	0.20	U	0.20	0.074	ug/m3			06/09/25 10:40	1
1,3-Butadiene	0.44	U	0.44	0.088	ug/m3			06/09/25 10:40	1
Bromomethane	0.78	U	0.78	0.24	ug/m3			06/09/25 10:40	1
Chloroethane	1.3	U	1.3	0.42	ug/m3			06/09/25 10:40	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.21	ug/m3			06/09/25 10:40	1
Trichlorofluoromethane	1.1	U	1.1	0.43	ug/m3			06/09/25 10:40	1
1,1,2-Trichlorotrifluoroethane	1.5	U	1.5	0.44	ug/m3			06/09/25 10:40	1
1,1-Dichloroethene	0.20	U	0.20	0.14	ug/m3			06/09/25 10:40	1
Acetone	12	U	12	4.5	ug/m3			06/09/25 10:40	1
Isopropyl alcohol	12	U	12	5.4	ug/m3			06/09/25 10:40	1
Carbon disulfide	1.6	U	1.6	0.56	ug/m3			06/09/25 10:40	1
3-Chloropropene	1.6	U	1.6	0.25	ug/m3			06/09/25 10:40	1
Methylene Chloride	1.7	U	1.7	0.66	ug/m3			06/09/25 10:40	1
tert-Butyl alcohol	15	U	15	4.9	ug/m3			06/09/25 10:40	1

Eurofins Burlington

QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-217058/5

Matrix: Air

Analysis Batch: 217058

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	0.72	U	0.72	0.24	ug/m3			06/09/25 10:40	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.079	ug/m3			06/09/25 10:40	1
n-Hexane	1.8	U	1.8	0.56	ug/m3			06/09/25 10:40	1
1,1-Dichloroethane	0.81	U	0.81	0.073	ug/m3			06/09/25 10:40	1
Methyl Ethyl Ketone (2-Butanone)	1.5	U	1.5	0.41	ug/m3			06/09/25 10:40	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.13	ug/m3			06/09/25 10:40	1
Chloroform	0.98	U	0.98	0.29	ug/m3			06/09/25 10:40	1
Tetrahydrofuran	15	U	15	5.0	ug/m3			06/09/25 10:40	1
1,1,1-Trichloroethane	1.1	U	1.1	0.40	ug/m3			06/09/25 10:40	1
Cyclohexane	0.69	U	0.69	0.18	ug/m3			06/09/25 10:40	1
Carbon tetrachloride	0.22	U	0.22	0.15	ug/m3			06/09/25 10:40	1
2,2,4-Trimethylpentane	0.93	U	0.93	0.33	ug/m3			06/09/25 10:40	1
Benzene	0.64	U	0.64	0.16	ug/m3			06/09/25 10:40	1
1,2-Dichloroethane	0.81	U	0.81	0.30	ug/m3			06/09/25 10:40	1
n-Heptane	0.82	U	0.82	0.35	ug/m3			06/09/25 10:40	1
Trichloroethene	0.20	U	0.20	0.16	ug/m3			06/09/25 10:40	1
Methyl methacrylate	2.0	U	2.0	0.53	ug/m3			06/09/25 10:40	1
1,2-Dichloropropane	0.92	U	0.92	0.25	ug/m3			06/09/25 10:40	1
1,4-Dioxane	18	U	18	0.68	ug/m3			06/09/25 10:40	1
Bromodichloromethane	1.3	U	1.3	0.39	ug/m3			06/09/25 10:40	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.25	ug/m3			06/09/25 10:40	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	2.0	U	2.0	0.78	ug/m3			06/09/25 10:40	1
Toluene	0.75	U	0.75	0.20	ug/m3			06/09/25 10:40	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.28	ug/m3			06/09/25 10:40	1
1,1,2-Trichloroethane	1.1	U	1.1	0.29	ug/m3			06/09/25 10:40	1
Tetrachloroethene	1.4	U	1.4	0.24	ug/m3			06/09/25 10:40	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.82	ug/m3			06/09/25 10:40	1
Dibromochloromethane	1.7	U	1.7	0.45	ug/m3			06/09/25 10:40	1
1,2-Dibromoethane	1.5	U	1.5	0.35	ug/m3			06/09/25 10:40	1
Chlorobenzene	0.92	U	0.92	0.22	ug/m3			06/09/25 10:40	1
Ethylbenzene	0.87	U	0.87	0.22	ug/m3			06/09/25 10:40	1
m,p-Xylene	2.2	U	2.2	0.061	ug/m3			06/09/25 10:40	1
o-Xylene	0.87	U	0.87	0.30	ug/m3			06/09/25 10:40	1
Styrene	0.85	U	0.85	0.24	ug/m3			06/09/25 10:40	1
Bromoform	2.1	U	2.1	0.60	ug/m3			06/09/25 10:40	1
Cumene	0.98	U	0.98	0.35	ug/m3			06/09/25 10:40	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.42	ug/m3			06/09/25 10:40	1
n-Propylbenzene	0.98	U	0.98	0.30	ug/m3			06/09/25 10:40	1
4-Ethyltoluene	0.98	U	0.98	0.33	ug/m3			06/09/25 10:40	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.33	ug/m3			06/09/25 10:40	1
2-Chlorotoluene	1.0	U	1.0	0.30	ug/m3			06/09/25 10:40	1
tert-Butylbenzene	1.1	U	1.1	0.38	ug/m3			06/09/25 10:40	1
1,2,4-Trimethylbenzene	0.98	U	0.98	0.40	ug/m3			06/09/25 10:40	1
sec-Butylbenzene	1.1	U	1.1	0.40	ug/m3			06/09/25 10:40	1
4-Isopropyltoluene	1.1	U	1.1	0.43	ug/m3			06/09/25 10:40	1
1,3-Dichlorobenzene	1.2	U	1.2	0.38	ug/m3			06/09/25 10:40	1
1,4-Dichlorobenzene	1.2	U	1.2	0.42	ug/m3			06/09/25 10:40	1
Benzyl chloride	1.0	U	1.0	0.38	ug/m3			06/09/25 10:40	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-217058/5

Matrix: Air

Analysis Batch: 217058

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	1.1	U	1.1	0.38	ug/m3			06/09/25 10:40	1
1,2-Dichlorobenzene	1.2	U	1.2	0.40	ug/m3			06/09/25 10:40	1
1,2,4-Trichlorobenzene	3.7	U	3.7	2.2	ug/m3			06/09/25 10:40	1
Hexachlorobutadiene	2.1	U	2.1	0.83	ug/m3			06/09/25 10:40	1
Naphthalene	2.0	U	2.0	0.58	ug/m3			06/09/25 10:40	1
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.50	U	0.50	0.22	ppb v/v			06/09/25 10:40	1
Chlorodifluoromethane	0.50	U	0.50	0.36	ppb v/v			06/09/25 10:40	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.076	ppb v/v			06/09/25 10:40	1
Chloromethane	0.50	U	0.50	0.33	ppb v/v			06/09/25 10:40	1
n-Butane	0.50	U	0.50	0.31	ppb v/v			06/09/25 10:40	1
Vinyl chloride	0.078	U	0.078	0.029	ppb v/v			06/09/25 10:40	1
1,3-Butadiene	0.20	U	0.20	0.040	ppb v/v			06/09/25 10:40	1
Bromomethane	0.20	U	0.20	0.062	ppb v/v			06/09/25 10:40	1
Chloroethane	0.50	U	0.50	0.16	ppb v/v			06/09/25 10:40	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.048	ppb v/v			06/09/25 10:40	1
Trichlorofluoromethane	0.20	U	0.20	0.077	ppb v/v			06/09/25 10:40	1
1,1,2-Trichlorotrifluoroethane	0.20	U	0.20	0.057	ppb v/v			06/09/25 10:40	1
1,1-Dichloroethene	0.050	U	0.050	0.035	ppb v/v			06/09/25 10:40	1
Acetone	5.0	U	5.0	1.9	ppb v/v			06/09/25 10:40	1
Isopropyl alcohol	5.0	U	5.0	2.2	ppb v/v			06/09/25 10:40	1
Carbon disulfide	0.50	U	0.50	0.18	ppb v/v			06/09/25 10:40	1
3-Chloropropene	0.50	U	0.50	0.081	ppb v/v			06/09/25 10:40	1
Methylene Chloride	0.50	U	0.50	0.19	ppb v/v			06/09/25 10:40	1
tert-Butyl alcohol	5.0	U	5.0	1.6	ppb v/v			06/09/25 10:40	1
Methyl tert-butyl ether	0.20	U	0.20	0.066	ppb v/v			06/09/25 10:40	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.020	ppb v/v			06/09/25 10:40	1
n-Hexane	0.50	U	0.50	0.16	ppb v/v			06/09/25 10:40	1
1,1-Dichloroethane	0.20	U	0.20	0.018	ppb v/v			06/09/25 10:40	1
Methyl Ethyl Ketone (2-Butanone)	0.50	U	0.50	0.14	ppb v/v			06/09/25 10:40	1
cis-1,2-Dichloroethene	0.050	U	0.050	0.032	ppb v/v			06/09/25 10:40	1
Chloroform	0.20	U	0.20	0.059	ppb v/v			06/09/25 10:40	1
Tetrahydrofuran	5.0	U	5.0	1.7	ppb v/v			06/09/25 10:40	1
1,1,1-Trichloroethane	0.20	U	0.20	0.073	ppb v/v			06/09/25 10:40	1
Cyclohexane	0.20	U	0.20	0.052	ppb v/v			06/09/25 10:40	1
Carbon tetrachloride	0.035	U	0.035	0.024	ppb v/v			06/09/25 10:40	1
2,2,4-Trimethylpentane	0.20	U	0.20	0.071	ppb v/v			06/09/25 10:40	1
Benzene	0.20	U	0.20	0.051	ppb v/v			06/09/25 10:40	1
1,2-Dichloroethane	0.20	U	0.20	0.074	ppb v/v			06/09/25 10:40	1
n-Heptane	0.20	U	0.20	0.086	ppb v/v			06/09/25 10:40	1
Trichloroethene	0.037	U	0.037	0.029	ppb v/v			06/09/25 10:40	1
Methyl methacrylate	0.50	U	0.50	0.13	ppb v/v			06/09/25 10:40	1
1,2-Dichloropropane	0.20	U	0.20	0.055	ppb v/v			06/09/25 10:40	1
1,4-Dioxane	5.0	U	5.0	0.19	ppb v/v			06/09/25 10:40	1
Bromodichloromethane	0.20	U	0.20	0.058	ppb v/v			06/09/25 10:40	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.056	ppb v/v			06/09/25 10:40	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	0.50	U	0.50	0.19	ppb v/v			06/09/25 10:40	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-217058/5

Matrix: Air

Analysis Batch: 217058

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	0.20	U	0.20	0.054	ppb v/v			06/09/25 10:40	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.062	ppb v/v			06/09/25 10:40	1
1,1,2-Trichloroethane	0.20	U	0.20	0.053	ppb v/v			06/09/25 10:40	1
Tetrachloroethene	0.20	U	0.20	0.036	ppb v/v			06/09/25 10:40	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.20	ppb v/v			06/09/25 10:40	1
Dibromochloromethane	0.20	U	0.20	0.053	ppb v/v			06/09/25 10:40	1
1,2-Dibromoethane	0.20	U	0.20	0.045	ppb v/v			06/09/25 10:40	1
Chlorobenzene	0.20	U	0.20	0.047	ppb v/v			06/09/25 10:40	1
Ethylbenzene	0.20	U	0.20	0.051	ppb v/v			06/09/25 10:40	1
m,p-Xylene	0.50	U	0.50	0.014	ppb v/v			06/09/25 10:40	1
o-Xylene	0.20	U	0.20	0.069	ppb v/v			06/09/25 10:40	1
Styrene	0.20	U	0.20	0.056	ppb v/v			06/09/25 10:40	1
Bromoform	0.20	U	0.20	0.058	ppb v/v			06/09/25 10:40	1
Cumene	0.20	U	0.20	0.072	ppb v/v			06/09/25 10:40	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.061	ppb v/v			06/09/25 10:40	1
n-Propylbenzene	0.20	U	0.20	0.062	ppb v/v			06/09/25 10:40	1
4-Ethyltoluene	0.20	U	0.20	0.068	ppb v/v			06/09/25 10:40	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.068	ppb v/v			06/09/25 10:40	1
2-Chlorotoluene	0.20	U	0.20	0.058	ppb v/v			06/09/25 10:40	1
tert-Butylbenzene	0.20	U	0.20	0.070	ppb v/v			06/09/25 10:40	1
1,2,4-Trimethylbenzene	0.20	U	0.20	0.082	ppb v/v			06/09/25 10:40	1
sec-Butylbenzene	0.20	U	0.20	0.072	ppb v/v			06/09/25 10:40	1
4-Isopropyltoluene	0.20	U	0.20	0.078	ppb v/v			06/09/25 10:40	1
1,3-Dichlorobenzene	0.20	U	0.20	0.063	ppb v/v			06/09/25 10:40	1
1,4-Dichlorobenzene	0.20	U	0.20	0.070	ppb v/v			06/09/25 10:40	1
Benzyl chloride	0.20	U	0.20	0.074	ppb v/v			06/09/25 10:40	1
n-Butylbenzene	0.20	U	0.20	0.070	ppb v/v			06/09/25 10:40	1
1,2-Dichlorobenzene	0.20	U	0.20	0.066	ppb v/v			06/09/25 10:40	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.30	ppb v/v			06/09/25 10:40	1
Hexachlorobutadiene	0.20	U	0.20	0.078	ppb v/v			06/09/25 10:40	1
Naphthalene	0.38	U	0.38	0.11	ppb v/v			06/09/25 10:40	1

Lab Sample ID: LCS 200-217058/3

Matrix: Air

Analysis Batch: 217058

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	49.4	46.8		ug/m3		95	61 - 142
Chlorodifluoromethane	35.4	34.9		ug/m3		99	60 - 147
1,2-Dichlorotetrafluoroethane	69.9	67.2		ug/m3		96	71 - 141
Chloromethane	20.6	21.0		ug/m3		102	56 - 141
n-Butane	23.8	24.8		ug/m3		104	53 - 151
Vinyl chloride	25.6	26.0		ug/m3		102	61 - 135
1,3-Butadiene	22.1	21.2		ug/m3		96	58 - 139
Bromomethane	38.8	37.6		ug/m3		97	72 - 124
Chloroethane	26.4	27.0		ug/m3		102	68 - 130
Bromoethene(Vinyl Bromide)	43.7	43.1		ug/m3		98	75 - 125
Trichlorofluoromethane	56.2	53.1		ug/m3		94	70 - 129
1,1,2-Trichlorotrifluoroethane	76.6	70.3		ug/m3		92	70 - 121

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-217058/3

Matrix: Air

Analysis Batch: 217058

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	39.6	37.5		ug/m3		95	68 - 120
Acetone	23.7	24.4		ug/m3		103	54 - 154
Isopropyl alcohol	24.6	27.8		ug/m3		113	53 - 142
Carbon disulfide	31.1	30.2		ug/m3		97	71 - 138
3-Chloropropene	31.3	33.4		ug/m3		107	50 - 150
Methylene Chloride	34.7	35.0		ug/m3		101	59 - 137
tert-Butyl alcohol	30.3	29.9		ug/m3		99	66 - 132
Methyl tert-butyl ether	36.0	35.9		ug/m3		100	70 - 127
trans-1,2-Dichloroethene	39.6	40.4		ug/m3		102	69 - 137
n-Hexane	35.2	35.9		ug/m3		102	63 - 138
1,1-Dichloroethane	40.5	39.8		ug/m3		98	66 - 130
Methyl Ethyl Ketone	29.5	29.2		ug/m3		99	72 - 124
(2-Butanone)							
cis-1,2-Dichloroethene	39.6	36.1		ug/m3		91	72 - 121
Chloroform	48.8	46.9		ug/m3		96	73 - 124
Tetrahydrofuran	29.5	30.1		ug/m3		102	60 - 149
1,1,1-Trichloroethane	54.6	51.2		ug/m3		94	72 - 127
Cyclohexane	34.4	33.3		ug/m3		97	76 - 124
Carbon tetrachloride	62.9	59.9		ug/m3		95	71 - 133
2,2,4-Trimethylpentane	46.7	48.4		ug/m3		104	68 - 131
Benzene	31.9	31.2		ug/m3		98	73 - 119
1,2-Dichloroethane	40.5	39.4		ug/m3		97	68 - 135
n-Heptane	41.0	43.9		ug/m3		107	60 - 142
Trichloroethene	53.7	51.5		ug/m3		96	73 - 122
Methyl methacrylate	40.9	41.2		ug/m3		101	73 - 129
1,2-Dichloropropane	46.2	47.0		ug/m3		102	69 - 128
1,4-Dioxane	36.0	35.4		ug/m3		98	66 - 129
Bromodichloromethane	67.0	65.3		ug/m3		97	75 - 127
cis-1,3-Dichloropropene	45.4	45.0		ug/m3		99	74 - 125
4-Methyl-2-pentanone (Methyl isobutyl ketone)	41.0	43.8		ug/m3		107	58 - 144
Toluene	37.7	36.8		ug/m3		98	75 - 122
trans-1,3-Dichloropropene	45.4	49.4		ug/m3		109	74 - 128
1,1,2-Trichloroethane	54.6	54.8		ug/m3		100	75 - 126
Tetrachloroethene	67.8	62.9		ug/m3		93	70 - 125
Methyl Butyl Ketone	41.0	45.1		ug/m3		110	57 - 143
(2-Hexanone)							
Dibromochloromethane	85.2	81.0		ug/m3		95	73 - 125
1,2-Dibromoethane	76.8	74.7		ug/m3		97	78 - 122
Chlorobenzene	46.0	43.9		ug/m3		95	76 - 119
Ethylbenzene	43.4	42.9		ug/m3		99	74 - 122
m,p-Xylene	86.8	85.3		ug/m3		98	76 - 121
o-Xylene	43.4	43.1		ug/m3		99	73 - 123
Styrene	42.6	43.4		ug/m3		102	74 - 125
Bromoform	103	98.9		ug/m3		96	53 - 149
Cumene	49.1	49.1		ug/m3		100	73 - 123
1,1,2,2-Tetrachloroethane	68.6	70.3		ug/m3		102	74 - 126
n-Propylbenzene	49.1	50.3		ug/m3		102	73 - 127
4-Ethyltoluene	49.2	50.2		ug/m3		102	75 - 129

Eurofins Burlington

QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-217058/3

Matrix: Air

Analysis Batch: 217058

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3,5-Trimethylbenzene	49.2	49.5		ug/m3		101	72 - 126
2-Chlorotoluene	51.8	52.1		ug/m3		101	74 - 126
tert-Butylbenzene	54.9	54.3		ug/m3		99	71 - 125
1,2,4-Trimethylbenzene	49.2	49.6		ug/m3		101	71 - 129
sec-Butylbenzene	54.9	55.6		ug/m3		101	70 - 128
4-Isopropyltoluene	54.9	54.0		ug/m3		98	68 - 130
1,3-Dichlorobenzene	60.1	58.4		ug/m3		97	69 - 131
1,4-Dichlorobenzene	60.1	59.2		ug/m3		99	67 - 132
Benzyl chloride	51.8	55.7		ug/m3		108	60 - 136
n-Butylbenzene	54.9	56.2		ug/m3		102	65 - 137
1,2-Dichlorobenzene	60.1	57.9		ug/m3		96	68 - 129
1,2,4-Trichlorobenzene	74.2	79.8		ug/m3		108	50 - 150
Hexachlorobutadiene	107	104		ug/m3		97	58 - 130
Naphthalene	52.4	61.6		ug/m3		118	50 - 150
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	10	9.45		ppb v/v		95	61 - 142
Chlorodifluoromethane	10	9.86		ppb v/v		99	60 - 147
1,2-Dichlorotetrafluoroethane	10	9.61		ppb v/v		96	71 - 141
Chloromethane	10	10.2		ppb v/v		102	56 - 141
n-Butane	10	10.4		ppb v/v		104	53 - 151
Vinyl chloride	10	10.2		ppb v/v		102	61 - 135
1,3-Butadiene	10	9.57		ppb v/v		96	58 - 139
Bromomethane	10	9.67		ppb v/v		97	72 - 124
Chloroethane	10	10.2		ppb v/v		102	68 - 130
Bromoethene(Vinyl Bromide)	10	9.85		ppb v/v		98	75 - 125
Trichlorofluoromethane	10	9.45		ppb v/v		94	70 - 129
1,1,2-Trichlorotrifluoroethane	10	9.17		ppb v/v		92	70 - 121
1,1-Dichloroethene	10	9.45		ppb v/v		95	68 - 120
Acetone	10	10.3		ppb v/v		103	54 - 154
Isopropyl alcohol	10	11.3		ppb v/v		113	53 - 142
Carbon disulfide	10	9.71		ppb v/v		97	71 - 138
3-Chloropropene	10	10.7		ppb v/v		107	50 - 150
Methylene Chloride	10	10.1		ppb v/v		101	59 - 137
tert-Butyl alcohol	10	9.87		ppb v/v		99	66 - 132
Methyl tert-butyl ether	10	9.96		ppb v/v		100	70 - 127
trans-1,2-Dichloroethene	10	10.2		ppb v/v		102	69 - 137
n-Hexane	10	10.2		ppb v/v		102	63 - 138
1,1-Dichloroethane	10	9.84		ppb v/v		98	66 - 130
Methyl Ethyl Ketone (2-Butanone)	10	9.90		ppb v/v		99	72 - 124
cis-1,2-Dichloroethene	10	9.11		ppb v/v		91	72 - 121
Chloroform	10	9.61		ppb v/v		96	73 - 124
Tetrahydrofuran	10	10.2		ppb v/v		102	60 - 149
1,1,1-Trichloroethane	10	9.39		ppb v/v		94	72 - 127
Cyclohexane	10	9.68		ppb v/v		97	76 - 124
Carbon tetrachloride	10	9.52		ppb v/v		95	71 - 133
2,2,4-Trimethylpentane	10	10.3		ppb v/v		104	68 - 131
Benzene	10	9.77		ppb v/v		98	73 - 119

Eurofins Burlington

QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-217058/3

Matrix: Air

Analysis Batch: 217058

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloroethane	10	9.72		ppb v/v		97	68 - 135
n-Heptane	10	10.7		ppb v/v		107	60 - 142
Trichloroethene	10	9.58		ppb v/v		96	73 - 122
Methyl methacrylate	10	10.1		ppb v/v		101	73 - 129
1,2-Dichloropropane	10	10.2		ppb v/v		102	69 - 128
1,4-Dioxane	10	9.81		ppb v/v		98	66 - 129
Bromodichloromethane	10	9.74		ppb v/v		97	75 - 127
cis-1,3-Dichloropropene	10	9.92		ppb v/v		99	74 - 125
4-Methyl-2-pentanone (Methyl isobutyl ketone)	10	10.7		ppb v/v		107	58 - 144
Toluene	10	9.77		ppb v/v		98	75 - 122
trans-1,3-Dichloropropene	10	10.9		ppb v/v		109	74 - 128
1,1,2-Trichloroethane	10	10.0		ppb v/v		100	75 - 126
Tetrachloroethene	10	9.27		ppb v/v		93	70 - 125
Methyl Butyl Ketone (2-Hexanone)	10	11.0		ppb v/v		110	57 - 143
Dibromochloromethane	10	9.51		ppb v/v		95	73 - 125
1,2-Dibromoethane	10	9.72		ppb v/v		97	78 - 122
Chlorobenzene	10	9.55		ppb v/v		95	76 - 119
Ethylbenzene	10	9.88		ppb v/v		99	74 - 122
m,p-Xylene	20	19.7		ppb v/v		98	76 - 121
o-Xylene	10	9.92		ppb v/v		99	73 - 123
Styrene	10	10.2		ppb v/v		102	74 - 125
Bromoform	10	9.57		ppb v/v		96	53 - 149
Cumene	10	9.99		ppb v/v		100	73 - 123
1,1,2,2-Tetrachloroethane	10	10.2		ppb v/v		102	74 - 126
n-Propylbenzene	10	10.2		ppb v/v		102	73 - 127
4-Ethyltoluene	10	10.2		ppb v/v		102	75 - 129
1,3,5-Trimethylbenzene	10	10.1		ppb v/v		101	72 - 126
2-Chlorotoluene	10	10.1		ppb v/v		101	74 - 126
tert-Butylbenzene	10	9.89		ppb v/v		99	71 - 125
1,2,4-Trimethylbenzene	10	10.1		ppb v/v		101	71 - 129
sec-Butylbenzene	10	10.1		ppb v/v		101	70 - 128
4-Isopropyltoluene	10	9.84		ppb v/v		98	68 - 130
1,3-Dichlorobenzene	10	9.71		ppb v/v		97	69 - 131
1,4-Dichlorobenzene	10	9.85		ppb v/v		99	67 - 132
Benzyl chloride	10	10.8		ppb v/v		108	60 - 136
n-Butylbenzene	10	10.2		ppb v/v		102	65 - 137
1,2-Dichlorobenzene	10	9.63		ppb v/v		96	68 - 129
1,2,4-Trichlorobenzene	10	10.7		ppb v/v		108	50 - 150
Hexachlorobutadiene	10	9.71		ppb v/v		97	58 - 130
Naphthalene	10	11.8		ppb v/v		118	50 - 150

Eurofins Burlington

QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Air - GC/MS VOA

Analysis Batch: 216914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-78231-1	RI-VP-1	Total/NA	Air	TO-15	
200-78231-2 - DL	RI-VP-2	Total/NA	Air	TO-15	
200-78231-2	RI-VP-2	Total/NA	Air	TO-15	
200-78231-3	RI-VP-3	Total/NA	Air	TO-15	
200-78231-3 - DL	RI-VP-3	Total/NA	Air	TO-15	
200-78231-4	RI-VP-4	Total/NA	Air	TO-15	
200-78231-4 - DL	RI-VP-4	Total/NA	Air	TO-15	
200-78231-5	RI-VP-5	Total/NA	Air	TO-15	
200-78231-6	RI-VP-6	Total/NA	Air	TO-15	
200-78231-6 - DL	RI-VP-6	Total/NA	Air	TO-15	
MB 200-216914/6	Method Blank	Total/NA	Air	TO-15	
LCS 200-216914/4	Lab Control Sample	Total/NA	Air	TO-15	
200-78231-6 DU	RI-VP-6	Total/NA	Air	TO-15	

Analysis Batch: 217058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-78231-1 - DL	RI-VP-1	Total/NA	Air	TO-15	
200-78231-5 - DL	RI-VP-5	Total/NA	Air	TO-15	
MB 200-217058/5	Method Blank	Total/NA	Air	TO-15	
LCS 200-217058/3	Lab Control Sample	Total/NA	Air	TO-15	

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Client Sample ID: RI-VP-1

Date Collected: 05/30/25 11:53

Date Received: 06/02/25 10:00

Lab Sample ID: 200-78231-1

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15	DL	189	217058	K1P	EET BUR	06/09/25 14:09
Total/NA	Analysis	TO-15		41.2	216914	K1P	EET BUR	06/06/25 01:27

Client Sample ID: RI-VP-2

Date Collected: 05/30/25 12:03

Date Received: 06/02/25 10:00

Lab Sample ID: 200-78231-2

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15	DL	10	216914	K1P	EET BUR	06/05/25 14:48
Total/NA	Analysis	TO-15		1	216914	K1P	EET BUR	06/05/25 15:47

Client Sample ID: RI-VP-3

Date Collected: 05/30/25 11:56

Date Received: 06/02/25 10:00

Lab Sample ID: 200-78231-3

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		10	216914	K1P	EET BUR	06/05/25 16:44
Total/NA	Analysis	TO-15	DL	40.4	216914	K1P	EET BUR	06/06/25 02:25

Client Sample ID: RI-VP-4

Date Collected: 05/30/25 11:49

Date Received: 06/02/25 10:00

Lab Sample ID: 200-78231-4

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		1	216914	K1P	EET BUR	06/05/25 17:44
Total/NA	Analysis	TO-15	DL	10	216914	K1P	EET BUR	06/05/25 18:42

Client Sample ID: RI-VP-5

Date Collected: 05/30/25 11:42

Date Received: 06/02/25 10:00

Lab Sample ID: 200-78231-5

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15	DL	94.2	217058	K1P	EET BUR	06/09/25 15:00
Total/NA	Analysis	TO-15		10	216914	K1P	EET BUR	06/05/25 20:38

Client Sample ID: RI-VP-6

Date Collected: 05/30/25 12:11

Date Received: 06/02/25 10:00

Lab Sample ID: 200-78231-6

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		10	216914	K1P	EET BUR	06/05/25 21:35
Total/NA	Analysis	TO-15	DL	108	216914	K1P	EET BUR	06/06/25 03:22

Laboratory References:

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Eurofins Burlington

Accreditation/Certification Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Laboratory: Eurofins Burlington

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Jersey	NELAP	VT972	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
TO-15		Air	4-Isopropyltoluene
TO-15		Air	Chlorodifluoromethane
TO-15		Air	n-Butane
TO-15		Air	n-Butylbenzene
TO-15		Air	n-Propylbenzene
TO-15		Air	sec-Butylbenzene
TO-15		Air	tert-Butylbenzene

New York	NELAP	10391	03-31-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
TO-15		Air	4-Ethyltoluene
TO-15		Air	4-Isopropyltoluene
TO-15		Air	Chlorodifluoromethane
TO-15		Air	Methyl Butyl Ketone (2-Hexanone)
TO-15		Air	n-Butane
TO-15		Air	n-Butylbenzene
TO-15		Air	n-Propylbenzene
TO-15		Air	sec-Butylbenzene
TO-15		Air	tert-Butylbenzene
TO-15		Air	Tetrahydrofuran

Method Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	EET BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 166 E 4th Street, Dunkirk, NY

Job ID: 200-78231-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
200-78231-1	RI-VP-1	Air	05/30/25 11:53	06/02/25 10:00	Air Canister (6-Liter) #5021
200-78231-2	RI-VP-2	Air	05/30/25 12:03	06/02/25 10:00	Air Canister (6-Liter) #4925
200-78231-3	RI-VP-3	Air	05/30/25 11:56	06/02/25 10:00	Air Canister (6-Liter) #5430
200-78231-4	RI-VP-4	Air	05/30/25 11:49	06/02/25 10:00	Air Canister (6-Liter) #5448
200-78231-5	RI-VP-5	Air	05/30/25 11:42	06/02/25 10:00	Air Canister (6-Liter) #4786
200-78231-6	RI-VP-6	Air	05/30/25 12:11	06/02/25 10:00	Air Canister (6-Liter) #3290

Canister Samples Chain of Custody Record



200-78231 Chain of Custody

[illegible]

Part # 1562974256-0000EXP 01/26

ORIGIN ID: BUFA (585) 967-7285
JASON
4498 MAIN ST STE 4
BUFFALO, NY 14226
UNITED STATES US

SHIP DATE: 30MAY25
ACTWT: 17.00 LB
CAD: 6993855/SSFE2600
DIMS: 21x10x16 IN
BILL THIRD PARTY

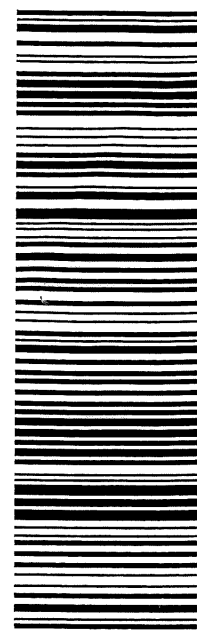
TO EUROFINS TEST AMERICA
BURLINGTON
530 COMMUNITY DRIVE SUITE 11
SOUTH BURLINGTON VT 05403

(802) 660-1980
REF: PO: DEPT: 1

1252025040801 BY
FedEx
Express
E

2 of 2
MON - 02 JUN 10:30A
PRIORITY OVERNIGHT
MPS# 2892 5527 6653
Mstr# 2892 5527 6642
0201

K9 BTVA
05403
VT-US BTV



1562974256-0000EXP 01/26

JASON
4498 MAIN ST STE 4
BUFFALO, NY 14226
UNITED STATES US

CAD: 6993855/SSFE2600
DIMS: 21x21x17 IN
BILL THIRD PARTY

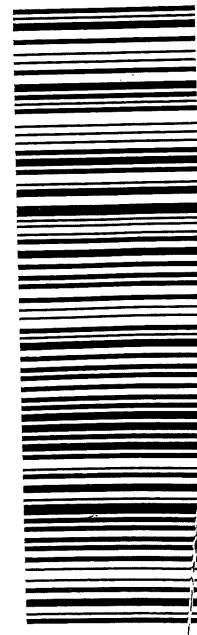
TO EUROFINS TEST AMERICA
BURLINGTON
530 COMMUNITY DRIVE SUITE 11
SOUTH BURLINGTON VT 05403

(802) 660-1980
REF: PO: DEPT: 1

1252025040801 BY
FedEx
Express
E

1 of 2
MON - 02 JUN 10:30A
PRIORITY OVERNIGHT
TRK# 2892 5527 6642
MASTER ##
0201

K9 BTVA
05403
VT-US BTV



Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 200-78231-1

Login Number: 78231

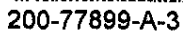
List Source: Eurofins Burlington

List Number: 1

Creator: Reynolds, Jamie K

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	Seal present with no number.
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	Thermal preservation not required.
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Canister Cleaning & Pre-Shipment Leak Test



6260
Location: Air-Storage
Bottle: Summa Canister 8L
Sampled: 5/2/2025 12:00 AM 200-1997007

77899

#3 A Air-Storage

¹ Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

If time frame was not met, the PM must authorize shipment of canister

PM Authorization

ent of canister

Date:

[illegible]

Inventory Level 1: Individual Canister Certification (TO15LL 0.01):

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Dup TeesVac gauges (enter IDs if included):

Form ID: FAI023-12

Revision Date: 12/18/2018

TestAmerica Burlington

Canister Cleaning & Pre-Shipment Leak Test															
System ID		Max DF#	# Cycles	Cleaning Start Date/Time		System Start Temp(s)		Technician		Can Size		Certification Type:			
Bottom Rack		10	25	5/2/2025	1445	21	21	SML III		6 liter		batch			
Port	Can ID	Initial ¹ (psia)	Final (psia)	Drift ²	Final ("Hg)	Gauge:	Date:	Time:	Tech:	Temp:	Gauge:	Date:	Time:	Tech:	Temp:
1	2699	0	0	0	-29.8	GA01	5/3/25	11/3	AB3	21.0	GA01	5/13/25	1333	AB3	23.0
2	34001295	1	1	0		GA01					GA01				
3	5638	0	0	0		GA01	5/13/25	1253	AB3	21.0	GA01				
4	34000294	0	0	0		GA01	5/13/25	1113	AB3	21.6	GA01				
5	4925	1	1	0		GA01					GA01				
6	3322			0		GA01					GA01				
7	4786			0		GA01					GA01				
8	5021			0		GA01					GA01				
9	5448			0		GA01					GA01				
10	4790			0		GA01					GA01				
11	2567			0		GA01					GA01				
12	3419	1	1	0		GA01					GA01				

8638
Location: Air-Storage
Bottle: Summa Canister 6L
Sampled: 5/2/2025 12:00 AM 200-1997019

Loc: 200
77900
#3 A
Air-Storage

¹ Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

² Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister

PM Authorization

Date:

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ☒ T015 Routine ☐ T015 LL

Can ID	Date	Sequence	Analyst
Test Method: ☒ TO15 Routine ☐ TO15 LL			

Inventory Level

Secondary Review

[illegible]

5638	5/17/25	65019	AD1	xxxxxx	5/17/25	508
5639	5/17/25	65019	AD1	xxxxxx	5/17/25	508

[illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible]

Inventory Level	Comments
Inventory Level 1: Individual Canister Certification (1015LL 0.01).	
Inventory Level 2: Individual Canister Certification (1015LL 0.04).	

Inventory Level 2:	Individual or Batch Certification (10/15 0.04 ppbv):
1	0.04
2	0.04
3	0.04
4	0.04
5	0.04
6	0.04
7	0.04
8	0.04
9	0.04
10	0.04
11	0.04
12	0.04
13	0.04
14	0.04
15	0.04
16	0.04
17	0.04
18	0.04
19	0.04
20	0.04
21	0.04
22	0.04
23	0.04
24	0.04
25	0.04
26	0.04
27	0.04
28	0.04
29	0.04
30	0.04
31	0.04
32	0.04
33	0.04
34	0.04
35	0.04
36	0.04
37	0.04
38	0.04
39	0.04
40	0.04
41	0.04
42	0.04
43	0.04
44	0.04
45	0.04
46	0.04
47	0.04
48	0.04
49	0.04
50	0.04
51	0.04
52	0.04
53	0.04
54	0.04
55	0.04
56	0.04
57	0.04
58	0.04
59	0.04
60	0.04
61	0.04
62	0.04
63	0.04
64	0.04
65	0.04
66	0.04
67	0.04
68	0.04
69	0.04
70	0.04
71	0.04
72	0.04
73	0.04
74	0.04
75	0.04
76	0.04
77	0.04
78	0.04
79	0.04
80	0.04
81	0.04
82	0.04
83	0.04
84	0.04
85	0.04
86	0.04
87	0.04
88	0.04
89	0.04
90	0.04
91	0.04
92	0.04
93	0.04
94	0.04
95	0.04
96	0.04
97	0.04
98	0.04
99	0.04
100	0.04

Inventory Level 3: Individual or Batch Certification (1.015 0.2 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Dup lees/vac gauges (enter IDs if included):

Form ID: EA1023:12

Form ID: PA023.12
Revision Date: 12/18/2018
TestAmerica Burlington

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FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-77899-1
 SDG No.: _____
 Client Sample ID: 6260 Lab Sample ID: 200-77899-3
 Matrix: Air Lab File ID: 65018_006.D
 Analysis Method: TO-15 Date Collected: 05/02/2025 00:00
 Sample wt/vol: 1000 (mL) Date Analyzed: 05/06/2025 12:07
 Soil Aliquot Vol: _____ Dilution Factor: 0.2
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 Purge Volume: _____ Heated Purge: (Y/N) _____ pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 215870 Units: ppb v/v
 Preparation Batch No.: _____ Instrument ID: CHAN.i

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.028	U	0.028	0.028
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene (Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.028	U	0.028	0.028
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.10	U	0.10	0.10
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.028	U	0.028	0.028
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Burlington</u>	Job No.: <u>200-77899-1</u>
SDG No.: _____	
Client Sample ID: <u>6260</u>	Lab Sample ID: <u>200-77899-3</u>
Matrix: <u>Air</u>	Lab File ID: <u>65018_006.D</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>05/02/2025 00:00</u>
Sample wt/vol: <u>1000 (mL)</u>	Date Analyzed: <u>05/06/2025 12:07</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>0.2</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
Purge Volume: _____	Heated Purge: (Y/N) _____ pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>215870</u>	Units: <u>ppb v/v</u>
Preparation Batch No.: _____	Instrument ID: <u>CHAN.i</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.028	U	0.028	0.028
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.028	U	0.028	0.028
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-77899-1
 SDG No.: _____
 Client Sample ID: 6260 Lab Sample ID: 200-77899-3
 Matrix: Air Lab File ID: 65018_006.D
 Analysis Method: TO-15 Date Collected: 05/02/2025 00:00
 Sample wt/vol: 1000 (mL) Date Analyzed: 05/06/2025 12:07
 Soil Aliquot Vol: _____ Dilution Factor: 0.2
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 Purge Volume: _____ Heated Purge: (Y/N) _____ pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 215870 Units: ppb v/v
 Preparation Batch No.: _____ Instrument ID: CHAN.i

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHAN.i\20250506-65018.b\65018_006.D
 Lims ID: 200-77899-A-3
 Client ID: 6260
 Sample Type: Client
 Inject. Date: 06-May-2025 12:07:04 ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Sample Info: 200-0065018-006
 Operator ID: wrd Instrument ID: CHAN.i
 Method: \\chromfs\Burlington\ChromData\CHAN.i\20250506-65018.b\TO15_TO3_Master_Method_AN.m
 Limit Group: AI_TO15_ICAL
 Last Update: 07-May-2025 08:29:29 Calib Date: 16-Apr-2025 10:13:55
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\CHAN.i\20250415-64733.b\64733_021.D
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
 Process Host: CTX1659

First Level Reviewer: F7XK

Date: 07-May-2025 08:29:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		4.342				ND	7
2 Dichlorodifluoromethane	85		4.444				ND	
3 Chlorodifluoromethane	51		4.481				ND	
4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		4.802				ND	
5 Chloromethane	50		4.920				ND	7
6 Vinyl chloride	62		5.214				ND	
7 Butane	43		5.219				ND	7
8 Butadiene	54		5.326				ND	
9 Bromomethane	94		6.049				ND	
10 Chloroethane	64		6.316				ND	
13 Vinyl bromide	106		6.733				ND	
14 Trichlorofluoromethane	101		6.899				ND	
16 Ethanol	45		7.242				ND	
20 1,1-Dichloroethene	96		7.953				ND	MU
21 1,1,2-Trichloro-1,2,2-trifluoro	101		7.996				ND	
22 Acetone	43		8.007				ND	7
23 Isopropyl alcohol	45		8.290				ND	
24 Carbon disulfide	76		8.354				ND	
26 3-Chloro-1-propene	41		8.638				ND	
27 Methylene Chloride	49		8.863				ND	7
28 2-Methyl-2-propanol	59		9.050				ND	
30 trans-1,2-Dichloroethene	61		9.366				ND	
31 Methyl tert-butyl ether	73		9.366				ND	7
32 Hexane	57		9.890				ND	
33 1,1-Dichloroethane	63		10.120				ND	
34 Vinyl acetate	43		10.125				ND	
S 35 1,2-Dichloroethene, Total	61		10.200				ND	7
36 2-Butanone (MEK)	72		11.072				ND	
37 cis-1,2-Dichloroethene	96		11.110				ND	7
38 Ethyl acetate	88		11.163				ND	
* 39 Chlorobromomethane	128	11.511	11.516	-0.005	96	493615	10.0	
40 Tetrahydrofuran	42		11.559				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
41 Chloroform	83		11.693				ND	
42 1,1,1-Trichloroethane	97		12.008				ND	
43 Cyclohexane	84		12.158				ND	
44 Carbon tetrachloride	117		12.292				ND	
45 Benzene	78		12.629				ND	7
46 1,2-Dichloroethane	62		12.693				ND	
47 Isooctane	57		12.870				ND	
48 n-Heptane	43		13.169				ND	7
* 49 1,4-Difluorobenzene	114	13.357	13.356	0.001	97	2497054	10.0	
51 Trichloroethene	95		13.795				ND	
53 1,2-Dichloropropane	63		14.239				ND	
54 Methyl methacrylate	69		14.330				ND	
55 1,4-Dioxane	88		14.362				ND	
57 Dibromomethane	174	14.400	14.400	0.006	86	741	0.0151	M
58 Dichlorobromomethane	83		14.705				ND	
59 cis-1,3-Dichloropropene	75		15.507				ND	
61 4-Methyl-2-pentanone (MIBK)	43		15.759				ND	
62 Toluene	92		16.154				ND	7
66 trans-1,3-Dichloropropene	75		16.550				ND	
67 1,1,2-Trichloroethane	83		16.925				ND	
68 Tetrachloroethene	166		17.149				ND	
69 2-Hexanone	43		17.331				ND	
70 Chlorodibromomethane	129		17.663				ND	
71 Ethylene Dibromide	107		17.904				ND	
* 73 Chlorobenzene-d5	117	18.824	18.824	0.000	92	2100782	10.0	
74 Chlorobenzene	112		18.883				ND	
75 Ethylbenzene	91		19.081				ND	
76 m-Xylene & p-Xylene	106		19.338				ND	
S 80 Xylenes, Total	106		20.100				ND	7
78 o-Xylene	106		20.113				ND	
79 Styrene	104		20.145				ND	
81 Bromoform	173		20.477				ND	
82 Isopropylbenzene	105		20.803				ND	
83 1,1,2,2-Tetrachloroethane	83		21.301				ND	7
85 N-Propylbenzene	91		21.515				ND	
86 2-Chlorotoluene	91		21.665				ND	
87 4-Ethyltoluene	105		21.713				ND	7
88 1,3,5-Trimethylbenzene	105		21.809				ND	7
91 tert-Butylbenzene	119		22.291				ND	
92 1,2,4-Trimethylbenzene	105		22.376				ND	7
93 sec-Butylbenzene	105		22.612				ND	7
94 1,3-Dichlorobenzene	146		22.783				ND	7
95 4-Isopropyltoluene	119		22.826				ND	
96 1,4-Dichlorobenzene	146		22.922				ND	7
97 Benzyl chloride	91		23.061				ND	
98 n-Butylbenzene	91		23.382				ND	7
99 1,2-Dichlorobenzene	146		23.409				ND	7
102 1,2,4-Trichlorobenzene	180		25.848				ND	7
103 Hexachlorobutadiene	225		26.105				ND	
104 Naphthalene	128		26.319				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

ATTO15CISs_00012

Amount Added: 20.00

Units: mL

Run Reagent

1

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Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHAN.i\20250506-65018.b\65018_006.D

Injection Date: 06-May-2025 12:07:04

Instrument ID: CHAN.i

Operator ID: wrd

Lims ID: 200-77899-A-3

Lab Sample ID: 200-77899-3

Worklist Smp#: 6

Client ID: 6260

Purge Vol: 200.000 mL

Dil. Factor: 0.2000

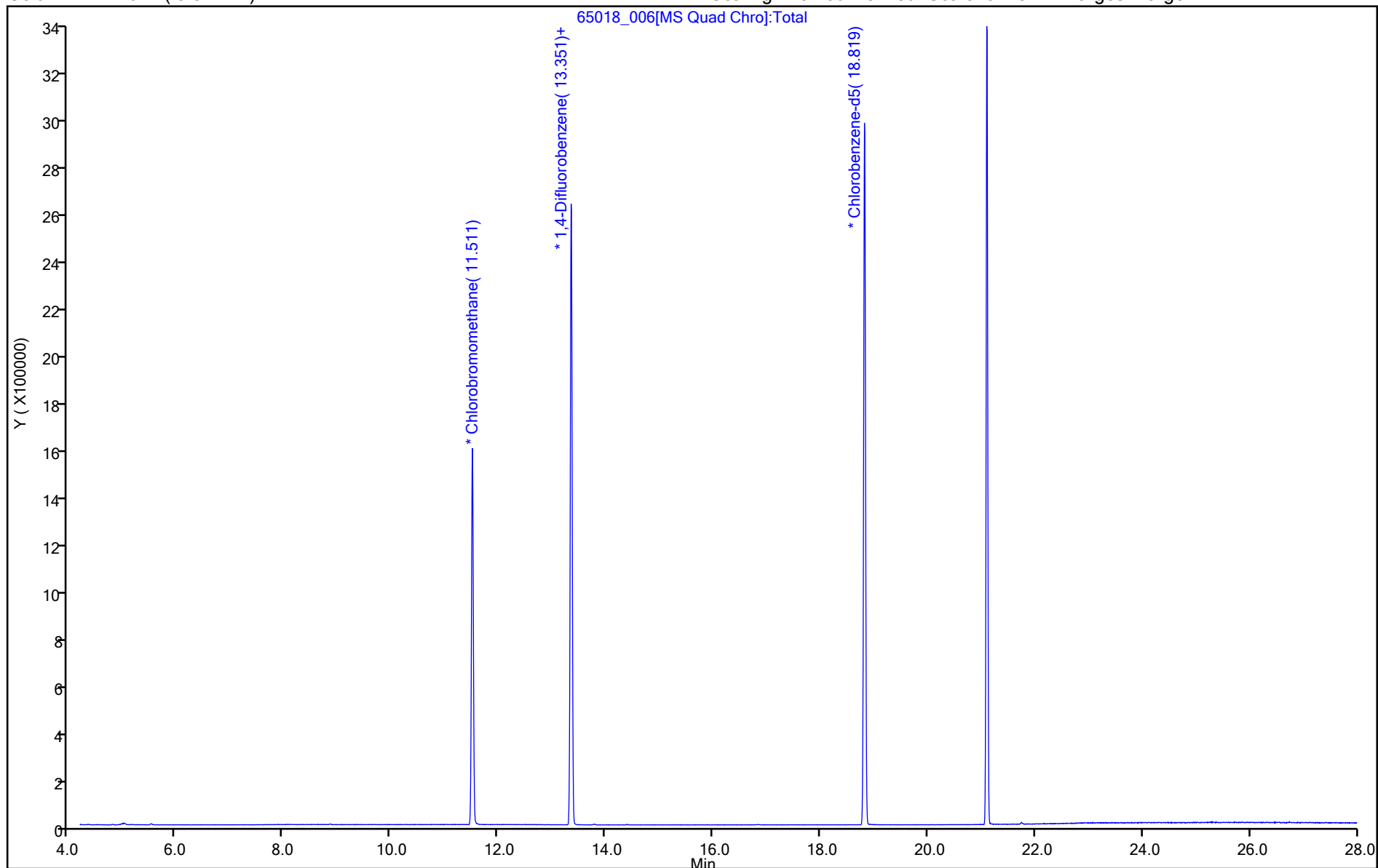
ALS Bottle#: 5

Method: TO15_TO3_Master_Method_AN

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

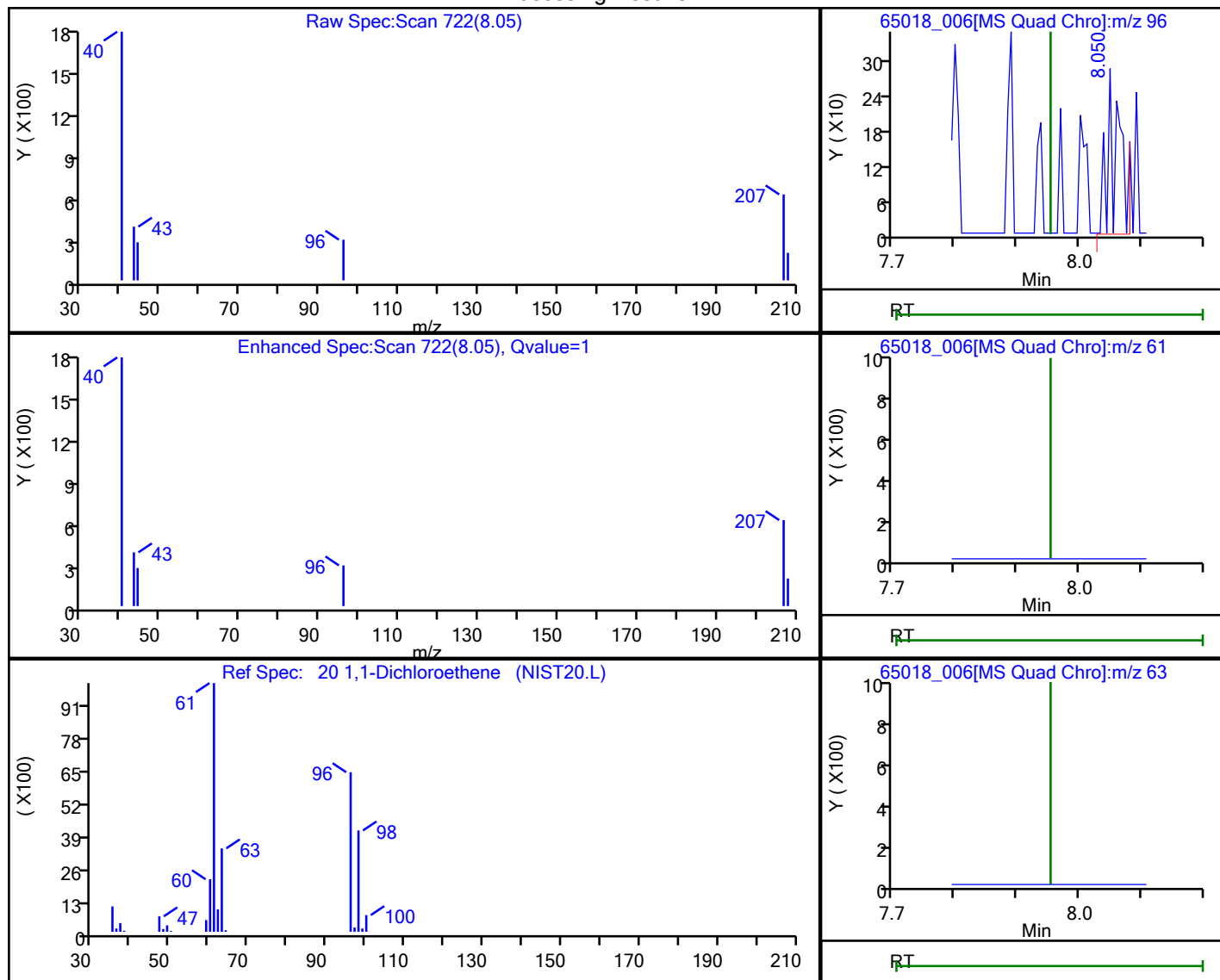


Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHAN.i\20250506-65018.b\65018_006.D
Injection Date: 06-May-2025 12:07:04 Instrument ID: CHAN.i
Lims ID: 200-77899-A-3 Lab Sample ID: 200-77899-3
Client ID: 6260
Operator ID: wrd ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Method: TO15_TO3_Master_Method_AN Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector: MS SCAN

20 1,1-Dichloroethene, CAS: 75-35-4

Processing Results



RT	Mass	Response	Amount
8.05	96.00	386	0.007535
7.95	61.00	0	
7.95	63.00	0	

Reviewer: F7XK, 07-May-2025 08:24:32 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-77900-1
 SDG No.: _____
 Client Sample ID: 5638 Lab Sample ID: 200-77900-3
 Matrix: Air Lab File ID: 65019-07.d
 Analysis Method: TO-15 Date Collected: 05/02/2025 00:00
 Sample wt/vol: 1000 (mL) Date Analyzed: 05/06/2025 12:52
 Soil Aliquot Vol: _____ Dilution Factor: 0.2
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 Purge Volume: _____ Heated Purge: (Y/N) _____ pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 215871 Units: ppb v/v
 Preparation Batch No.: _____ Instrument ID: CHW.i

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.028	U	0.028	0.028
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene (Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.028	U	0.028	0.028
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.10	U	0.10	0.10
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.028	U	0.028	0.028
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Burlington</u>	Job No.: <u>200-77900-1</u>
SDG No.: _____	
Client Sample ID: <u>5638</u>	Lab Sample ID: <u>200-77900-3</u>
Matrix: <u>Air</u>	Lab File ID: <u>65019-07.d</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>05/02/2025 00:00</u>
Sample wt/vol: <u>1000 (mL)</u>	Date Analyzed: <u>05/06/2025 12:52</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>0.2</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
Purge Volume: _____	Heated Purge: (Y/N) _____ pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>215871</u>	Units: <u>ppb v/v</u>
Preparation Batch No.: _____	Instrument ID: <u>CHW.i</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.028	U	0.028	0.028
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.028	U	0.028	0.028
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-77900-1
SDG No.: _____
Client Sample ID: 5638 Lab Sample ID: 200-77900-3
Matrix: Air Lab File ID: 65019-07.d
Analysis Method: TO-15 Date Collected: 05/02/2025 00:00
Sample wt/vol: 1000 (mL) Date Analyzed: 05/06/2025 12:52
Soil Aliquot Vol: _____ Dilution Factor: 0.2
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
Purge Volume: _____ Heated Purge: (Y/N) _____ pH: _____
% Moisture: _____ % Solids: _____ Level: (low/med) Low
Analysis Batch No.: 215871 Units: ppb v/v
Preparation Batch No.: _____ Instrument ID: CHW.i

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHW.i\20250506-65019.b\65019-07.d
 Lims ID: 200-77900-A-3
 Client ID: 5638
 Sample Type: Client
 Inject. Date: 06-May-2025 12:52:30 ALS Bottle#: 6 Worklist Smp#: 7
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Sample Info: 200-0065019-007
 Operator ID: vtp Instrument ID: CHW.i
 Method: \\chromfs\Burlington\ChromData\CHW.i\20250506-65019.b\TO15_TO3_MasterMethod_W.m
 Limit Group: AI_TO15_ICAL
 Last Update: 07-May-2025 09:59:24 Calib Date: 11-Apr-2025 02:50:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\CHW.i\20250410-64660.b\64660-15.d
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
 Process Host: CTX1659

First Level Reviewer: F7XK

Date: 07-May-2025 09:59:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		4.115				ND	7
2 Dichlorodifluoromethane	85		4.206				ND	
3 Chlorodifluoromethane	51		4.243				ND	7
4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		4.543				ND	
5 Chloromethane	50	4.655	4.655	0.000	1	1086	0.0335	
6 Vinyl chloride	62		4.955				ND	
7 Butane	43		4.960				ND	7
8 Butadiene	54		5.072				ND	
9 Bromomethane	94		5.811				ND	
10 Chloroethane	64		6.105				ND	
13 Vinyl bromide	106		6.576				ND	
14 Trichlorofluoromethane	101		6.758				ND	
16 Ethanol	45		7.164				ND	
20 1,1-Dichloroethene	96		7.988				ND	
21 1,1,2-Trichloro-1,2,2-trifluoro	101		8.036				ND	
22 Acetone	43		8.063				ND	7
23 Isopropyl alcohol	45		8.405				ND	
24 Carbon disulfide	76	8.491	8.485	0.011	94	2625	0.0222	
26 3-Chloro-1-propene	41		8.812				ND	7
27 Methylene Chloride	49		9.090				ND	7
28 2-Methyl-2-propanol	59		9.320				ND	
31 Methyl tert-butyl ether	73		9.695				ND	
30 trans-1,2-Dichloroethene	61		9.700				ND	
S 35 1,2-Dichloroethene, Total	61		10.200				ND	7
32 Hexane	57		10.299				ND	
33 1,1-Dichloroethane	63		10.593				ND	
34 Vinyl acetate	43		10.599				ND	
36 2-Butanone (MEK)	72		11.679				ND	
37 cis-1,2-Dichloroethene	96		11.727				ND	
38 Ethyl acetate	88		11.781				ND	
* 39 Chlorobromomethane	128	12.188	12.188	0.000	85	258305	10.0	
40 Tetrahydrofuran	42		12.236				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
41 Chloroform	83		12.380				ND	
42 1,1,1-Trichloroethane	97		12.728				ND	
43 Cyclohexane	84		12.888				ND	
44 Carbon tetrachloride	117		13.038				ND	
45 Benzene	78		13.407				ND	MU
46 1,2-Dichloroethane	62		13.482				ND	
47 Isooctane	57		13.643				ND	
48 n-Heptane	43		13.969				ND	7
* 49 1,4-Difluorobenzene	114	14.194	14.194	0.000	94	1314124	10.0	
51 Trichloroethene	95	14.675	14.675	0.011	93	2033	0.0360	M
53 1,2-Dichloropropane	63		15.141				ND	
54 Methyl methacrylate	69		15.215				ND	
55 1,4-Dioxane	88		15.269				ND	
57 Dibromomethane	174		15.312				ND	MU
58 Dichlorobromomethane	83		15.627				ND	
59 cis-1,3-Dichloropropene	75		16.467				ND	
61 4-Methyl-2-pentanone (MIBK)	43		16.713				ND	
62 Toluene	92		17.141				ND	
66 trans-1,3-Dichloropropene	75		17.553				ND	
67 1,1,2-Trichloroethane	83		17.944				ND	
68 Tetrachloroethene	166	18.174	18.174	0.000	83	809	0.008980	7M
69 2-Hexanone	43		18.340				ND	
70 Chlorodibromomethane	129		18.714				ND	
71 Ethylene Dibromide	107		18.976				ND	
* 73 Chlorobenzene-d5	117	19.907	19.902	0.005	85	1186066	10.0	
74 Chlorobenzene	112		19.961				ND	
S 80 Xylenes, Total	106		20.100				ND	7
75 Ethylbenzene	91		20.148				ND	MU
76 m-Xylene & p-Xylene	106		20.399				ND	
78 o-Xylene	106		21.111				ND	
79 Styrene	104		21.138				ND	
81 Bromoform	173		21.459				ND	
82 Isopropylbenzene	105		21.726				ND	
83 1,1,2,2-Tetrachloroethane	83		22.186				ND	7
85 N-Propylbenzene	91		22.384				ND	
86 2-Chlorotoluene	91		22.534				ND	
87 4-Ethyltoluene	105		22.566				ND	
88 1,3,5-Trimethylbenzene	105		22.652				ND	
91 tert-Butylbenzene	119		23.112				ND	
92 1,2,4-Trimethylbenzene	105		23.192				ND	
93 sec-Butylbenzene	105		23.433				ND	
94 1,3-Dichlorobenzene	146		23.625				ND	7
95 4-Isopropyltoluene	119		23.647				ND	
96 1,4-Dichlorobenzene	146		23.775				ND	7
97 Benzyl chloride	91		23.919				ND	
98 n-Butylbenzene	91		24.246				ND	
99 1,2-Dichlorobenzene	146		24.305				ND	7
102 1,2,4-Trichlorobenzene	180		27.022				ND	
103 Hexachlorobutadiene	225		27.290				ND	
104 Naphthalene	128		27.573				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

ATTO15WISs_00010

Amount Added: 20.00

Units: mL

Run Reagent

1

2

3

4

5

6

7

8

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10

11

12

13

14

15

16

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHW.i\20250506-65019.b\65019-07.d

Injection Date: 06-May-2025 12:52:30

Instrument ID: CHW.i

Operator ID: vtp

Lims ID: 200-77900-A-3

Lab Sample ID: 200-77900-3

Worklist Smp#: 7

Client ID: 5638

Purge Vol: 200.000 mL

Dil. Factor: 0.2000

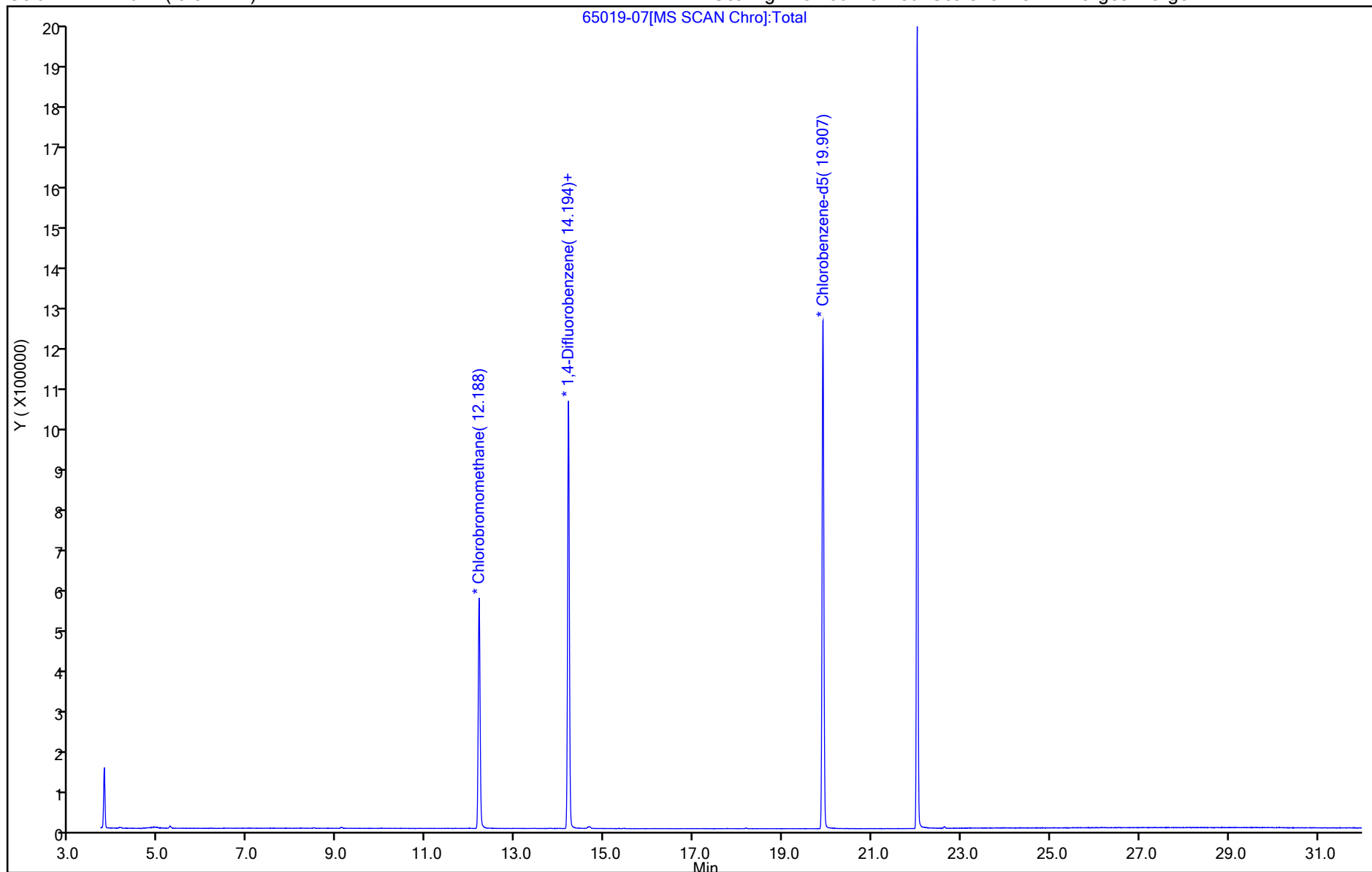
ALS Bottle#: 6

Method: TO15_TO3_MasterMethod_W

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

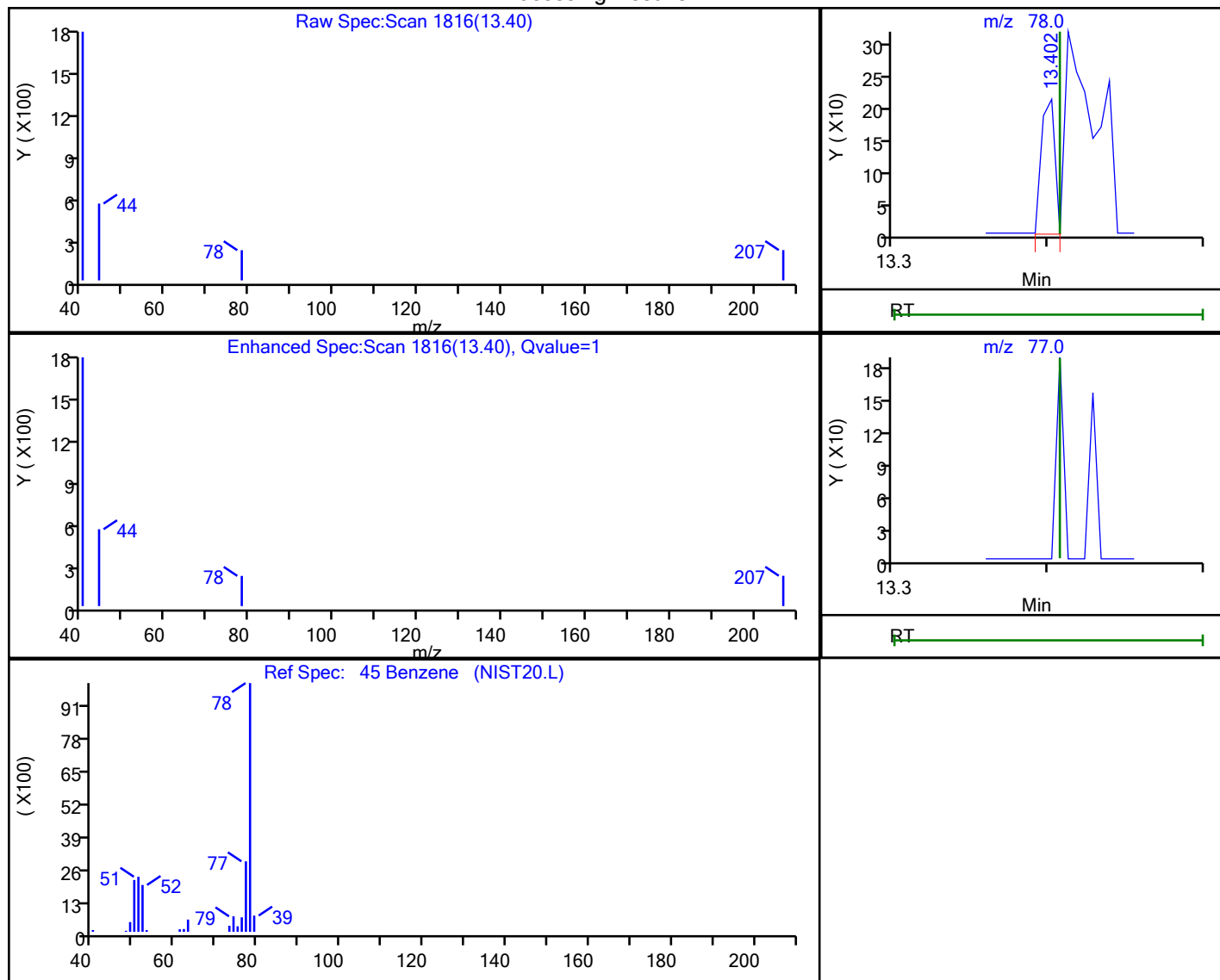


Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHW.i\20250506-65019.b\65019-07.d
Injection Date: 06-May-2025 12:52:30 Instrument ID: CHW.i
Lims ID: 200-77900-A-3 Lab Sample ID: 200-77900-3
Client ID: 5638
Operator ID: vtp ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Method: TO15_TO3_MasterMethod_W Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector: MS SCAN

45 Benzene, CAS: 71-43-2

Processing Results



RT	Mass	Response	Amount
13.40	78.00	128	0.000996
13.41	77.00	0	

Reviewer: F7XK, 07-May-2025 09:55:57 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Burlington

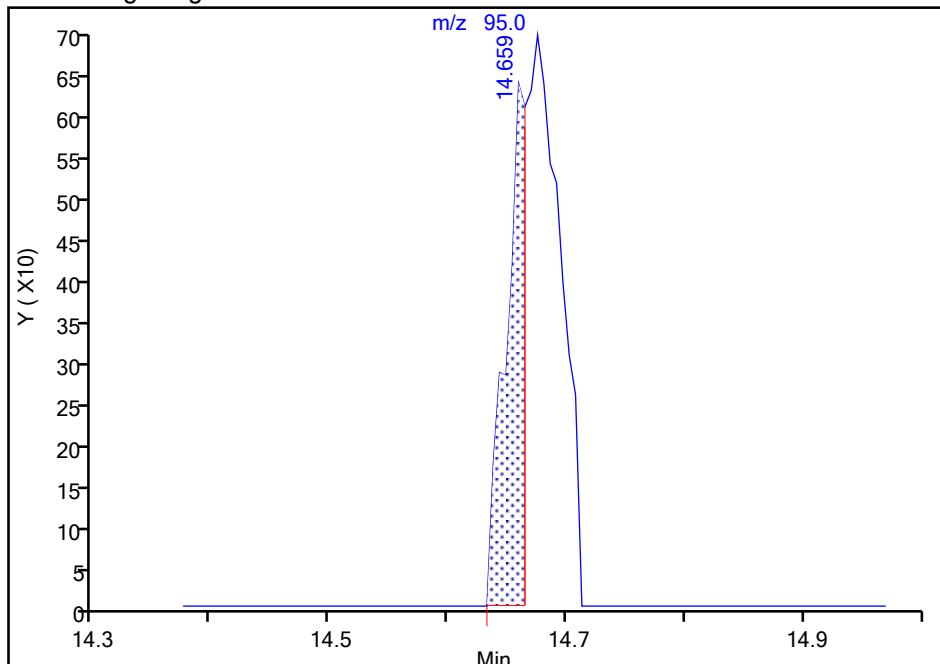
Data File:	\\chromfs\Burlington\ChromData\CHW.i\20250506-65019.b\65019-07.d		
Injection Date:	06-May-2025 12:52:30	Instrument ID:	CHW.i
Lims ID:	200-77900-A-3	Lab Sample ID:	200-77900-3
Client ID:	5638		
Operator ID:	vtp	ALS Bottle#:	6
Purge Vol:	200.000 mL	Dil. Factor:	0.2000
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL
Column:	RTX-624 (0.32 mm)	Detector:	MS SCAN
		Worklist Smp#:	7

51 Trichloroethene, CAS: 79-01-6

Signal: 1

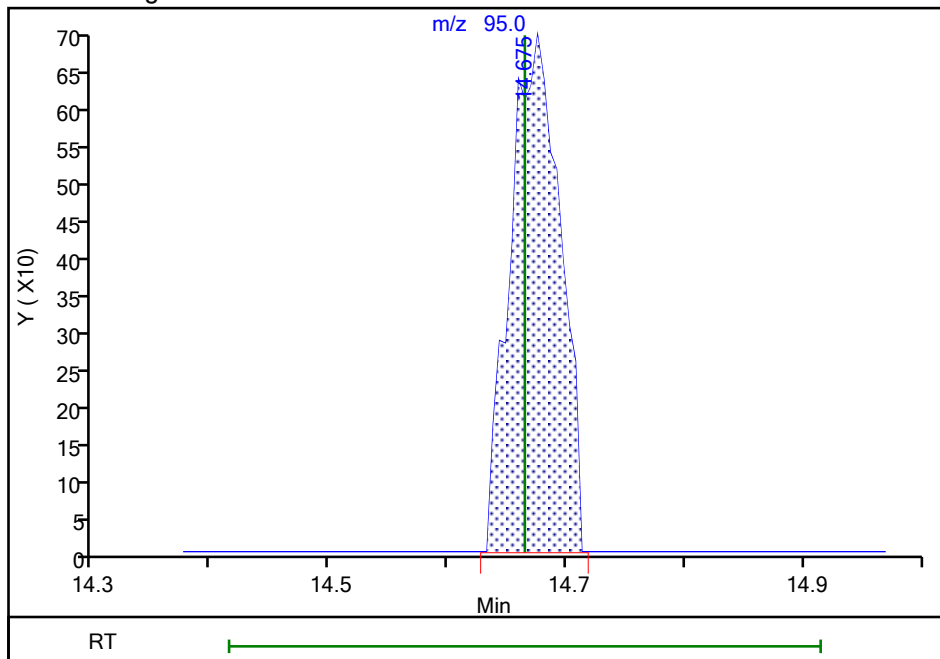
RT: 14.66
Area: 765
Amount: 0.013553
Amount Units: ppb v/v

Processing Integration Results



RT: 14.68
Area: 2033
Amount: 0.036016
Amount Units: ppb v/v

Manual Integration Results



Reviewer: F7XK, 07-May-2025 09:57:21 07:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins Burlington

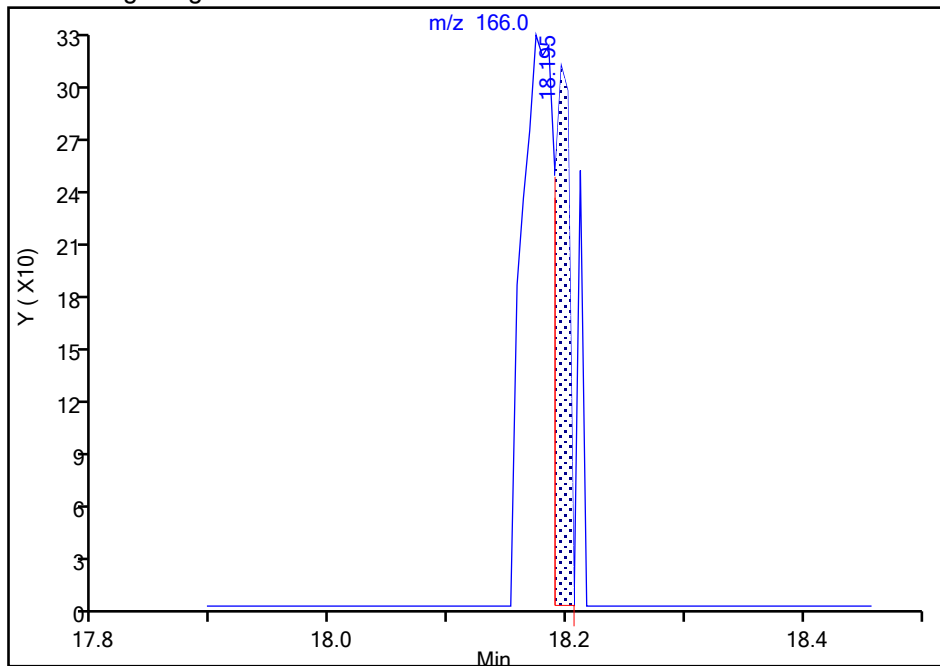
Data File:	\\chromfs\Burlington\ChromData\CHW.i\20250506-65019.b\65019-07.d				
Injection Date:	06-May-2025 12:52:30	Instrument ID:	CHW.i		
Lims ID:	200-77900-A-3	Lab Sample ID:	200-77900-3		
Client ID:	5638				
Operator ID:	vtp	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	200.000 mL	Dil. Factor:	0.2000		
Method:	TO15_TO3_MasterMethod_W	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector:	MS SCAN		

68 Tetrachloroethene, CAS: 127-18-4

Signal: 1

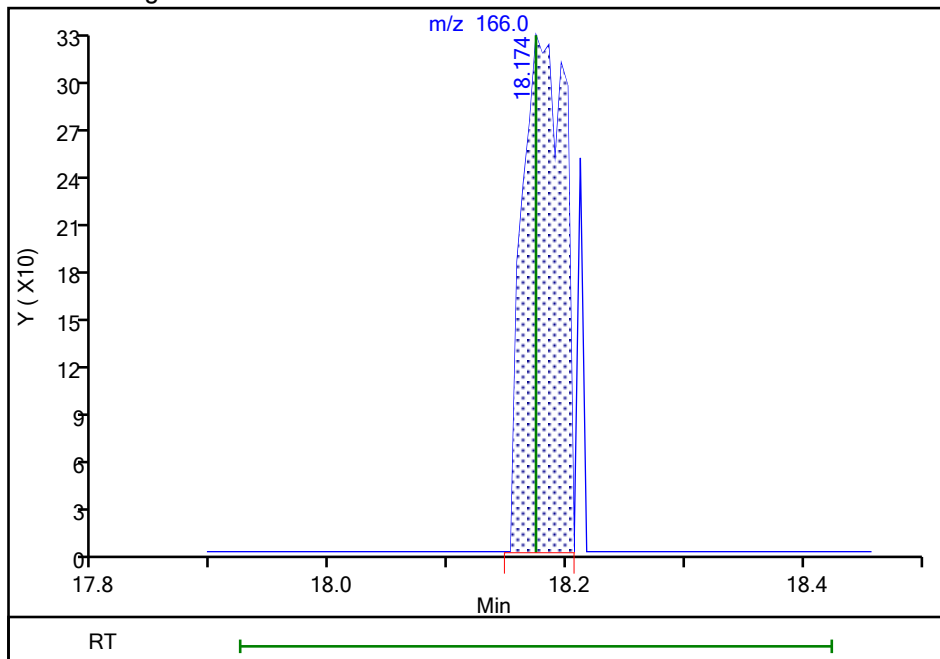
RT: 18.20
Area: 275
Amount: 0.003052
Amount Units: ppb v/v

Processing Integration Results



RT: 18.17
Area: 809
Amount: 0.008980
Amount Units: ppb v/v

Manual Integration Results



Reviewer: F7XK, 07-May-2025 09:58:07 07:00:00 (UTC)

Audit Action: Manually Integrated

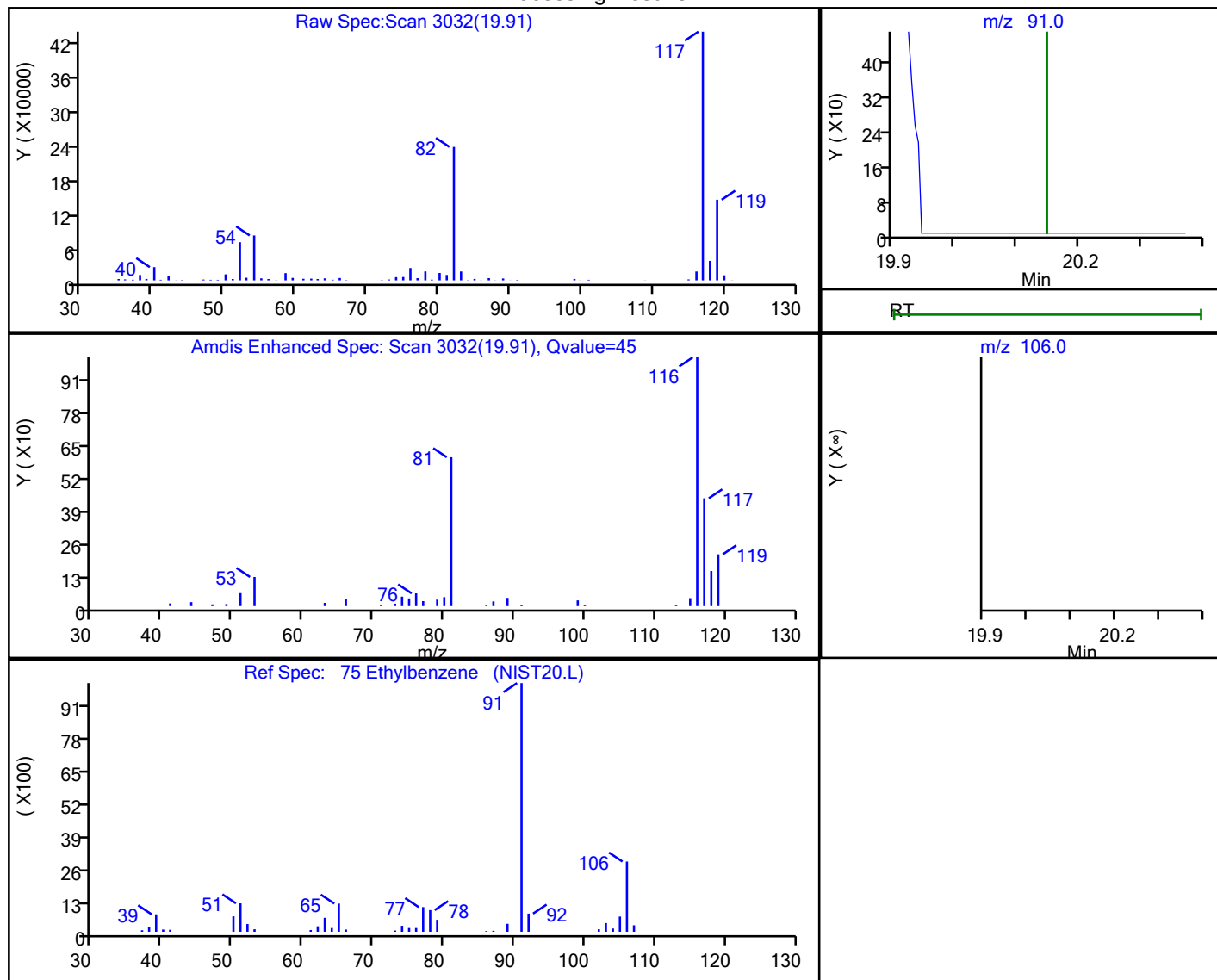
Audit Reason: Assign Peak

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHW.i\20250506-65019.b\65019-07.d
Injection Date: 06-May-2025 12:52:30 Instrument ID: CHW.i
Lims ID: 200-77900-A-3 Lab Sample ID: 200-77900-3
Client ID: 5638
Operator ID: vtp ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Method: TO15_TO3_MasterMethod_W Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector: MS SCAN

75 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
19.91	91.00	2295	0.010436
20.15	106.00	0	

Reviewer: F7XK, 07-May-2025 09:58:27 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Summa Canister Dilution Worksheet

Client: Brydges Engineering in Environment & Ene
Project/Site: 166 E 4th Street, Dunkirk, NY

Job No.: 200-78231-1

Lab Sample ID	Canister Volume (L)	Preadjusted Pressure ("Hg)	Preadjusted Pressure (atm)	Preadjusted Volume (L)	Adjusted Pressure (psig)	Adjusted Pressure (atm)	Adjusted Volume (L)	Initial Volume (mL)	Dilution Factor	Final Dilution Factor	Pressure Gauge ID	Date	Analyst Initials
200-78231-1	6	-16.9	0.44	2.61	-1.52258	0.90	5.38		2.06	2.06	g43	06/04/25 9:54	VTP
200-78231-1	6	-5.1	0.83	4.98	41.1	3.80	22.78		4.58	9.43	G43	06/06/25 11:27	TPB
200-78231-3	6	-25.1	0.16	0.97	-2.75046	0.81	4.88		5.05	5.05	g43	06/04/25 10:12	VTP
200-78231-5	6	-3.5	0.88	5.30	40.3	3.74	22.45		4.24	4.24	G43	06/06/25 11:28	TPB
200-78231-6	6	-21.2	0.29	1.75	-3.09427	0.79	4.74		2.71	2.71	g43	06/04/25 10:17	VTP

Formulae:

Preadjusted Volume (L) = ((Preadjusted Pressure ("Hg) + 29.92 "Hg) * Vol L) / 29.92 "Hg

Adjusted Volume (L) = ((Adjusted Pressure (psig) + 14.7 psig) * Vol L) / 14.7 psig

Dilution Factor = Adjusted Volume (L) / Preadjusted Volume (L)

Where:

29.92 "Hg = Standard atmospheric pressure in inches of Mercury ("Hg)

14.7 psig = Standard atmospheric pressure in pounds per square inch gauge (psig)