

<u>Contact Water Lab Reports Summary Sheet</u>	
Date Analytical Report Received	Lab Report Number
11/10/2022	180-146944-1
8/29/2023	180-161087-1



Environment Testing

ANALYTICAL REPORT

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-146944-1

Client Project/Site: Former Sperry Remington-Frac Tank

For:

Geosyntec Consultants, Inc.
10211 Wincopin Circle
4th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:

11/10/2022 5:23:29 PM

David Dunlap, Senior Project Manager
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Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416

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 {0} Project Manager.

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Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington-Frac Tank

Job ID: 180-146944-1

Job ID: 180-146944-1

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-146944-1

Receipt

The samples were received on 10/27/2022 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 2.1° C, 2.3° C, 2.7° C and 2.8° C.

GC/MS VOA

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

GC/MS Semi VOA

Method 8270E: The recovery of surrogate 2,4,6-Tribromophenol for the following sample was above the control limits: SSHS-IRM5A2-FRACK TANK 1 (180-146944-1). As the surrogate was high and there were no target analytes detected in the sample, the results were reported.

Method 8270E: The continuing calibration verification (CCV) analyzed in batch 460-875395 was above criteria for the following analytes: Hexachlorobenzene and Pentachlorophenol. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

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

GC Semi VOA

Method 8081B: Sample SSHS-IRM5A2-FRACK TANK 1 (180-146944-1) had the recoveries of surrogates decachlorobiphenyl and tetrachloro-m-xylene above the control limits on column CLP2. The recoveries on columns RTX-CLP were within the control limits. As the surrogates were high and there were no target analytes detected in the sample, the results were reported.

Method 8081B: The method blank (MB 460-875434/1-A) had the recovery of surrogate decachlorobiphenyl above the control limits on column CLP2. The recovery on column RTX-CLP and the recoveries of tetrachloro-m-xylene were within the control limits.

Method 8081B: The continuing calibration verification (CCV) analyzed in batch 460-875539 (CCVIS 460-875539/3) was above criteria for surrogate decachlorobiphenyl on column CLP2. The associated sample results were reported from column RTX-CLP which met criteria.

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

Metals

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.

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington-Frac Tank

Job ID: 180-146944-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

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.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington-Frac Tank

Job ID: 180-146944-1

Laboratory: Eurofins Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11182	04-01-23

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
EPA 1010A		Water	Flashpoint
EPA 9040C		Water	pH

Laboratory: Eurofins Canton

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10975	04-01-23

Laboratory: Eurofins Edison

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-23

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington-Frac Tank

Job ID: 180-146944-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-146944-1	SSHS-IRM5A2-FRACK TANK 1	Water	10/26/22 14:20	10/27/22 10:30

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington-Frac Tank

Job ID: 180-146944-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET EDI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET EDI
8081B	Organochlorine Pesticides (GC)	SW846	EET EDI
8151A	Herbicides (GC)	SW846	EET EDI
EPA 8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET PIT
6010D	Metals (ICP)	SW846	EET EDI
7470A	Mercury (CVAA)	SW846	EET EDI
9012B	Cyanide, Total and/or Amenable	SW846	EET EDI
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	EET CAN
EPA 1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	EET PIT
EPA 9040C	pH	SW846	EET PIT
1311	TCLP Extraction	SW846	EET EDI
3010A	Preparation, Total Metals	SW846	EET EDI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET EDI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET PIT
5030C	Purge and Trap	SW846	EET EDI
7470A	Preparation, Mercury	SW846	EET EDI
8151A	Extraction (Herbicides)	SW846	EET EDI
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	EET EDI
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	EET CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington-Frac Tank

Job ID: 180-146944-1

Client Sample ID: SSHS-IRM5A2-FRACK TANK 1

Lab Sample ID: 180-146944-1

Date Collected: 10/26/22 14:20

Matrix: Water

Date Received: 10/27/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	100 mL	876291	11/06/22 10:13	BJB	EET EDI
TCLP	Analysis	8260D		10	5 mL	5 mL	876528	11/08/22 05:57	MZS	EET EDI
	Instrument ID: CVOAMS8									
TCLP	Leach	1311			1.0 g	1.0 mL	875228	10/31/22 12:06	YAH	EET EDI
TCLP	Prep	3510C			250 mL	2 mL	875351	11/01/22 06:41	DXD	EET EDI
TCLP	Analysis	8270E		1	1 mL	1 mL	875395	11/01/22 21:24	MME	EET EDI
	Instrument ID: CBNAMS14									
TCLP	Leach	1311			1.0 g	1.0 mL	875228	10/31/22 12:06	YAH	EET EDI
TCLP	Prep	3510C			250 mL	1 mL	875434	11/01/22 11:50	NMP	EET EDI
TCLP	Analysis	8081B		1	1 mL	1 mL	875539	11/02/22 05:14	FAM	EET EDI
	Instrument ID: CPESTGC4									
TCLP	Leach	1311			1.0 g	1.0 mL	875228	10/31/22 12:06	YAH	EET EDI
TCLP	Prep	8151A			15 mL	5 mL	875354	11/01/22 07:14	DXD	EET EDI
TCLP	Analysis	8151A		1	1 mL	1 mL	875396	11/02/22 08:57	SAK	EET EDI
	Instrument ID: CPESTGC15									
Total/NA	Prep	3510C			250 mL	10.0 mL	416529	10/28/22 04:30	CBY	EET PIT
Total/NA	Analysis	EPA 8082A		1	1 uL	1 uL	416820	11/01/22 20:07	JMO	EET PIT
	Instrument ID: CHGC16									
TCLP	Leach	1311			1.0 g	1.0 mL	875228	10/31/22 12:06	YAH	EET EDI
TCLP	Prep	3010A			50 mL	50 mL	875442	11/01/22 12:33	NNW	EET EDI
TCLP	Analysis	6010D		5			875437	11/01/22 15:47	CDC	EET EDI
	Instrument ID: ICP5									
TCLP	Leach	1311			1.0 g	1.0 mL	875228	10/31/22 12:06	YAH	EET EDI
TCLP	Prep	7470A			30 mL	30 mL	876910	11/09/22 11:28	RBS	EET EDI
TCLP	Analysis	7470A		1			876955	11/09/22 14:32	RBS	EET EDI
	Instrument ID: LEEMAN6									
Total/NA	Prep	9012B			6.0 mL	6.0 mL	876331	11/06/22 15:24	VBG	EET EDI
Total/NA	Analysis	9012B		1			876350	11/06/22 19:15	VBG	EET EDI
	Instrument ID: Lachat3									
Total/NA	Prep	9030B			50 mL	50 mL	549551	10/31/22 10:11	KMS	EET CAN
Total/NA	Analysis	9034		1			549564	10/31/22 10:55	KMS	EET CAN
	Instrument ID: 40311									
Total/NA	Analysis	EPA 1010A		1	70 mL	70 mL	417208	11/03/22 10:22	BAC	EET PIT
	Instrument ID: SPARKY									
Total/NA	Analysis	EPA 9040C		1			417133	11/02/22 21:38	MAM	EET PIT
	Instrument ID: PHTITRATOR									

* Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Eurofins Pittsburgh

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington-Frac Tank

Job ID: 180-146944-1

Analyst References:

Lab: EET CAN

Batch Type: Prep

KMS = Kayla Shellenbarger

Batch Type: Analysis

KMS = Kayla Shellenbarger

Lab: EET EDI

Batch Type: Leach

BJB = Benjamin Baker

YAH = Youhao Hu

Batch Type: Prep

DXD = Djedjiga Dekkar

NMP = Nehaben Patel

NNW = Nidir Wilson

RBS = Razia Sheikh

VBG = Vipul Govekar

Batch Type: Analysis

CDC = Churn Der Chang

FAM = Ferdie Manlangit

MME = Mustafa Eisa

MZS = Margaret Starzec

RBS = Razia Sheikh

SAK = Sita Kapoor

VBG = Vipul Govekar

Lab: EET PIT

Batch Type: Prep

CBY = Charles Yushinski

Batch Type: Analysis

BAC = Blase Cindric

JMO = John Oravec

MAM = Matthew Martin

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington-Frac Tank

Job ID: 180-146944-1

Client Sample ID: SSHS-IRM5A2-FRACK TANK 1

Lab Sample ID: 180-146944-1

Date Collected: 10/26/22 14:20

Matrix: Water

Date Received: 10/27/22 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.010	0.0020	mg/L			11/08/22 05:57	10
2-Butanone (MEK)	ND		0.050	0.019	mg/L			11/08/22 05:57	10
Carbon tetrachloride	ND		0.010	0.0021	mg/L			11/08/22 05:57	10
Chlorobenzene	ND		0.010	0.0038	mg/L			11/08/22 05:57	10
Chloroform	ND		0.010	0.0033	mg/L			11/08/22 05:57	10
1,2-Dichloroethane	ND		0.010	0.0043	mg/L			11/08/22 05:57	10
1,1-Dichloroethene	ND		0.010	0.0026	mg/L			11/08/22 05:57	10
Tetrachloroethene	ND		0.010	0.0025	mg/L			11/08/22 05:57	10
Trichloroethene	ND		0.010	0.0031	mg/L			11/08/22 05:57	10
Vinyl chloride	ND		0.010	0.0017	mg/L			11/08/22 05:57	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		76 - 120		11/08/22 05:57	10
Dibromofluoromethane (Surr)	121		77 - 124		11/08/22 05:57	10
1,2-Dichloroethane-d4 (Surr)	110		70 - 128		11/08/22 05:57	10
Toluene-d8 (Surr)	87		80 - 120		11/08/22 05:57	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00044	mg/L		11/01/22 06:41	11/01/22 21:24	1
2,4-Dinitrotoluene	ND		0.010	0.0010	mg/L		11/01/22 06:41	11/01/22 21:24	1
Hexachlorobenzene	ND		0.0010	0.00040	mg/L		11/01/22 06:41	11/01/22 21:24	1
Hexachlorobutadiene	ND		0.0010	0.00078	mg/L		11/01/22 06:41	11/01/22 21:24	1
Hexachloroethane	ND		0.0020	0.00080	mg/L		11/01/22 06:41	11/01/22 21:24	1
2-Methylphenol	ND		0.010	0.00067	mg/L		11/01/22 06:41	11/01/22 21:24	1
Methylphenol, 3 & 4	ND		0.010	0.00065	mg/L		11/01/22 06:41	11/01/22 21:24	1
Nitrobenzene	ND		0.0010	0.00057	mg/L		11/01/22 06:41	11/01/22 21:24	1
Pentachlorophenol	ND		0.020	0.0014	mg/L		11/01/22 06:41	11/01/22 21:24	1
Pyridine	ND		0.010	0.0019	mg/L		11/01/22 06:41	11/01/22 21:24	1
2,4,5-Trichlorophenol	ND		0.010	0.00088	mg/L		11/01/22 06:41	11/01/22 21:24	1
2,4,6-Trichlorophenol	ND		0.010	0.00086	mg/L		11/01/22 06:41	11/01/22 21:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	109		46 - 139	11/01/22 06:41	11/01/22 21:24	1
2-Fluorophenol (Surr)	68		19 - 80	11/01/22 06:41	11/01/22 21:24	1
Nitrobenzene-d5 (Surr)	113		52 - 137	11/01/22 06:41	11/01/22 21:24	1
Phenol-d5 (Surr)	43		10 - 56	11/01/22 06:41	11/01/22 21:24	1
Terphenyl-d14 (Surr)	117		22 - 150	11/01/22 06:41	11/01/22 21:24	1
2,4,6-Tribromophenol (Surr)	159	S1+	37 - 150	11/01/22 06:41	11/01/22 21:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0050	0.000055	mg/L		11/01/22 11:50	11/02/22 05:14	1
Endrin	ND		0.00050	0.0000040	mg/L		11/01/22 11:50	11/02/22 05:14	1
gamma-BHC (Lindane)	ND		0.00050	0.000012	mg/L		11/01/22 11:50	11/02/22 05:14	1
Heptachlor	ND		0.00050	0.0000030	mg/L		11/01/22 11:50	11/02/22 05:14	1
Heptachlor epoxide	ND		0.00050	0.0000050	mg/L		11/01/22 11:50	11/02/22 05:14	1
Methoxychlor	ND		0.00050	0.0000040	mg/L		11/01/22 11:50	11/02/22 05:14	1
Toxaphene	ND		0.0050	0.00011	mg/L		11/01/22 11:50	11/02/22 05:14	1

Eurofins Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington-Frac Tank

Job ID: 180-146944-1

Client Sample ID: SSHS-IRM5A2-FRACK TANK 1

Lab Sample ID: 180-146944-1

Date Collected: 10/26/22 14:20

Matrix: Water

Date Received: 10/27/22 10:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	155	S1+	15 - 121	11/01/22 11:50	11/02/22 05:14	1
DCB Decachlorobiphenyl	104		15 - 121	11/01/22 11:50	11/02/22 05:14	1
Tetrachloro-m-xylene	121	S1+	17 - 120	11/01/22 11:50	11/02/22 05:14	1
Tetrachloro-m-xylene	100		17 - 120	11/01/22 11:50	11/02/22 05:14	1

Method: SW846 8151A - Herbicides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.083	0.0050	mg/L		11/01/22 07:14	11/02/22 08:57	1
Silvex (2,4,5-TP)	ND		0.083	0.0040	mg/L		11/01/22 07:14	11/02/22 08:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	57		10 - 150	11/01/22 07:14	11/02/22 08:57	1
2,4-Dichlorophenylacetic acid	57		10 - 150	11/01/22 07:14	11/02/22 08:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.40	0.19	ug/L		10/28/22 04:30	11/01/22 20:07	1
PCB-1221	ND		0.40	0.23	ug/L		10/28/22 04:30	11/01/22 20:07	1
PCB-1232	ND		0.40	0.21	ug/L		10/28/22 04:30	11/01/22 20:07	1
PCB-1242	ND		0.40	0.14	ug/L		10/28/22 04:30	11/01/22 20:07	1
PCB-1248	3.5		0.40	0.32	ug/L		10/28/22 04:30	11/01/22 20:07	1
PCB-1254	1.2		0.40	0.18	ug/L		10/28/22 04:30	11/01/22 20:07	1
PCB-1260	ND		0.40	0.16	ug/L		10/28/22 04:30	11/01/22 20:07	1
PCB-1262	ND		0.40	0.28	ug/L		10/28/22 04:30	11/01/22 20:07	1
PCB-1268	ND		0.40	0.18	ug/L		10/28/22 04:30	11/01/22 20:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	77		68 - 142	10/28/22 04:30	11/01/22 20:07	1
DCB Decachlorobiphenyl (Surr)	89		68 - 142	10/28/22 04:30	11/01/22 20:07	1
Tetrachloro-m-xylene (Surr)	76		57 - 121	10/28/22 04:30	11/01/22 20:07	1
Tetrachloro-m-xylene (Surr)	73		57 - 121	10/28/22 04:30	11/01/22 20:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.075	0.025	mg/L		11/01/22 12:33	11/01/22 15:47	5
Barium	0.29	J	1.0	0.14	mg/L		11/01/22 12:33	11/01/22 15:47	5
Cadmium	ND		0.020	0.0018	mg/L		11/01/22 12:33	11/01/22 15:47	5
Chromium	ND		0.050	0.025	mg/L		11/01/22 12:33	11/01/22 15:47	5
Lead	ND		0.050	0.013	mg/L		11/01/22 12:33	11/01/22 15:47	5
Selenium	ND		0.10	0.035	mg/L		11/01/22 12:33	11/01/22 15:47	5
Silver	ND		0.050	0.016	mg/L		11/01/22 12:33	11/01/22 15:47	5

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000091	mg/L		11/09/22 11:28	11/09/22 14:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.12		0.010	0.0040	mg/L		11/06/22 15:24	11/06/22 19:15	1
Sulfide (SW846 9034)	ND		3.0	1.4	mg/L		10/31/22 10:11	10/31/22 10:55	1
Flashpoint (SW846 EPA 1010A)	>200		1.00	1.00	Degrees F			11/03/22 10:22	1
pH (SW846 EPA 9040C)	8.1		0.1	0.1	SU			11/02/22 21:38	1

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QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington-Frac Tank

Job ID: 180-146944-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 460-876380/9

Matrix: Water

Analysis Batch: 876380

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010	0.00020	mg/L			11/07/22 10:44	1
2-Butanone (MEK)	ND		0.0050	0.0019	mg/L			11/07/22 10:44	1
Carbon tetrachloride	ND		0.0010	0.00021	mg/L			11/07/22 10:44	1
Chlorobenzene	ND		0.0010	0.00038	mg/L			11/07/22 10:44	1
Chloroform	ND		0.0010	0.00033	mg/L			11/07/22 10:44	1
1,2-Dichloroethane	ND		0.0010	0.00043	mg/L			11/07/22 10:44	1
1,1-Dichloroethene	ND		0.0010	0.00026	mg/L			11/07/22 10:44	1
Tetrachloroethene	ND		0.0010	0.00025	mg/L			11/07/22 10:44	1
Trichloroethene	ND		0.0010	0.00031	mg/L			11/07/22 10:44	1
Vinyl chloride	ND		0.0010	0.00017	mg/L			11/07/22 10:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		76 - 120		11/07/22 10:44	1
Dibromofluoromethane (Surr)	91		77 - 124		11/07/22 10:44	1
1,2-Dichloroethane-d4 (Surr)	85		70 - 128		11/07/22 10:44	1
Toluene-d8 (Surr)	92		80 - 120		11/07/22 10:44	1

Lab Sample ID: LCS 460-876380/3

Matrix: Water

Analysis Batch: 876380

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0200	0.0200		mg/L		100	71 - 126
2-Butanone (MEK)	0.100	0.115		mg/L		115	61 - 128
Carbon tetrachloride	0.0200	0.0189		mg/L		95	61 - 131
Chlorobenzene	0.0200	0.0204		mg/L		102	80 - 120
Chloroform	0.0200	0.0195		mg/L		97	78 - 125
1,2-Dichloroethane	0.0200	0.0192		mg/L		96	66 - 129
1,1-Dichloroethene	0.0200	0.0193		mg/L		97	68 - 133
Tetrachloroethene	0.0200	0.0180		mg/L		90	70 - 127
Trichloroethene	0.0200	0.0187		mg/L		93	71 - 121
Vinyl chloride	0.0200	0.0176		mg/L		88	55 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	98		76 - 120
Dibromofluoromethane (Surr)	89		77 - 124
1,2-Dichloroethane-d4 (Surr)	86		70 - 128
Toluene-d8 (Surr)	95		80 - 120

Lab Sample ID: LCSD 460-876380/4

Matrix: Water

Analysis Batch: 876380

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0200	0.0197		mg/L		99	71 - 126	1	30
2-Butanone (MEK)	0.100	0.118		mg/L		118	61 - 128	3	30
Carbon tetrachloride	0.0200	0.0196		mg/L		98	61 - 131	4	30
Chlorobenzene	0.0200	0.0208		mg/L		104	80 - 120	2	30

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QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington-Frac Tank

Job ID: 180-146944-1

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

Lab Sample ID: LCSD 460-876380/4

Matrix: Water

Analysis Batch: 876380

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloroform	0.0200	0.0199		mg/L		99	78 - 125	2	30
1,2-Dichloroethane	0.0200	0.0187		mg/L		93	66 - 129	3	30
1,1-Dichloroethene	0.0200	0.0197		mg/L		99	68 - 133	2	30
Tetrachloroethene	0.0200	0.0179		mg/L		90	70 - 127	0	30
Trichloroethene	0.0200	0.0194		mg/L		97	71 - 121	4	30
Vinyl chloride	0.0200	0.0184		mg/L		92	55 - 144	5	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	84		76 - 120
Dibromofluoromethane (Surr)	82		77 - 124
1,2-Dichloroethane-d4 (Surr)	74		70 - 128
Toluene-d8 (Surr)	82		80 - 120

Lab Sample ID: MB 460-876528/8

Matrix: Water

Analysis Batch: 876528

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010	0.00020	mg/L			11/07/22 21:38	1
2-Butanone (MEK)	ND		0.0050	0.0019	mg/L			11/07/22 21:38	1
Carbon tetrachloride	ND		0.0010	0.00021	mg/L			11/07/22 21:38	1
Chlorobenzene	ND		0.0010	0.00038	mg/L			11/07/22 21:38	1
Chloroform	ND		0.0010	0.00033	mg/L			11/07/22 21:38	1
1,2-Dichloroethane	ND		0.0010	0.00043	mg/L			11/07/22 21:38	1
1,1-Dichloroethene	ND		0.0010	0.00026	mg/L			11/07/22 21:38	1
Tetrachloroethene	ND		0.0010	0.00025	mg/L			11/07/22 21:38	1
Trichloroethene	ND		0.0010	0.00031	mg/L			11/07/22 21:38	1
Vinyl chloride	ND		0.0010	0.00017	mg/L			11/07/22 21:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		76 - 120		11/07/22 21:38	1
Dibromofluoromethane (Surr)	108		77 - 124		11/07/22 21:38	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 128		11/07/22 21:38	1
Toluene-d8 (Surr)	99		80 - 120		11/07/22 21:38	1

Lab Sample ID: LCS 460-876528/3

Matrix: Water

Analysis Batch: 876528

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0200	0.0203		mg/L		102	71 - 126
2-Butanone (MEK)	0.100	0.106		mg/L		106	61 - 128
Carbon tetrachloride	0.0200	0.0217		mg/L		109	61 - 131
Chlorobenzene	0.0200	0.0221		mg/L		111	80 - 120
Chloroform	0.0200	0.0211		mg/L		106	78 - 125
1,2-Dichloroethane	0.0200	0.0199		mg/L		99	66 - 129
1,1-Dichloroethene	0.0200	0.0215		mg/L		107	68 - 133
Tetrachloroethene	0.0200	0.0228		mg/L		114	70 - 127

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QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington-Frac Tank

Job ID: 180-146944-1

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

Lab Sample ID: LCS 460-876528/3

Matrix: Water

Analysis Batch: 876528

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Trichloroethene	0.0200	0.0213		mg/L		107	71 - 121
Vinyl chloride	0.0200	0.0212		mg/L		106	55 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	107		76 - 120
Dibromofluoromethane (Surr)	103		77 - 124
1,2-Dichloroethane-d4 (Surr)	98		70 - 128
Toluene-d8 (Surr)	102		80 - 120

Lab Sample ID: LCSD 460-876528/4

Matrix: Water

Analysis Batch: 876528

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0200	0.0179		mg/L		90	71 - 126	12	30
2-Butanone (MEK)	0.100	0.0970		mg/L		97	61 - 128	9	30
Carbon tetrachloride	0.0200	0.0187		mg/L		94	61 - 131	15	30
Chlorobenzene	0.0200	0.0195		mg/L		97	80 - 120	13	30
Chloroform	0.0200	0.0186		mg/L		93	78 - 125	13	30
1,2-Dichloroethane	0.0200	0.0180		mg/L		90	66 - 129	10	30
1,1-Dichloroethene	0.0200	0.0189		mg/L		94	68 - 133	13	30
Tetrachloroethene	0.0200	0.0196		mg/L		98	70 - 127	15	30
Trichloroethene	0.0200	0.0188		mg/L		94	71 - 121	13	30
Vinyl chloride	0.0200	0.0199		mg/L		99	55 - 144	7	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	108		76 - 120
Dibromofluoromethane (Surr)	103		77 - 124
1,2-Dichloroethane-d4 (Surr)	96		70 - 128
Toluene-d8 (Surr)	101		80 - 120

Lab Sample ID: LB 460-876291/1-A

Matrix: Water

Analysis Batch: 876380

Client Sample ID: Method Blank

Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.010	0.0020	mg/L			11/07/22 11:38	10
2-Butanone (MEK)	ND		0.050	0.019	mg/L			11/07/22 11:38	10
Carbon tetrachloride	ND		0.010	0.0021	mg/L			11/07/22 11:38	10
Chlorobenzene	ND		0.010	0.0038	mg/L			11/07/22 11:38	10
Chloroform	ND		0.010	0.0033	mg/L			11/07/22 11:38	10
1,2-Dichloroethane	ND		0.010	0.0043	mg/L			11/07/22 11:38	10
1,1-Dichloroethene	ND		0.010	0.0026	mg/L			11/07/22 11:38	10
Tetrachloroethene	ND		0.010	0.0025	mg/L			11/07/22 11:38	10
Trichloroethene	ND		0.010	0.0031	mg/L			11/07/22 11:38	10
Vinyl chloride	ND		0.010	0.0017	mg/L			11/07/22 11:38	10

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QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington-Frac Tank

Job ID: 180-146944-1

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

Lab Sample ID: LB 460-876291/1-A

Matrix: Water

Analysis Batch: 876380

Client Sample ID: Method Blank

Prep Type: TCLP

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		76 - 120		11/07/22 11:38	10
Dibromofluoromethane (Surr)	93		77 - 124		11/07/22 11:38	10
1,2-Dichloroethane-d4 (Surr)	89		70 - 128		11/07/22 11:38	10
Toluene-d8 (Surr)	93		80 - 120		11/07/22 11:38	10

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

Lab Sample ID: MB 460-875351/1-A

Matrix: Water

Analysis Batch: 875395

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 875351

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00044	mg/L		11/01/22 06:41	11/01/22 13:45	1
2,4-Dinitrotoluene	ND		0.010	0.0010	mg/L		11/01/22 06:41	11/01/22 13:45	1
Hexachlorobenzene	ND		0.0010	0.00040	mg/L		11/01/22 06:41	11/01/22 13:45	1
Hexachlorobutadiene	ND		0.0010	0.00078	mg/L		11/01/22 06:41	11/01/22 13:45	1
Hexachloroethane	ND		0.0020	0.00080	mg/L		11/01/22 06:41	11/01/22 13:45	1
2-Methylphenol	ND		0.010	0.00067	mg/L		11/01/22 06:41	11/01/22 13:45	1
Methylphenol, 3 & 4	ND		0.010	0.00065	mg/L		11/01/22 06:41	11/01/22 13:45	1
Nitrobenzene	ND		0.0010	0.00057	mg/L		11/01/22 06:41	11/01/22 13:45	1
Pentachlorophenol	ND		0.020	0.0014	mg/L		11/01/22 06:41	11/01/22 13:45	1
Pyridine	ND		0.010	0.0019	mg/L		11/01/22 06:41	11/01/22 13:45	1
2,4,5-Trichlorophenol	ND		0.010	0.00088	mg/L		11/01/22 06:41	11/01/22 13:45	1
2,4,6-Trichlorophenol	ND		0.010	0.00086	mg/L		11/01/22 06:41	11/01/22 13:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	92		46 - 139	11/01/22 06:41	11/01/22 13:45	1
2-Fluorophenol (Surr)	57		19 - 80	11/01/22 06:41	11/01/22 13:45	1
Nitrobenzene-d5 (Surr)	97		52 - 137	11/01/22 06:41	11/01/22 13:45	1
Phenol-d5 (Surr)	37		10 - 56	11/01/22 06:41	11/01/22 13:45	1
Terphenyl-d14 (Surr)	98		22 - 150	11/01/22 06:41	11/01/22 13:45	1
2,4,6-Tribromophenol (Surr)	133		37 - 150	11/01/22 06:41	11/01/22 13:45	1

Lab Sample ID: LCS 460-875351/2-A

Matrix: Water

Analysis Batch: 875395

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 875351

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	0.0800	0.0616		mg/L		77	35 - 120
2,4-Dinitrotoluene	0.0800	0.0818		mg/L		102	68 - 134
Hexachlorobenzene	0.0800	0.0867		mg/L		108	61 - 128
Hexachlorobutadiene	0.0800	0.0673		mg/L		84	27 - 127
Hexachloroethane	0.0800	0.0599		mg/L		75	26 - 120
2-Methylphenol	0.0800	0.0523		mg/L		65	44 - 120
Methylphenol, 3 & 4	0.0800	0.0468		mg/L		59	33 - 120
Nitrobenzene	0.0800	0.0733		mg/L		92	64 - 120
Pentachlorophenol	0.160	0.202		mg/L		126	24 - 131
Pyridine	0.160	0.0690		mg/L		43	10 - 120

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QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington-Frac Tank

Job ID: 180-146944-1

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

Lab Sample ID: LCS 460-875351/2-A

Matrix: Water

Analysis Batch: 875395

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 875351

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-Trichlorophenol	0.0800	0.0711		mg/L		89	58 - 120
2,4,6-Trichlorophenol	0.0800	0.0740		mg/L		92	61 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	78		46 - 139
2-Fluorophenol (Surr)	43		19 - 80
Nitrobenzene-d5 (Surr)	80		52 - 137
Phenol-d5 (Surr)	29		10 - 56
Terphenyl-d14 (Surr)	78		22 - 150
2,4,6-Tribromophenol (Surr)	125		37 - 150

Lab Sample ID: LCSD 460-875351/3-A

Matrix: Water

Analysis Batch: 875395

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 875351

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene	0.0800	0.0618		mg/L		77	35 - 120	0	30
2,4-Dinitrotoluene	0.0800	0.0825		mg/L		103	68 - 134	1	30
Hexachlorobenzene	0.0800	0.0856		mg/L		107	61 - 128	1	30
Hexachlorobutadiene	0.0800	0.0683		mg/L		85	27 - 127	1	30
Hexachloroethane	0.0800	0.0604		mg/L		75	26 - 120	1	30
2-Methylphenol	0.0800	0.0516		mg/L		64	44 - 120	1	30
Methylphenol, 3 & 4	0.0800	0.0455		mg/L		57	33 - 120	3	30
Nitrobenzene	0.0800	0.0725		mg/L		91	64 - 120	1	30
Pentachlorophenol	0.160	0.200		mg/L		125	24 - 131	1	30
Pyridine	0.160	0.0661		mg/L		41	10 - 120	4	30
2,4,5-Trichlorophenol	0.0800	0.0737		mg/L		92	58 - 120	4	30
2,4,6-Trichlorophenol	0.0800	0.0736		mg/L		92	61 - 120	0	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	79		46 - 139
2-Fluorophenol (Surr)	43		19 - 80
Nitrobenzene-d5 (Surr)	79		52 - 137
Phenol-d5 (Surr)	28		10 - 56
Terphenyl-d14 (Surr)	79		22 - 150
2,4,6-Tribromophenol (Surr)	127		37 - 150

Lab Sample ID: LB 460-875228/1-B

Matrix: Water

Analysis Batch: 875395

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 875351

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00044	mg/L		11/01/22 06:41	11/01/22 21:04	1
2,4-Dinitrotoluene	ND		0.010	0.0010	mg/L		11/01/22 06:41	11/01/22 21:04	1
Hexachlorobenzene	ND		0.0010	0.00040	mg/L		11/01/22 06:41	11/01/22 21:04	1
Hexachlorobutadiene	ND		0.0010	0.00078	mg/L		11/01/22 06:41	11/01/22 21:04	1
Hexachloroethane	ND		0.0020	0.00080	mg/L		11/01/22 06:41	11/01/22 21:04	1
2-Methylphenol	ND		0.010	0.00067	mg/L		11/01/22 06:41	11/01/22 21:04	1

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QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington-Frac Tank

Job ID: 180-146944-1

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

Lab Sample ID: LB 460-875228/1-B

Matrix: Water

Analysis Batch: 875395

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 875351

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylphenol, 3 & 4	ND		0.010	0.00065	mg/L		11/01/22 06:41	11/01/22 21:04	1
Nitrobenzene	ND		0.0010	0.00057	mg/L		11/01/22 06:41	11/01/22 21:04	1
Pentachlorophenol	ND		0.020	0.0014	mg/L		11/01/22 06:41	11/01/22 21:04	1
Pyridine	ND		0.010	0.0019	mg/L		11/01/22 06:41	11/01/22 21:04	1
2,4,5-Trichlorophenol	ND		0.010	0.00088	mg/L		11/01/22 06:41	11/01/22 21:04	1
2,4,6-Trichlorophenol	ND		0.010	0.00086	mg/L		11/01/22 06:41	11/01/22 21:04	1

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		46 - 139	11/01/22 06:41	11/01/22 21:04	1
2-Fluorophenol (Surr)	58		19 - 80	11/01/22 06:41	11/01/22 21:04	1
Nitrobenzene-d5 (Surr)	98		52 - 137	11/01/22 06:41	11/01/22 21:04	1
Phenol-d5 (Surr)	37		10 - 56	11/01/22 06:41	11/01/22 21:04	1
Terphenyl-d14 (Surr)	97		22 - 150	11/01/22 06:41	11/01/22 21:04	1
2,4,6-Tribromophenol (Surr)	119		37 - 150	11/01/22 06:41	11/01/22 21:04	1

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 460-875434/1-A

Matrix: Water

Analysis Batch: 875539

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 875434

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0050	0.000055	mg/L		11/01/22 11:46	11/02/22 04:42	1
Chlordane (technical)	ND		0.0050	0.000055	mg/L		11/01/22 11:46	11/02/22 04:42	1
Endrin	ND		0.00050	0.0000040	mg/L		11/01/22 11:46	11/02/22 04:42	1
Endrin	ND		0.00050	0.0000040	mg/L		11/01/22 11:46	11/02/22 04:42	1
gamma-BHC (Lindane)	ND		0.00050	0.000012	mg/L		11/01/22 11:46	11/02/22 04:42	1
gamma-BHC (Lindane)	ND		0.00050	0.000012	mg/L		11/01/22 11:46	11/02/22 04:42	1
Heptachlor	ND		0.00050	0.0000030	mg/L		11/01/22 11:46	11/02/22 04:42	1
Heptachlor	ND		0.00050	0.0000030	mg/L		11/01/22 11:46	11/02/22 04:42	1
Heptachlor epoxide	ND		0.00050	0.0000050	mg/L		11/01/22 11:46	11/02/22 04:42	1
Heptachlor epoxide	ND		0.00050	0.0000050	mg/L		11/01/22 11:46	11/02/22 04:42	1
Methoxychlor	ND		0.00050	0.0000040	mg/L		11/01/22 11:46	11/02/22 04:42	1
Methoxychlor	ND		0.00050	0.0000040	mg/L		11/01/22 11:46	11/02/22 04:42	1
Toxaphene	ND		0.0050	0.00011	mg/L		11/01/22 11:46	11/02/22 04:42	1
Toxaphene	ND		0.0050	0.00011	mg/L		11/01/22 11:46	11/02/22 04:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	123	S1+	15 - 121	11/01/22 11:46	11/02/22 04:42	1
DCB Decachlorobiphenyl	89		15 - 121	11/01/22 11:46	11/02/22 04:42	1
Tetrachloro-m-xylene	86		17 - 120	11/01/22 11:46	11/02/22 04:42	1
Tetrachloro-m-xylene	76		17 - 120	11/01/22 11:46	11/02/22 04:42	1

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QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington-Frac Tank

Job ID: 180-146944-1

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

Lab Sample ID: LCS 460-875434/2-A

Matrix: Water

Analysis Batch: 875539

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 875434

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Endrin	0.000800	0.000741		mg/L		93	57 - 135
Endrin	0.000800	0.000661		mg/L		83	57 - 135
gamma-BHC (Lindane)	0.000800	0.000808		mg/L		101	65 - 123
gamma-BHC (Lindane)	0.000800	0.000745		mg/L		93	65 - 123
Heptachlor	0.000800	0.000852		mg/L		106	59 - 120
Heptachlor	0.000800	0.000765		mg/L		96	59 - 120
Heptachlor epoxide	0.000800	0.000818		mg/L		102	59 - 128
Heptachlor epoxide	0.000800	0.000742		mg/L		93	59 - 128
Methoxychlor	0.000800	0.000939		mg/L		117	35 - 138
Methoxychlor	0.000800	0.000779		mg/L		97	35 - 138

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	116		15 - 121
DCB Decachlorobiphenyl	84		15 - 121
Tetrachloro-m-xylene	82		17 - 120
Tetrachloro-m-xylene	75		17 - 120

Lab Sample ID: LCSD 460-875434/3-A

Matrix: Water

Analysis Batch: 875539

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 875434

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Endrin	0.000800	0.000748		mg/L		93	57 - 135	1	30
Endrin	0.000800	0.000670		mg/L		84	57 - 135	1	30
gamma-BHC (Lindane)	0.000800	0.000827		mg/L		103	65 - 123	2	30
gamma-BHC (Lindane)	0.000800	0.000774		mg/L		97	65 - 123	4	30
Heptachlor	0.000800	0.000874		mg/L		109	59 - 120	3	30
Heptachlor	0.000800	0.000795		mg/L		99	59 - 120	4	30
Heptachlor epoxide	0.000800	0.000843		mg/L		105	59 - 128	3	30
Heptachlor epoxide	0.000800	0.000771		mg/L		96	59 - 128	4	30
Methoxychlor	0.000800	0.000941		mg/L		118	35 - 138	0	30
Methoxychlor	0.000800	0.000792		mg/L		99	35 - 138	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	115		15 - 121
DCB Decachlorobiphenyl	83		15 - 121
Tetrachloro-m-xylene	82		17 - 120
Tetrachloro-m-xylene	76		17 - 120

Lab Sample ID: LB 460-875228/1-D

Matrix: Water

Analysis Batch: 875539

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 875434

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0050	0.000055	mg/L		11/01/22 11:50	11/02/22 04:58	1
Endrin	ND		0.00050	0.0000040	mg/L		11/01/22 11:50	11/02/22 04:58	1
gamma-BHC (Lindane)	ND		0.00050	0.000012	mg/L		11/01/22 11:50	11/02/22 04:58	1
Heptachlor	ND		0.00050	0.0000030	mg/L		11/01/22 11:50	11/02/22 04:58	1

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QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington-Frac Tank

Job ID: 180-146944-1

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

Lab Sample ID: LB 460-875228/1-D

Matrix: Water

Analysis Batch: 875539

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 875434

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	ND		0.00050	0.0000050	mg/L		11/01/22 11:50	11/02/22 04:58	1
Methoxychlor	ND		0.00050	0.0000040	mg/L		11/01/22 11:50	11/02/22 04:58	1
Toxaphene	ND		0.0050	0.00011	mg/L		11/01/22 11:50	11/02/22 04:58	1
Surrogate	LB %Recovery	LB Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	112		15 - 121				11/01/22 11:50	11/02/22 04:58	1
DCB Decachlorobiphenyl	82		15 - 121				11/01/22 11:50	11/02/22 04:58	1
Tetrachloro-m-xylene	56		17 - 120				11/01/22 11:50	11/02/22 04:58	1
Tetrachloro-m-xylene	51		17 - 120				11/01/22 11:50	11/02/22 04:58	1

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 460-875354/1-A

Matrix: Water

Analysis Batch: 875396

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 875354

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.083	0.0050	mg/L		11/01/22 07:12	11/02/22 06:42	1
2,4-D	ND		0.083	0.0050	mg/L		11/01/22 07:12	11/02/22 06:42	1
Silvex (2,4,5-TP)	ND		0.083	0.0040	mg/L		11/01/22 07:12	11/02/22 06:42	1
Silvex (2,4,5-TP)	ND		0.083	0.0040	mg/L		11/01/22 07:12	11/02/22 06:42	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	21		10 - 150				11/01/22 07:12	11/02/22 06:42	1
2,4-Dichlorophenylacetic acid	19		10 - 150				11/01/22 07:12	11/02/22 06:42	1

Lab Sample ID: LCS 460-875354/2-A

Matrix: Water

Analysis Batch: 875396

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 875354

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-D	0.133	0.0824	J	mg/L		62	51 - 150
2,4-D	0.133	0.0837		mg/L		63	51 - 150
Silvex (2,4,5-TP)	0.0333	0.0225	J	mg/L		67	50 - 150
Silvex (2,4,5-TP)	0.0333	0.0208	J	mg/L		62	50 - 150
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
2,4-Dichlorophenylacetic acid	65		10 - 150				
2,4-Dichlorophenylacetic acid	66		10 - 150				

Lab Sample ID: LCSD 460-875354/3-A

Matrix: Water

Analysis Batch: 875396

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 875354

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4-D	0.133	0.0882		mg/L		66	51 - 150	7	30
2,4-D	0.133	0.0876		mg/L		66	51 - 150	4	30
Silvex (2,4,5-TP)	0.0333	0.0255	J	mg/L		76	50 - 150	12	30

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QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington-Frac Tank

Job ID: 180-146944-1

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: LCSD 460-875354/3-A

Matrix: Water

Analysis Batch: 875396

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 875354

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silvex (2,4,5-TP)	0.0333	0.0231	J	mg/L		69	50 - 150	11	30
Surrogate	%Recovery	LCSD Qualifier	LCSD Limits						
2,4-Dichlorophenylacetic acid	72		10 - 150						
2,4-Dichlorophenylacetic acid	72		10 - 150						

Lab Sample ID: LB 460-875228/1-C

Matrix: Water

Analysis Batch: 875396

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 875354

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.083	0.0050	mg/L		11/01/22 07:14	11/02/22 09:11	1
Silvex (2,4,5-TP)	ND		0.083	0.0040	mg/L		11/01/22 07:14	11/02/22 09:11	1
Surrogate	%Recovery	LB Qualifier	LB Limits						
2,4-Dichlorophenylacetic acid	76		10 - 150						
2,4-Dichlorophenylacetic acid	77		10 - 150						

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

Lab Sample ID: MB 180-416529/1-A

Matrix: Water

Analysis Batch: 416820

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 416529

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.40	0.19	ug/L		10/28/22 04:30	11/01/22 18:51	1
PCB-1221	ND		0.40	0.23	ug/L		10/28/22 04:30	11/01/22 18:51	1
PCB-1232	ND		0.40	0.21	ug/L		10/28/22 04:30	11/01/22 18:51	1
PCB-1242	ND		0.40	0.14	ug/L		10/28/22 04:30	11/01/22 18:51	1
PCB-1248	ND		0.40	0.32	ug/L		10/28/22 04:30	11/01/22 18:51	1
PCB-1254	ND		0.40	0.18	ug/L		10/28/22 04:30	11/01/22 18:51	1
PCB-1260	ND		0.40	0.16	ug/L		10/28/22 04:30	11/01/22 18:51	1
PCB-1262	ND		0.40	0.28	ug/L		10/28/22 04:30	11/01/22 18:51	1
PCB-1268	ND		0.40	0.18	ug/L		10/28/22 04:30	11/01/22 18:51	1
Surrogate	%Recovery	MB Qualifier	MB Limits						
DCB Decachlorobiphenyl (Surr)	73		68 - 142						
DCB Decachlorobiphenyl (Surr)	83		68 - 142						
Tetrachloro-m-xylene (Surr)	65		57 - 121						
Tetrachloro-m-xylene (Surr)	63		57 - 121						

Lab Sample ID: LCS 180-416529/2-A

Matrix: Water

Analysis Batch: 416820

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 416529

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	40.0	24.4		ug/L		61	46 - 118
PCB-1260	40.0	28.5		ug/L		71	56 - 115

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QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington-Frac Tank

Job ID: 180-146944-1

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

Lab Sample ID: LCS 180-416529/2-A

Matrix: Water

Analysis Batch: 416820

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 416529

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	75		68 - 142
DCB Decachlorobiphenyl (Surr)	87		68 - 142
Tetrachloro-m-xylene (Surr)	67		57 - 121
Tetrachloro-m-xylene (Surr)	68		57 - 121

Lab Sample ID: LCSD 180-416529/3-A

Matrix: Water

Analysis Batch: 416820

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 416529

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	40.0	23.6		ug/L		59	46 - 118	4	15
PCB-1260	40.0	27.5		ug/L		69	56 - 115	4	17

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	75		68 - 142
DCB Decachlorobiphenyl (Surr)	88		68 - 142
Tetrachloro-m-xylene (Surr)	67		57 - 121
Tetrachloro-m-xylene (Surr)	66		57 - 121

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 460-875442/1-A

Matrix: Water

Analysis Batch: 875437

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 875442

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.030	0.0099	mg/L		11/01/22 12:33	11/01/22 15:19	2
Barium	ND		0.40	0.056	mg/L		11/01/22 12:33	11/01/22 15:19	2
Cadmium	ND		0.0080	0.00071	mg/L		11/01/22 12:33	11/01/22 15:19	2
Chromium	ND		0.020	0.010	mg/L		11/01/22 12:33	11/01/22 15:19	2
Lead	ND		0.020	0.0051	mg/L		11/01/22 12:33	11/01/22 15:19	2
Selenium	ND		0.040	0.014	mg/L		11/01/22 12:33	11/01/22 15:19	2
Silver	ND		0.020	0.0064	mg/L		11/01/22 12:33	11/01/22 15:19	2

Lab Sample ID: LCS 460-875442/2-A

Matrix: Water

Analysis Batch: 875437

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 875442

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	5.00	5.42		mg/L		108	80 - 120
Barium	10.0	11.3		mg/L		113	80 - 120
Cadmium	1.00	1.15		mg/L		115	80 - 120
Chromium	5.00	5.41		mg/L		108	80 - 120
Lead	5.00	5.68		mg/L		114	80 - 120
Selenium	1.00	1.07		mg/L		107	80 - 120
Silver	0.500	0.511		mg/L		102	80 - 120

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QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington-Frac Tank

Job ID: 180-146944-1

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

Lab Sample ID: LB 460-875277/1-B ^5
Matrix: Water
Analysis Batch: 875437

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 875442

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.075	0.025	mg/L		11/01/22 12:33	11/01/22 15:55	5
Barium	ND		1.0	0.14	mg/L		11/01/22 12:33	11/01/22 15:55	5
Cadmium	ND		0.020	0.0018	mg/L		11/01/22 12:33	11/01/22 15:55	5
Chromium	ND		0.050	0.025	mg/L		11/01/22 12:33	11/01/22 15:55	5
Lead	ND		0.050	0.013	mg/L		11/01/22 12:33	11/01/22 15:55	5
Selenium	ND		0.10	0.035	mg/L		11/01/22 12:33	11/01/22 15:55	5
Silver	ND		0.050	0.016	mg/L		11/01/22 12:33	11/01/22 15:55	5

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 460-875466/1-A
Matrix: Water
Analysis Batch: 875481

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 875466

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000091	mg/L		11/01/22 15:34	11/01/22 16:01	1

Lab Sample ID: MB 460-876491/1-A
Matrix: Water
Analysis Batch: 876518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 876491

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000091	mg/L		11/07/22 14:52	11/07/22 16:33	1

Lab Sample ID: MB 460-876910/1-A
Matrix: Water
Analysis Batch: 876955

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 876910

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000091	mg/L		11/09/22 11:28	11/09/22 14:18	1

Lab Sample ID: LCS 460-876910/2-A
Matrix: Water
Analysis Batch: 876955

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 876910

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00500	0.00505		mg/L		101	80 - 120

Lab Sample ID: LB 460-875228/1-E
Matrix: Water
Analysis Batch: 875481

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 875466

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000091	mg/L		11/01/22 15:34	11/01/22 16:50	1

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QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington-Frac Tank

Job ID: 180-146944-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LB 460-876333/1-F
Matrix: Water
Analysis Batch: 876518

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 876491

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000091	mg/L		11/07/22 14:52	11/07/22 17:00	1

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 460-876331/2-A
Matrix: Water
Analysis Batch: 876350

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 876331

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0040	mg/L		11/06/22 15:24	11/06/22 19:07	1

Lab Sample ID: LCS 460-876331/3-A
Matrix: Water
Analysis Batch: 876350

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 876331

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.0941		mg/L		94	85 - 115

Lab Sample ID: MRL 460-876331/1-A
Matrix: Water
Analysis Batch: 876350

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 876331

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.0100	0.0103		mg/L		103	50 - 150

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 240-549551/1-A
Matrix: Water
Analysis Batch: 549564

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 549551

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		3.0	1.4	mg/L		10/31/22 10:11	10/31/22 10:55	1

Lab Sample ID: LCS 240-549551/2-A
Matrix: Water
Analysis Batch: 549564

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 549551

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	8.13	7.07		mg/L		87	70 - 120

Method: EPA 1010A - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 180-417208/1
Matrix: Water
Analysis Batch: 417208

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Flashpoint	81.0	83.70		Degrees F		103	96 - 103

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QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington-Frac Tank

Job ID: 180-146944-1

Method: EPA 1010A - Ignitability, Pensky-Martens Closed-Cup Method (Continued)

Lab Sample ID: 180-146944-1 DU

Matrix: Water

Analysis Batch: 417208

Client Sample ID: SSHS-IRM5A2-FRACK TANK 1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Flashpoint	>200		>200.0		Degrees F		NC	10

Method: EPA 9040C - pH

Lab Sample ID: LCS 180-417133/27

Matrix: Water

Analysis Batch: 417133

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		SU		100	99 - 101

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington-Frac Tank

Job ID: 180-146944-1

GC/MS VOA

Leach Batch: 876291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146944-1	SSHS-IRM5A2-FRACK TANK 1	TCLP	Water	1311	
LB 460-876291/1-A	Method Blank	TCLP	Water	1311	

Analysis Batch: 876380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 460-876291/1-A	Method Blank	TCLP	Water	8260D	876291
MB 460-876380/9	Method Blank	Total/NA	Water	8260D	
LCS 460-876380/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 460-876380/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 876528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146944-1	SSHS-IRM5A2-FRACK TANK 1	TCLP	Water	8260D	876291
MB 460-876528/8	Method Blank	Total/NA	Water	8260D	
LCS 460-876528/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 460-876528/4	Lab Control Sample Dup	Total/NA	Water	8260D	

GC/MS Semi VOA

Leach Batch: 875228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146944-1	SSHS-IRM5A2-FRACK TANK 1	TCLP	Water	1311	
LB 460-875228/1-B	Method Blank	TCLP	Water	1311	

Prep Batch: 875351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146944-1	SSHS-IRM5A2-FRACK TANK 1	TCLP	Water	3510C	875228
LB 460-875228/1-B	Method Blank	TCLP	Water	3510C	875228
MB 460-875351/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-875351/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-875351/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 875395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146944-1	SSHS-IRM5A2-FRACK TANK 1	TCLP	Water	8270E	875351
LB 460-875228/1-B	Method Blank	TCLP	Water	8270E	875351
MB 460-875351/1-A	Method Blank	Total/NA	Water	8270E	875351
LCS 460-875351/2-A	Lab Control Sample	Total/NA	Water	8270E	875351
LCSD 460-875351/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	875351

GC Semi VOA

Prep Batch: 416529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146944-1	SSHS-IRM5A2-FRACK TANK 1	Total/NA	Water	3510C	
MB 180-416529/1-A	Method Blank	Total/NA	Water	3510C	
LCS 180-416529/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 180-416529/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 416820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146944-1	SSHS-IRM5A2-FRACK TANK 1	Total/NA	Water	EPA 8082A	416529

Eurofins Pittsburgh

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington-Frac Tank

Job ID: 180-146944-1

GC Semi VOA (Continued)

Analysis Batch: 416820 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-416529/1-A	Method Blank	Total/NA	Water	EPA 8082A	416529
LCS 180-416529/2-A	Lab Control Sample	Total/NA	Water	EPA 8082A	416529
LCSD 180-416529/3-A	Lab Control Sample Dup	Total/NA	Water	EPA 8082A	416529

Leach Batch: 875228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146944-1	SSHS-IRM5A2-FRACK TANK 1	TCLP	Water	1311	
LB 460-875228/1-C	Method Blank	TCLP	Water	1311	
LB 460-875228/1-D	Method Blank	TCLP	Water	1311	

Prep Batch: 875354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146944-1	SSHS-IRM5A2-FRACK TANK 1	TCLP	Water	8151A	875228
LB 460-875228/1-C	Method Blank	TCLP	Water	8151A	875228
MB 460-875354/1-A	Method Blank	Total/NA	Water	8151A	
LCS 460-875354/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 460-875354/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	

Analysis Batch: 875396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146944-1	SSHS-IRM5A2-FRACK TANK 1	TCLP	Water	8151A	875354
LB 460-875228/1-C	Method Blank	TCLP	Water	8151A	875354
MB 460-875354/1-A	Method Blank	Total/NA	Water	8151A	875354
LCS 460-875354/2-A	Lab Control Sample	Total/NA	Water	8151A	875354
LCSD 460-875354/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	875354

Prep Batch: 875434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146944-1	SSHS-IRM5A2-FRACK TANK 1	TCLP	Water	3510C	875228
LB 460-875228/1-D	Method Blank	TCLP	Water	3510C	875228
MB 460-875434/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-875434/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-875434/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 875539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146944-1	SSHS-IRM5A2-FRACK TANK 1	TCLP	Water	8081B	875434
LB 460-875228/1-D	Method Blank	TCLP	Water	8081B	875434
MB 460-875434/1-A	Method Blank	Total/NA	Water	8081B	875434
LCS 460-875434/2-A	Lab Control Sample	Total/NA	Water	8081B	875434
LCSD 460-875434/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	875434

Metals

Leach Batch: 875228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146944-1	SSHS-IRM5A2-FRACK TANK 1	TCLP	Water	1311	
LB 460-875228/1-E	Method Blank	TCLP	Water	1311	

Eurofins Pittsburgh

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington-Frac Tank

Job ID: 180-146944-1

Metals

Leach Batch: 875277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 460-875277/1-B ^5	Method Blank	TCLP	Water	1311	

Analysis Batch: 875437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146944-1	SSHS-IRM5A2-FRACK TANK 1	TCLP	Water	6010D	875442
LB 460-875277/1-B ^5	Method Blank	TCLP	Water	6010D	875442
MB 460-875442/1-A	Method Blank	Total/NA	Water	6010D	875442
LCS 460-875442/2-A	Lab Control Sample	Total/NA	Water	6010D	875442

Prep Batch: 875442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146944-1	SSHS-IRM5A2-FRACK TANK 1	TCLP	Water	3010A	875228
LB 460-875277/1-B ^5	Method Blank	TCLP	Water	3010A	875277
MB 460-875442/1-A	Method Blank	Total/NA	Water	3010A	
LCS 460-875442/2-A	Lab Control Sample	Total/NA	Water	3010A	

Prep Batch: 875466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 460-875228/1-E	Method Blank	TCLP	Water	7470A	875228
MB 460-875466/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 875481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 460-875228/1-E	Method Blank	TCLP	Water	7470A	875466
MB 460-875466/1-A	Method Blank	Total/NA	Water	7470A	875466

Leach Batch: 876333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 460-876333/1-F	Method Blank	TCLP	Water	1311	

Prep Batch: 876491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 460-876333/1-F	Method Blank	TCLP	Water	7470A	876333
MB 460-876491/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 876518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 460-876333/1-F	Method Blank	TCLP	Water	7470A	876491
MB 460-876491/1-A	Method Blank	Total/NA	Water	7470A	876491

Prep Batch: 876910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146944-1	SSHS-IRM5A2-FRACK TANK 1	TCLP	Water	7470A	875228
MB 460-876910/1-A	Method Blank	Total/NA	Water	7470A	
LCS 460-876910/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 876955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146944-1	SSHS-IRM5A2-FRACK TANK 1	TCLP	Water	7470A	876910
MB 460-876910/1-A	Method Blank	Total/NA	Water	7470A	876910
LCS 460-876910/2-A	Lab Control Sample	Total/NA	Water	7470A	876910

Eurofins Pittsburgh

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington-Frac Tank

Job ID: 180-146944-1

General Chemistry

Analysis Batch: 417133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146944-1	SSHS-IRM5A2-FRACK TANK 1	Total/NA	Water	EPA 9040C	
LCS 180-417133/27	Lab Control Sample	Total/NA	Water	EPA 9040C	

Analysis Batch: 417208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146944-1	SSHS-IRM5A2-FRACK TANK 1	Total/NA	Water	EPA 1010A	
LCS 180-417208/1	Lab Control Sample	Total/NA	Water	EPA 1010A	
180-146944-1 DU	SSHS-IRM5A2-FRACK TANK 1	Total/NA	Water	EPA 1010A	

Prep Batch: 549551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146944-1	SSHS-IRM5A2-FRACK TANK 1	Total/NA	Water	9030B	
MB 240-549551/1-A	Method Blank	Total/NA	Water	9030B	
LCS 240-549551/2-A	Lab Control Sample	Total/NA	Water	9030B	

Analysis Batch: 549564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146944-1	SSHS-IRM5A2-FRACK TANK 1	Total/NA	Water	9034	549551
MB 240-549551/1-A	Method Blank	Total/NA	Water	9034	549551
LCS 240-549551/2-A	Lab Control Sample	Total/NA	Water	9034	549551

Prep Batch: 876331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146944-1	SSHS-IRM5A2-FRACK TANK 1	Total/NA	Water	9012B	
MB 460-876331/2-A	Method Blank	Total/NA	Water	9012B	
LCS 460-876331/3-A	Lab Control Sample	Total/NA	Water	9012B	
MRL 460-876331/1-A	Lab Control Sample	Total/NA	Water	9012B	

Analysis Batch: 876350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146944-1	SSHS-IRM5A2-FRACK TANK 1	Total/NA	Water	9012B	876331
MB 460-876331/2-A	Method Blank	Total/NA	Water	9012B	876331
LCS 460-876331/3-A	Lab Control Sample	Total/NA	Water	9012B	876331
MRL 460-876331/1-A	Lab Control Sample	Total/NA	Water	9012B	876331

Ver. 01/16/2019

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-146944-1

Login Number: 146944

List Number: 1

Creator: Dunlap, David A

List Source: Eurofins Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
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.	True	
Cooler Temperature is acceptable.	True	
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 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.	True	
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-146944-1

Login Number: 146944

List Number: 2

Creator: Armbruster, Chris

List Source: Eurofins Edison

List Creation: 10/28/22 12:14 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 is acceptable.	True	
Cooler Temperature is recorded.	True	2.2°C IR9
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.	True	
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Aron Krasnopoler
Geosyntec Consultants Inc
10211 Wincopin Circle
4th Floor
Columbia, Maryland 21044

Generated 8/29/2023 4:12:01 PM

JOB DESCRIPTION

Former Sperry Remington-Characterization-Frac Tank

JOB NUMBER

180-161087-1

Eurofins Pittsburgh

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.

PA Lab ID: 02-00416

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 Pittsburgh Project Manager.

Authorization



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Authorized for release by
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(412)963-2432

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Case Narrative

Client: Geosyntec Consultants Inc
Project/Site: Former Sperry Remington-Characterization-Frac Tank

Job ID: 180-161087-1

Job ID: 180-161087-1

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-161087-1

Receipt

The samples were received on 8/18/2023 at the Eurofins Pittsburgh, PA laboratory; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.8° C.

GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) analyzed in batch 180-444083 was below criteria for the following analyte: Vinyl chloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

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

Method 8081B: The continuing calibration verification (CCV) analyzed in batch 180-444331 (CCV 180-444331/2) was above criteria on column MR-1 for the following analyte: Toxaphene. As the CCV was high and Toxaphene was not detected in the associated sample, the results were reported.

Method 8081B: The continuing calibration verification (CCV) analyzed in batch 180-444331 (CCVIS 180-444331/6) was below criteria on column MR-2 for the following analyte: gamma-BHC (Lindane). Results were reported from column MR-1 which met criteria.

Method 8082A: The continuing calibration verification (CCV) analyzed in batch 180-444055 (CCV 180-444055/4) was below criteria for aroclor 1248 on column RTX-CLP1. Aroclor 1248 was not detected in the associated sample on either column.

Method 8082A: The continuing calibration verification (CCV) analyzed in batch 180-444055 (CCVIS 180-444055/26) was below criteria for aroclors 1016 and 1260 on column RTX-CLP1 and above criteria for surrogate decachlorobiphenyl on column RTX-CLP2. Aroclors 1016 and 1260 were not detected in the associated sample on either column. The associated sample surrogate recoveries were within the control limits.

Method 8082A: The continuing calibration verification (CCV) analyzed in batch 180-444055 (CCVIS 180-444055/47) was below criteria for aroclor 1260 on both columns. A reporting limit (RL) standard was analyzed, and aroclor 1260 was detected. Since the associated sample did not have aroclor 1260 detected, the results were reported.

Method 8151A: The continuing calibration verification (CCV) analyzed in batch 180-444767 (CCVRT 180-444767-1 and CCV 180-444767-9) were above criteria on column RTX-50 for the following analytes: 2,4-D and/or surrogate 2,4-dichlorophenyl acetic acid. As the CCV was high and 2,4-D was not detected in the associated sample, the results were reported. The associated sample surrogate recoveries were within the control limits.

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

Metals

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.

Definitions/Glossary

Client: Geosyntec Consultants Inc
Project/Site: Former Sperry Remington-Characterization-Frac
Tank

Job ID: 180-161087-1

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.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

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

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Project/Site: Former Sperry Remington-Characterization-Frac
Tank

Job ID: 180-161087-1

Laboratory: Eurofins Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11182	04-01-24
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
EPA 1010A		Water	Flashpoint
EPA 9040C		Water	pH

Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: Former Sperry Remington-Characterization-Frac
Tank

Job ID: 180-161087-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-161087-1	SSHS-IRM5A2-FRACK TANK2	Water	08/16/23 14:00	08/18/23 09:12

1

2

3

4

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10

11

12

13

Method Summary

Client: Geosyntec Consultants Inc
Project/Site: Former Sperry Remington-Characterization-Frac
Tank

Job ID: 180-161087-1

Method	Method Description	Protocol	Laboratory
EPA 8260C	Volatile Organic Compounds by GC/MS	SW846	EET PIT
EPA 8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET PIT
EPA 8081B	Organochlorine Pesticides (GC)	SW846	EET PIT
EPA 8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET PIT
EPA 8151A	Herbicides (GC)	SW846	EET PIT
EPA 6010C	Metals (ICP)	SW846	EET PIT
EPA 7470A	Mercury (CVAA)	SW846	EET PIT
EPA 1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	EET PIT
EPA 9014	Cyanide	SW846	EET PIT
EPA 9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	EET PIT
EPA 9040C	pH	SW846	EET PIT
3010A	Preparation, Total Metals	SW846	EET PIT
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET PIT
5030C	Purge and Trap	SW846	EET PIT
7470A	Preparation, Mercury	SW846	EET PIT
8151A	Extraction (Herbicides)	SW846	EET PIT
9010C	Cyanide, Distillation	SW846	EET PIT
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	EET PIT
EPA 1311	TCLP Extraction	SW846	EET PIT

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Former Sperry Remington-Characterization-Frac
Tank

Job ID: 180-161087-1

Client Sample ID: SSHS-IRM5A2-FRACK TANK2

Lab Sample ID: 180-161087-1

Date Collected: 08/16/23 14:00

Matrix: Water

Date Received: 08/18/23 09:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	EPA 1311			1.0 g	1.0 mL	444039	08/21/23 05:59	CRL	EET PIT
TCLP	Analysis	EPA 8260C		1	0.25 mL	5 mL	444083	08/21/23 13:32	SGR	EET PIT
		Instrument ID: CHHP10								
TCLP	Leach	EPA 1311			1.0 g	1.0 mL	444062	08/21/23 06:14	CRL	EET PIT
TCLP	Prep	3510C			200 mL	10.0 mL	444201	08/22/23 01:00	CBY	EET PIT
TCLP	Analysis	EPA 8270D		1	1 mL	1 mL	444280	08/22/23 18:11	VVP	EET PIT
		Instrument ID: CH722								
TCLP	Leach	EPA 1311			1.0 g	1.0 mL	444062	08/21/23 06:14	CRL	EET PIT
TCLP	Prep	3510C			100 mL	40.0 mL	444200	08/22/23 00:05	CBY	EET PIT
TCLP	Analysis	EPA 8081B		1	1 mL	1 mL	444331	08/23/23 13:07	SMW	EET PIT
		Instrument ID: CHGC15								
Total/NA	Prep	3510C			260 mL	10.0 mL	444049	08/21/23 00:00	CBY	EET PIT
Total/NA	Analysis	EPA 8082A		1	1 uL	1 uL	444055	08/21/23 19:38	JMO	EET PIT
		Instrument ID: CHGC16								
TCLP	Leach	EPA 1311			1.0 g	1.0 mL	444062	08/21/23 06:14	CRL	EET PIT
TCLP	Prep	8151A			100 mL	10.0 mL	444202	08/22/23 02:00	CBY	EET PIT
TCLP	Analysis	EPA 8151A		20	1 mL	1 mL	444767	08/28/23 07:47	JMO	EET PIT
		Instrument ID: CGC1								
TCLP	Leach	EPA 1311			1.0 g	1.0 mL	444062	08/21/23 06:14	CRL	EET PIT
TCLP	Prep	3010A			5 mL	50 mL	444124	08/21/23 12:43	SJM	EET PIT
TCLP	Analysis	EPA 6010C		1			444528	08/23/23 23:57	AAS	EET PIT
		Instrument ID: Q								
TCLP	Leach	EPA 1311			1.0 g	1.0 mL	444062	08/21/23 06:14	CRL	EET PIT
TCLP	Prep	7470A			25 mL	25 mL	444099	08/21/23 08:08	RJR	EET PIT
TCLP	Analysis	EPA 7470A		1			444283	08/22/23 11:11	RJR	EET PIT
		Instrument ID: HGY								
Total/NA	Analysis	EPA 1010A		1	70 mL	70 mL	444869	08/26/23 12:14	SNR	EET PIT
		Instrument ID: SPARKY								
Total/NA	Prep	9010C			6 mL	6 mL	444663	08/25/23 11:00	CMR	EET PIT
Total/NA	Analysis	EPA 9014		1			444698	08/25/23 14:46	CMR	EET PIT
		Instrument ID: SEAL1								
Total/NA	Prep	9030B			50 mL	50 mL	444275	08/22/23 12:04	BAB	EET PIT
Total/NA	Analysis	EPA 9034		1			444303	08/22/23 17:23	BAB	EET PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	EPA 9040C		1			444809	08/26/23 15:14	SNR	EET PIT
		Instrument ID: OZ								

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Eurofins Pittsburgh

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Former Sperry Remington-Characterization-Frac
Tank

Job ID: 180-161087-1

Analyst References:

- Lab: EET PIT
 - Batch Type: Leach
 - CRL = Craig Tronzo
 - Batch Type: Prep
 - BAB = Brooke Batyi
 - CBY = Charles Yushinski
 - CMR = Carl Reagle
 - RJR = Ron Rosenbaum
 - SJM = Shannon Mueller
 - Batch Type: Analysis
 - AAS = Ariana Swick
 - BAB = Brooke Batyi
 - CMR = Carl Reagle
 - JMO = John Oravec
 - RJR = Ron Rosenbaum
 - SGR = Steven Russell
 - SMW = Shelby Walters
 - SNR = Sabra Richart
 - VVP = Vincent Piccolino

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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Former Sperry Remington-Characterization-Frac
Tank

Job ID: 180-161087-1

Client Sample ID: SSHS-IRM5A2-FRACK TANK2

Lab Sample ID: 180-161087-1

Date Collected: 08/16/23 14:00

Matrix: Water

Date Received: 08/18/23 09:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.20	0.012	mg/L			08/21/23 13:32	1
2-Butanone (MEK)	ND		1.0	0.051	mg/L			08/21/23 13:32	1
Carbon tetrachloride	ND		0.20	0.018	mg/L			08/21/23 13:32	1
Chlorobenzene	ND		0.20	0.010	mg/L			08/21/23 13:32	1
Chloroform	ND		0.20	0.012	mg/L			08/21/23 13:32	1
1,2-Dichloroethane	ND		0.20	0.011	mg/L			08/21/23 13:32	1
1,1-Dichloroethene	ND		0.20	0.011	mg/L			08/21/23 13:32	1
Tetrachloroethene	ND		0.20	0.0093	mg/L			08/21/23 13:32	1
Trichloroethene	ND		0.20	0.014	mg/L			08/21/23 13:32	1
Vinyl chloride	ND		0.20	0.0081	mg/L			08/21/23 13:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		49 - 118		08/21/23 13:32	1
Dibromofluoromethane (Surr)	109		60 - 132		08/21/23 13:32	1
1,2-Dichloroethane-d4 (Surr)	105		52 - 151		08/21/23 13:32	1
Toluene-d8 (Surr)	106		53 - 124		08/21/23 13:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.050	0.0045	mg/L		08/22/23 01:00	08/22/23 18:11	1
2,4-Dinitrotoluene	ND		0.050	0.0079	mg/L		08/22/23 01:00	08/22/23 18:11	1
Hexachlorobenzene	ND		0.050	0.0055	mg/L		08/22/23 01:00	08/22/23 18:11	1
Hexachlorobutadiene	ND		0.050	0.0084	mg/L		08/22/23 01:00	08/22/23 18:11	1
Hexachloroethane	ND		0.050	0.0040	mg/L		08/22/23 01:00	08/22/23 18:11	1
2-Methylphenol	ND		0.050	0.0040	mg/L		08/22/23 01:00	08/22/23 18:11	1
Methylphenol, 3 & 4	ND		0.050	0.0079	mg/L		08/22/23 01:00	08/22/23 18:11	1
Nitrobenzene	ND		0.050	0.012	mg/L		08/22/23 01:00	08/22/23 18:11	1
Pentachlorophenol	ND		0.25	0.0075	mg/L		08/22/23 01:00	08/22/23 18:11	1
Pyridine	ND		0.10	0.0082	mg/L		08/22/23 01:00	08/22/23 18:11	1
2,4,5-Trichlorophenol	ND		0.050	0.0079	mg/L		08/22/23 01:00	08/22/23 18:11	1
2,4,6-Trichlorophenol	ND		0.050	0.0095	mg/L		08/22/23 01:00	08/22/23 18:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	69		55 - 105	08/22/23 01:00	08/22/23 18:11	1
2-Fluorophenol (Surr)	74		55 - 105	08/22/23 01:00	08/22/23 18:11	1
Nitrobenzene-d5 (Surr)	80		55 - 109	08/22/23 01:00	08/22/23 18:11	1
Phenol-d5 (Surr)	72		48 - 105	08/22/23 01:00	08/22/23 18:11	1
Terphenyl-d14 (Surr)	71		37 - 107	08/22/23 01:00	08/22/23 18:11	1
2,4,6-Tribromophenol (Surr)	60		32 - 115	08/22/23 01:00	08/22/23 18:11	1

Method: SW846 EPA 8081B - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0050	0.0029	mg/L		08/22/23 00:05	08/23/23 13:07	1
Endrin	ND		0.00050	0.000091	mg/L		08/22/23 00:05	08/23/23 13:07	1
gamma-BHC (Lindane)	ND		0.00050	0.00012	mg/L		08/22/23 00:05	08/23/23 13:07	1
Heptachlor	ND		0.00050	0.00018	mg/L		08/22/23 00:05	08/23/23 13:07	1
Heptachlor epoxide	ND		0.00050	0.00014	mg/L		08/22/23 00:05	08/23/23 13:07	1
Methoxychlor	ND		0.00050	0.00031	mg/L		08/22/23 00:05	08/23/23 13:07	1
Toxaphene	ND		0.040	0.020	mg/L		08/22/23 00:05	08/23/23 13:07	1

Eurofins Pittsburgh

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Former Sperry Remington-Characterization-Frac
Tank

Job ID: 180-161087-1

Client Sample ID: SSHS-IRM5A2-FRACK TANK2

Lab Sample ID: 180-161087-1

Date Collected: 08/16/23 14:00

Matrix: Water

Date Received: 08/18/23 09:12

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	113		48 - 137	08/22/23 00:05	08/23/23 13:07	1
DCB Decachlorobiphenyl (Surr)	119		48 - 137	08/22/23 00:05	08/23/23 13:07	1
Tetrachloro-m-xylene	93		56 - 137	08/22/23 00:05	08/23/23 13:07	1
Tetrachloro-m-xylene	93		56 - 137	08/22/23 00:05	08/23/23 13:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.38	0.18	ug/L		08/21/23 00:00	08/21/23 19:38	1
PCB-1221	ND		0.38	0.22	ug/L		08/21/23 00:00	08/21/23 19:38	1
PCB-1232	ND		0.38	0.20	ug/L		08/21/23 00:00	08/21/23 19:38	1
PCB-1242	ND		0.38	0.14	ug/L		08/21/23 00:00	08/21/23 19:38	1
PCB-1248	ND		0.38	0.31	ug/L		08/21/23 00:00	08/21/23 19:38	1
PCB-1254	ND		0.38	0.18	ug/L		08/21/23 00:00	08/21/23 19:38	1
PCB-1260	ND		0.38	0.15	ug/L		08/21/23 00:00	08/21/23 19:38	1
PCB-1262	ND		0.38	0.27	ug/L		08/21/23 00:00	08/21/23 19:38	1
PCB-1268	ND		0.38	0.18	ug/L		08/21/23 00:00	08/21/23 19:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	114		68 - 142	08/21/23 00:00	08/21/23 19:38	1
DCB Decachlorobiphenyl (Surr)	113		68 - 142	08/21/23 00:00	08/21/23 19:38	1
Tetrachloro-m-xylene (Surr)	100		57 - 121	08/21/23 00:00	08/21/23 19:38	1
Tetrachloro-m-xylene (Surr)	97		57 - 121	08/21/23 00:00	08/21/23 19:38	1

Method: SW846 EPA 8151A - Herbicides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.040	0.020	mg/L		08/22/23 02:00	08/28/23 07:47	20
Silvex (2,4,5-TP)	ND		0.010	0.0064	mg/L		08/22/23 02:00	08/28/23 07:47	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	101		48 - 127	08/22/23 02:00	08/28/23 07:47	20
2,4-Dichlorophenylacetic acid	94		48 - 127	08/22/23 02:00	08/28/23 07:47	20

Method: SW846 EPA 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.10	0.083	mg/L		08/21/23 12:43	08/23/23 23:57	1
Barium	ND		2.0	0.063	mg/L		08/21/23 12:43	08/23/23 23:57	1
Cadmium	ND		0.050	0.0030	mg/L		08/21/23 12:43	08/23/23 23:57	1
Chromium	ND		0.050	0.016	mg/L		08/21/23 12:43	08/23/23 23:57	1
Lead	ND		0.10	0.044	mg/L		08/21/23 12:43	08/23/23 23:57	1
Selenium	ND		0.10	0.037	mg/L		08/21/23 12:43	08/23/23 23:57	1
Silver	ND		0.050	0.0091	mg/L		08/21/23 12:43	08/23/23 23:57	1

Method: SW846 EPA 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		08/21/23 08:08	08/22/23 11:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint (SW846 EPA 1010A)	>200		1.00	1.00	Degrees F			08/26/23 12:14	1
Cyanide (SW846 EPA 9014)	0.016		0.010	0.0080	mg/L		08/25/23 11:00	08/25/23 14:46	1
Sulfide (SW846 EPA 9034)	ND		3.0	2.1	mg/L		08/22/23 12:04	08/22/23 17:23	1

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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Former Sperry Remington-Characterization-Frac
Tank

Job ID: 180-161087-1

Client Sample ID: SSHS-IRM5A2-FRACK TANK2 Lab Sample ID: 180-161087-1
Date Collected: 08/16/23 14:00 Matrix: Water
Date Received: 08/18/23 09:12

General Chemistry (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	7.9	HF	0.1	0.1	SU			08/26/23 15:14	1

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Former Sperry Remington-Characterization-Frac
Tank

Job ID: 180-161087-1

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

Lab Sample ID: LCS 180-444083/3

Matrix: Water

Analysis Batch: 444083

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0100	0.00954	J	mg/L		95	68 - 122
2-Butanone (MEK)	0.0100	0.00828	J	mg/L		83	35 - 158
Carbon tetrachloride	0.0100	0.00999	J	mg/L		100	60 - 135
Chlorobenzene	0.0100	0.0102		mg/L		102	72 - 123
Chloroform	0.0100	0.00896	J	mg/L		90	62 - 121
1,2-Dichloroethane	0.0100	0.00942	J	mg/L		94	57 - 149
1,1-Dichloroethene	0.0100	0.00989	J	mg/L		99	49 - 132
Tetrachloroethene	0.0100	0.00998	J	mg/L		100	60 - 129
Trichloroethene	0.0100	0.00973	J	mg/L		97	67 - 121
Vinyl chloride	0.0100	0.00653	J	mg/L		65	47 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		49 - 118
Dibromofluoromethane (Surr)	90		60 - 132
1,2-Dichloroethane-d4 (Surr)	89		52 - 151
Toluene-d8 (Surr)	100		53 - 124

Lab Sample ID: LB 180-444039/1-A

Matrix: Water

Analysis Batch: 444083

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.20	0.012	mg/L			08/21/23 12:33	1
2-Butanone (MEK)	ND		1.0	0.051	mg/L			08/21/23 12:33	1
Carbon tetrachloride	ND		0.20	0.018	mg/L			08/21/23 12:33	1
Chlorobenzene	ND		0.20	0.010	mg/L			08/21/23 12:33	1
Chloroform	ND		0.20	0.012	mg/L			08/21/23 12:33	1
1,2-Dichloroethane	ND		0.20	0.011	mg/L			08/21/23 12:33	1
1,1-Dichloroethene	ND		0.20	0.011	mg/L			08/21/23 12:33	1
Tetrachloroethene	ND		0.20	0.0093	mg/L			08/21/23 12:33	1
Trichloroethene	ND		0.20	0.014	mg/L			08/21/23 12:33	1
Vinyl chloride	ND		0.20	0.0081	mg/L			08/21/23 12:33	1

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		49 - 118		08/21/23 12:33	1
Dibromofluoromethane (Surr)	109		60 - 132		08/21/23 12:33	1
1,2-Dichloroethane-d4 (Surr)	100		52 - 151		08/21/23 12:33	1
Toluene-d8 (Surr)	99		53 - 124		08/21/23 12:33	1

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

Lab Sample ID: MB 180-444201/1-A

Matrix: Water

Analysis Batch: 444280

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 444201

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.050	0.0045	mg/L		08/22/23 01:00	08/22/23 13:15	1

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Former Sperry Remington-Characterization-Frac
Tank

Job ID: 180-161087-1

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

Lab Sample ID: MB 180-444201/1-A

Matrix: Water

Analysis Batch: 444280

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 444201

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.050	0.0079	mg/L		08/22/23 01:00	08/22/23 13:15	1
Hexachlorobenzene	ND		0.050	0.0055	mg/L		08/22/23 01:00	08/22/23 13:15	1
Hexachlorobutadiene	ND		0.050	0.0084	mg/L		08/22/23 01:00	08/22/23 13:15	1
Hexachloroethane	ND		0.050	0.0040	mg/L		08/22/23 01:00	08/22/23 13:15	1
2-Methylphenol	ND		0.050	0.0040	mg/L		08/22/23 01:00	08/22/23 13:15	1
Methylphenol, 3 & 4	ND		0.050	0.0079	mg/L		08/22/23 01:00	08/22/23 13:15	1
Nitrobenzene	ND		0.050	0.012	mg/L		08/22/23 01:00	08/22/23 13:15	1
Pentachlorophenol	ND		0.25	0.0075	mg/L		08/22/23 01:00	08/22/23 13:15	1
Pyridine	ND		0.10	0.0082	mg/L		08/22/23 01:00	08/22/23 13:15	1
2,4,5-Trichlorophenol	ND		0.050	0.0079	mg/L		08/22/23 01:00	08/22/23 13:15	1
2,4,6-Trichlorophenol	ND		0.050	0.0095	mg/L		08/22/23 01:00	08/22/23 13:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	64		55 - 105	08/22/23 01:00	08/22/23 13:15	1
2-Fluorophenol (Surr)	77		55 - 105	08/22/23 01:00	08/22/23 13:15	1
Nitrobenzene-d5 (Surr)	78		55 - 109	08/22/23 01:00	08/22/23 13:15	1
Phenol-d5 (Surr)	76		48 - 105	08/22/23 01:00	08/22/23 13:15	1
Terphenyl-d14 (Surr)	68		37 - 107	08/22/23 01:00	08/22/23 13:15	1
2,4,6-Tribromophenol (Surr)	67		32 - 115	08/22/23 01:00	08/22/23 13:15	1

Lab Sample ID: LCS 180-444201/2-A

Matrix: Water

Analysis Batch: 444280

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 444201

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,4-Dichlorobenzene	0.250	0.191		mg/L		77	61 - 100
2,4-Dinitrotoluene	0.250	0.178		mg/L		71	43 - 100
Hexachlorobenzene	0.250	0.160		mg/L		64	34 - 100
Hexachlorobutadiene	0.250	0.199		mg/L		80	52 - 110
Hexachloroethane	0.250	0.194		mg/L		77	56 - 100
2-Methylphenol	0.250	0.205		mg/L		82	56 - 100
Methylphenol, 3 & 4	0.500	0.423		mg/L		85	59 - 100
Nitrobenzene	0.250	0.205		mg/L		82	60 - 100
Pentachlorophenol	0.250	0.137	J	mg/L		55	14 - 112
Pyridine	0.250	0.243		mg/L		97	54 - 107
2,4,5-Trichlorophenol	0.250	0.185		mg/L		74	53 - 104
2,4,6-Trichlorophenol	0.250	0.187		mg/L		75	53 - 103

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	69		55 - 105
2-Fluorophenol (Surr)	83		55 - 105
Nitrobenzene-d5 (Surr)	82		55 - 109
Phenol-d5 (Surr)	84		48 - 105
Terphenyl-d14 (Surr)	75		37 - 107
2,4,6-Tribromophenol (Surr)	73		32 - 115

Eurofins Pittsburgh

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Former Sperry Remington-Characterization-Frac
Tank

Job ID: 180-161087-1

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

Lab Sample ID: LCSD 180-444201/3-A

Matrix: Water

Analysis Batch: 444280

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 444201

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene	0.250	0.184		mg/L		73	61 - 100	4	15
2,4-Dinitrotoluene	0.250	0.184		mg/L		73	43 - 100	3	15
Hexachlorobenzene	0.250	0.153		mg/L		61	34 - 100	4	15
Hexachlorobutadiene	0.250	0.205		mg/L		82	52 - 110	3	15
Hexachloroethane	0.250	0.192		mg/L		77	56 - 100	1	15
2-Methylphenol	0.250	0.194		mg/L		78	56 - 100	5	15
Methylphenol, 3 & 4	0.500	0.397		mg/L		79	59 - 100	6	15
Nitrobenzene	0.250	0.199		mg/L		80	60 - 100	3	15
Pentachlorophenol	0.250	0.132	J	mg/L		53	14 - 112	3	18
Pyridine	0.250	0.230		mg/L		92	54 - 107	5	15
2,4,5-Trichlorophenol	0.250	0.186		mg/L		74	53 - 104	1	15
2,4,6-Trichlorophenol	0.250	0.180		mg/L		72	53 - 103	4	15

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2-Fluorobiphenyl	71		55 - 105
2-Fluorophenol (Surr)	81		55 - 105
Nitrobenzene-d5 (Surr)	84		55 - 109
Phenol-d5 (Surr)	79		48 - 105
Terphenyl-d14 (Surr)	73		37 - 107
2,4,6-Tribromophenol (Surr)	71		32 - 115

Lab Sample ID: LB 180-444062/1-E

Matrix: Water

Analysis Batch: 444280

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 444201

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.050	0.0045	mg/L		08/22/23 01:00	08/22/23 15:17	1
2,4-Dinitrotoluene	ND		0.050	0.0079	mg/L		08/22/23 01:00	08/22/23 15:17	1
Hexachlorobenzene	ND		0.050	0.0055	mg/L		08/22/23 01:00	08/22/23 15:17	1
Hexachlorobutadiene	ND		0.050	0.0084	mg/L		08/22/23 01:00	08/22/23 15:17	1
Hexachloroethane	ND		0.050	0.0040	mg/L		08/22/23 01:00	08/22/23 15:17	1
2-Methylphenol	ND		0.050	0.0040	mg/L		08/22/23 01:00	08/22/23 15:17	1
Methylphenol, 3 & 4	ND		0.050	0.0079	mg/L		08/22/23 01:00	08/22/23 15:17	1
Nitrobenzene	ND		0.050	0.012	mg/L		08/22/23 01:00	08/22/23 15:17	1
Pentachlorophenol	ND		0.25	0.0075	mg/L		08/22/23 01:00	08/22/23 15:17	1
Pyridine	ND		0.10	0.0082	mg/L		08/22/23 01:00	08/22/23 15:17	1
2,4,5-Trichlorophenol	ND		0.050	0.0079	mg/L		08/22/23 01:00	08/22/23 15:17	1
2,4,6-Trichlorophenol	ND		0.050	0.0095	mg/L		08/22/23 01:00	08/22/23 15:17	1

Surrogate	LB %Recovery	LB Qualifier	LB Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	70		55 - 105	08/22/23 01:00	08/22/23 15:17	1
2-Fluorophenol (Surr)	77		55 - 105	08/22/23 01:00	08/22/23 15:17	1
Nitrobenzene-d5 (Surr)	80		55 - 109	08/22/23 01:00	08/22/23 15:17	1
Phenol-d5 (Surr)	77		48 - 105	08/22/23 01:00	08/22/23 15:17	1
Terphenyl-d14 (Surr)	71		37 - 107	08/22/23 01:00	08/22/23 15:17	1
2,4,6-Tribromophenol (Surr)	69		32 - 115	08/22/23 01:00	08/22/23 15:17	1

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Former Sperry Remington-Characterization-Frac
Tank

Job ID: 180-161087-1

Method: EPA 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 180-444200/1-A

Matrix: Water

Analysis Batch: 444331

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 444200

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0050	0.0029	mg/L		08/22/23 00:05	08/23/23 12:04	1
Endrin	ND		0.00050	0.000091	mg/L		08/22/23 00:05	08/23/23 12:04	1
gamma-BHC (Lindane)	ND		0.00050	0.00012	mg/L		08/22/23 00:05	08/23/23 12:04	1
Heptachlor	ND		0.00050	0.00018	mg/L		08/22/23 00:05	08/23/23 12:04	1
Heptachlor epoxide	ND		0.00050	0.00014	mg/L		08/22/23 00:05	08/23/23 12:04	1
Methoxychlor	ND		0.00050	0.00031	mg/L		08/22/23 00:05	08/23/23 12:04	1
Toxaphene	ND		0.040	0.020	mg/L		08/22/23 00:05	08/23/23 12:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	118		48 - 137	08/22/23 00:05	08/23/23 12:04	1
DCB Decachlorobiphenyl (Surr)	126		48 - 137	08/22/23 00:05	08/23/23 12:04	1
Tetrachloro-m-xylene	97		56 - 137	08/22/23 00:05	08/23/23 12:04	1
Tetrachloro-m-xylene	98		56 - 137	08/22/23 00:05	08/23/23 12:04	1

Lab Sample ID: LCS 180-444200/2-A

Matrix: Water

Analysis Batch: 444331

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 444200

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Endrin	0.0100	0.00992		mg/L		99	72 - 115
gamma-BHC (Lindane)	0.0100	0.00764		mg/L		76	67 - 120
Heptachlor	0.0100	0.00829		mg/L		83	71 - 125
Heptachlor epoxide	0.0100	0.00900		mg/L		90	67 - 123
Methoxychlor	0.0100	0.00845		mg/L		84	59 - 109

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	114		48 - 137
DCB Decachlorobiphenyl (Surr)	121		48 - 137
Tetrachloro-m-xylene	94		56 - 137
Tetrachloro-m-xylene	96		56 - 137

Lab Sample ID: LCSD 180-444200/3-A

Matrix: Water

Analysis Batch: 444331

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 444200

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Endrin	0.0100	0.00973		mg/L		97	72 - 115	2	15
gamma-BHC (Lindane)	0.0100	0.00780		mg/L		78	67 - 120	2	18
Heptachlor	0.0100	0.00800		mg/L		80	71 - 125	4	16
Heptachlor epoxide	0.0100	0.00877		mg/L		88	67 - 123	3	15
Methoxychlor	0.0100	0.00824		mg/L		82	59 - 109	3	15

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	111		48 - 137
DCB Decachlorobiphenyl (Surr)	118		48 - 137
Tetrachloro-m-xylene	92		56 - 137

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Former Sperry Remington-Characterization-Frac
Tank

Job ID: 180-161087-1

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

Lab Sample ID: LCSD 180-444200/3-A

Matrix: Water

Analysis Batch: 444331

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 444200

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
Tetrachloro-m-xylene	93		56 - 137

Lab Sample ID: LB 180-444062/1-D

Matrix: Water

Analysis Batch: 444331

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 444200

Analyte	LB	LB							
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0050	0.0029	mg/L		08/22/23 00:05	08/23/23 12:51	1
Endrin	ND		0.00050	0.000091	mg/L		08/22/23 00:05	08/23/23 12:51	1
gamma-BHC (Lindane)	ND		0.00050	0.00012	mg/L		08/22/23 00:05	08/23/23 12:51	1
Heptachlor	ND		0.00050	0.00018	mg/L		08/22/23 00:05	08/23/23 12:51	1
Heptachlor epoxide	ND		0.00050	0.00014	mg/L		08/22/23 00:05	08/23/23 12:51	1
Methoxychlor	ND		0.00050	0.00031	mg/L		08/22/23 00:05	08/23/23 12:51	1
Toxaphene	ND		0.040	0.020	mg/L		08/22/23 00:05	08/23/23 12:51	1

	LB	LB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
DCB Decachlorobiphenyl (Surr)	115		48 - 137	08/22/23 00:05	08/23/23 12:51	1			
DCB Decachlorobiphenyl (Surr)	119		48 - 137	08/22/23 00:05	08/23/23 12:51	1			
Tetrachloro-m-xylene	91		56 - 137	08/22/23 00:05	08/23/23 12:51	1			
Tetrachloro-m-xylene	93		56 - 137	08/22/23 00:05	08/23/23 12:51	1			

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

Lab Sample ID: MB 180-444049/1-A

Matrix: Water

Analysis Batch: 444055

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 444049

Analyte	MB	MB							
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.40	0.19	ug/L		08/21/23 00:00	08/21/23 19:01	1
PCB-1221	ND		0.40	0.23	ug/L		08/21/23 00:00	08/21/23 19:01	1
PCB-1232	ND		0.40	0.21	ug/L		08/21/23 00:00	08/21/23 19:01	1
PCB-1242	ND		0.40	0.14	ug/L		08/21/23 00:00	08/21/23 19:01	1
PCB-1248	ND		0.40	0.32	ug/L		08/21/23 00:00	08/21/23 19:01	1
PCB-1254	ND		0.40	0.18	ug/L		08/21/23 00:00	08/21/23 19:01	1
PCB-1260	ND		0.40	0.16	ug/L		08/21/23 00:00	08/21/23 19:01	1
PCB-1262	ND		0.40	0.28	ug/L		08/21/23 00:00	08/21/23 19:01	1
PCB-1268	ND		0.40	0.18	ug/L		08/21/23 00:00	08/21/23 19:01	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
DCB Decachlorobiphenyl (Surr)	120		68 - 142	08/21/23 00:00	08/21/23 19:01	1			
DCB Decachlorobiphenyl (Surr)	115		68 - 142	08/21/23 00:00	08/21/23 19:01	1			
Tetrachloro-m-xylene (Surr)	96		57 - 121	08/21/23 00:00	08/21/23 19:01	1			
Tetrachloro-m-xylene (Surr)	97		57 - 121	08/21/23 00:00	08/21/23 19:01	1			

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Former Sperry Remington-Characterization-Frac
Tank

Job ID: 180-161087-1

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

Lab Sample ID: LCS 180-444049/4-A

Matrix: Water

Analysis Batch: 444055

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 444049

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	40.0	31.3		ug/L		78	46 - 118
PCB-1260	40.0	28.7		ug/L		72	56 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	114		68 - 142
DCB Decachlorobiphenyl (Surr)	110		68 - 142
Tetrachloro-m-xylene (Surr)	92		57 - 121
Tetrachloro-m-xylene (Surr)	91		57 - 121

Lab Sample ID: LCSD 180-444049/5-A

Matrix: Water

Analysis Batch: 444055

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 444049

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	40.0	31.6		ug/L		79	46 - 118	1	15
PCB-1260	40.0	29.3		ug/L		73	56 - 115	2	17

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	114		68 - 142
DCB Decachlorobiphenyl (Surr)	108		68 - 142
Tetrachloro-m-xylene (Surr)	93		57 - 121
Tetrachloro-m-xylene (Surr)	92		57 - 121

Method: EPA 8151A - Herbicides (GC)

Lab Sample ID: MB 180-444202/1-A

Matrix: Water

Analysis Batch: 444767

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 444202

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.040	0.020	mg/L		08/22/23 02:00	08/28/23 07:08	20
Silvex (2,4,5-TP)	ND		0.010	0.0064	mg/L		08/22/23 02:00	08/28/23 07:08	20

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	104		48 - 127	08/22/23 02:00	08/28/23 07:08	20
2,4-Dichlorophenylacetic acid	100		48 - 127	08/22/23 02:00	08/28/23 07:08	20

Lab Sample ID: LCS 180-444202/2-A

Matrix: Water

Analysis Batch: 444767

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 444202

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-D	0.200	0.201		mg/L		100	23 - 139
Silvex (2,4,5-TP)	0.0500	0.0541		mg/L		108	33 - 140

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Former Sperry Remington-Characterization-Frac
Tank

Job ID: 180-161087-1

Method: EPA 8151A - Herbicides (GC) (Continued)

Lab Sample ID: LCS 180-444202/2-A

Matrix: Water

Analysis Batch: 444767

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 444202

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4-Dichlorophenylacetic acid	103		48 - 127
2,4-Dichlorophenylacetic acid	93		48 - 127

Lab Sample ID: LCSD 180-444202/3-A

Matrix: Water

Analysis Batch: 444767

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 444202

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4-D	0.200	0.205		mg/L		102	23 - 139	2	35
Silvex (2,4,5-TP)	0.0500	0.0548		mg/L		110	33 - 140	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4-Dichlorophenylacetic acid	101		48 - 127
2,4-Dichlorophenylacetic acid	96		48 - 127

Lab Sample ID: LB 180-444062/1-F

Matrix: Water

Analysis Batch: 444767

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 444202

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.040	0.020	mg/L		08/22/23 02:00	08/28/23 09:04	20
Silvex (2,4,5-TP)	ND		0.010	0.0064	mg/L		08/22/23 02:00	08/28/23 09:04	20

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	106		48 - 127	08/22/23 02:00	08/28/23 09:04	20
2,4-Dichlorophenylacetic acid	103		48 - 127	08/22/23 02:00	08/28/23 09:04	20

Method: EPA 6010C - Metals (ICP)

Lab Sample ID: MB 180-444124/1-A

Matrix: Water

Analysis Batch: 444528

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 444124

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.010	0.0083	mg/L		08/21/23 12:43	08/23/23 22:17	1
Barium	ND		0.20	0.0063	mg/L		08/21/23 12:43	08/23/23 22:17	1
Cadmium	ND		0.0050	0.00030	mg/L		08/21/23 12:43	08/23/23 22:17	1
Chromium	ND		0.0050	0.0016	mg/L		08/21/23 12:43	08/23/23 22:17	1
Lead	ND		0.010	0.0044	mg/L		08/21/23 12:43	08/23/23 22:17	1
Selenium	ND		0.010	0.0037	mg/L		08/21/23 12:43	08/23/23 22:17	1
Silver	ND		0.0050	0.00091	mg/L		08/21/23 12:43	08/23/23 22:17	1

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Former Sperry Remington-Characterization-Frac Tank

Job ID: 180-161087-1

Method: EPA 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 180-444124/2-A

Matrix: Water

Analysis Batch: 444528

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 444124

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1.00	1.06		mg/L		106	80 - 120
Barium	1.00	1.05		mg/L		105	80 - 120
Cadmium	0.500	0.512		mg/L		102	80 - 120
Chromium	0.500	0.527		mg/L		105	80 - 120
Lead	0.500	0.519		mg/L		104	80 - 120
Selenium	1.00	1.05		mg/L		105	80 - 120
Silver	0.250	0.260		mg/L		104	80 - 120

Lab Sample ID: LCSD 180-444124/3-A

Matrix: Water

Analysis Batch: 444528

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 444124

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	1.00	1.05		mg/L		105	80 - 120	1	20
Barium	1.00	1.04		mg/L		104	80 - 120	1	20
Cadmium	0.500	0.506		mg/L		101	80 - 120	1	20
Chromium	0.500	0.520		mg/L		104	80 - 120	1	20
Lead	0.500	0.515		mg/L		103	80 - 120	1	20
Selenium	1.00	1.05		mg/L		105	80 - 120	0	20
Silver	0.250	0.255		mg/L		102	80 - 120	2	20

Lab Sample ID: LB 180-444062/1-C

Matrix: Water

Analysis Batch: 444528

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 444124

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.10	0.083	mg/L		08/21/23 12:43	08/23/23 23:41	1
Barium	ND		2.0	0.063	mg/L		08/21/23 12:43	08/23/23 23:41	1
Cadmium	ND		0.050	0.0030	mg/L		08/21/23 12:43	08/23/23 23:41	1
Chromium	ND		0.050	0.016	mg/L		08/21/23 12:43	08/23/23 23:41	1
Lead	ND		0.10	0.044	mg/L		08/21/23 12:43	08/23/23 23:41	1
Selenium	ND		0.10	0.037	mg/L		08/21/23 12:43	08/23/23 23:41	1
Silver	ND		0.050	0.0091	mg/L		08/21/23 12:43	08/23/23 23:41	1

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-444099/1-A

Matrix: Water

Analysis Batch: 444283

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 444099

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		08/21/23 08:08	08/22/23 10:55	1

Lab Sample ID: LCS 180-444099/2-A

Matrix: Water

Analysis Batch: 444283

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 444099

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00207		mg/L		83	80 - 120

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Former Sperry Remington-Characterization-Frac Tank

Job ID: 180-161087-1

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: LB 180-444062/1-B
Matrix: Water
Analysis Batch: 444283

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 444099

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		08/21/23 08:08	08/22/23 11:10	1

Method: EPA 1010A - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 180-444869/1
Matrix: Water
Analysis Batch: 444869

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Flashpoint	81.0	82.30		Degrees F		102	96 - 103

Method: EPA 9014 - Cyanide

Lab Sample ID: MB 180-444663/4-A
Matrix: Water
Analysis Batch: 444698

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 444663

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide	ND		0.010	0.0080	mg/L		08/25/23 11:00	08/25/23 14:12	1

Lab Sample ID: HLCS 180-444663/2-A
Matrix: Water
Analysis Batch: 444698

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 444663

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide	0.250	0.240		mg/L		96	90 - 110

Lab Sample ID: LCS 180-444663/3-A
Matrix: Water
Analysis Batch: 444698

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 444663

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide	0.200	0.198		mg/L		99	85 - 115

Lab Sample ID: LLCS 180-444663/1-A
Matrix: Water
Analysis Batch: 444698

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 444663

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide	0.0500	0.0499		mg/L		100	90 - 110

Method: EPA 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 180-444275/2-A
Matrix: Water
Analysis Batch: 444303

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 444275

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		3.0	2.1	mg/L		08/22/23 12:04	08/22/23 17:18	1

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Former Sperry Remington-Characterization-Frac
Tank

Job ID: 180-161087-1

Method: EPA 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: LCS 180-444275/1-A

Matrix: Water

Analysis Batch: 444303

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 444275

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	17.2	14.9		mg/L		87	85 - 115

Method: EPA 9040C - pH

Lab Sample ID: LCS 180-444809/1

Matrix: Water

Analysis Batch: 444809

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		SU		100	99 - 101

QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: Former Sperry Remington-Characterization-Frac
Tank

Job ID: 180-161087-1

GC/MS VOA

Leach Batch: 444039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-161087-1	SSHS-IRM5A2-FRACK TANK2	TCLP	Water	EPA 1311	
LB 180-444039/1-A	Method Blank	TCLP	Water	EPA 1311	

Analysis Batch: 444083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-161087-1	SSHS-IRM5A2-FRACK TANK2	TCLP	Water	EPA 8260C	444039
LB 180-444039/1-A	Method Blank	TCLP	Water	EPA 8260C	444039
LCS 180-444083/3	Lab Control Sample	Total/NA	Water	EPA 8260C	

GC/MS Semi VOA

Leach Batch: 444062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-161087-1	SSHS-IRM5A2-FRACK TANK2	TCLP	Water	EPA 1311	
LB 180-444062/1-E	Method Blank	TCLP	Water	EPA 1311	

Prep Batch: 444201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-161087-1	SSHS-IRM5A2-FRACK TANK2	TCLP	Water	3510C	444062
LB 180-444062/1-E	Method Blank	TCLP	Water	3510C	444062
MB 180-444201/1-A	Method Blank	Total/NA	Water	3510C	
LCS 180-444201/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 180-444201/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 444280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-161087-1	SSHS-IRM5A2-FRACK TANK2	TCLP	Water	EPA 8270D	444201
LB 180-444062/1-E	Method Blank	TCLP	Water	EPA 8270D	444201
MB 180-444201/1-A	Method Blank	Total/NA	Water	EPA 8270D	444201
LCS 180-444201/2-A	Lab Control Sample	Total/NA	Water	EPA 8270D	444201
LCSD 180-444201/3-A	Lab Control Sample Dup	Total/NA	Water	EPA 8270D	444201

GC Semi VOA

Prep Batch: 444049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-161087-1	SSHS-IRM5A2-FRACK TANK2	Total/NA	Water	3510C	
MB 180-444049/1-A	Method Blank	Total/NA	Water	3510C	
LCS 180-444049/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 180-444049/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 444055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-161087-1	SSHS-IRM5A2-FRACK TANK2	Total/NA	Water	EPA 8082A	444049
MB 180-444049/1-A	Method Blank	Total/NA	Water	EPA 8082A	444049
LCS 180-444049/4-A	Lab Control Sample	Total/NA	Water	EPA 8082A	444049
LCSD 180-444049/5-A	Lab Control Sample Dup	Total/NA	Water	EPA 8082A	444049

Leach Batch: 444062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-161087-1	SSHS-IRM5A2-FRACK TANK2	TCLP	Water	EPA 1311	

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QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: Former Sperry Remington-Characterization-Frac
Tank

Job ID: 180-161087-1

GC Semi VOA (Continued)

Leach Batch: 444062 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 180-444062/1-D	Method Blank	TCLP	Water	EPA 1311	
LB 180-444062/1-F	Method Blank	TCLP	Water	EPA 1311	

Prep Batch: 444200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-161087-1	SSHS-IRM5A2-FRACK TANK2	TCLP	Water	3510C	444062
LB 180-444062/1-D	Method Blank	TCLP	Water	3510C	444062
MB 180-444200/1-A	Method Blank	Total/NA	Water	3510C	
LCS 180-444200/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 180-444200/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 444202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-161087-1	SSHS-IRM5A2-FRACK TANK2	TCLP	Water	8151A	444062
LB 180-444062/1-F	Method Blank	TCLP	Water	8151A	444062
MB 180-444202/1-A	Method Blank	Total/NA	Water	8151A	
LCS 180-444202/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 180-444202/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	

Analysis Batch: 444331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-161087-1	SSHS-IRM5A2-FRACK TANK2	TCLP	Water	EPA 8081B	444200
LB 180-444062/1-D	Method Blank	TCLP	Water	EPA 8081B	444200
MB 180-444200/1-A	Method Blank	Total/NA	Water	EPA 8081B	444200
LCS 180-444200/2-A	Lab Control Sample	Total/NA	Water	EPA 8081B	444200
LCSD 180-444200/3-A	Lab Control Sample Dup	Total/NA	Water	EPA 8081B	444200

Analysis Batch: 444767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-161087-1	SSHS-IRM5A2-FRACK TANK2	TCLP	Water	EPA 8151A	444202
LB 180-444062/1-F	Method Blank	TCLP	Water	EPA 8151A	444202
MB 180-444202/1-A	Method Blank	Total/NA	Water	EPA 8151A	444202
LCS 180-444202/2-A	Lab Control Sample	Total/NA	Water	EPA 8151A	444202
LCSD 180-444202/3-A	Lab Control Sample Dup	Total/NA	Water	EPA 8151A	444202

Metals

Leach Batch: 444062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-161087-1	SSHS-IRM5A2-FRACK TANK2	TCLP	Water	EPA 1311	
LB 180-444062/1-B	Method Blank	TCLP	Water	EPA 1311	
LB 180-444062/1-C	Method Blank	TCLP	Water	EPA 1311	

Prep Batch: 444099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-161087-1	SSHS-IRM5A2-FRACK TANK2	TCLP	Water	7470A	444062
LB 180-444062/1-B	Method Blank	TCLP	Water	7470A	444062
MB 180-444099/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-444099/2-A	Lab Control Sample	Total/NA	Water	7470A	

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QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: Former Sperry Remington-Characterization-Frac
Tank

Job ID: 180-161087-1

Metals

Prep Batch: 444124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-161087-1	SSHS-IRM5A2-FRACK TANK2	TCLP	Water	3010A	444062
LB 180-444062/1-C	Method Blank	TCLP	Water	3010A	444062
MB 180-444124/1-A	Method Blank	Total/NA	Water	3010A	
LCS 180-444124/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 180-444124/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	

Analysis Batch: 444283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-161087-1	SSHS-IRM5A2-FRACK TANK2	TCLP	Water	EPA 7470A	444099
LB 180-444062/1-B	Method Blank	TCLP	Water	EPA 7470A	444099
MB 180-444099/1-A	Method Blank	Total/NA	Water	EPA 7470A	444099
LCS 180-444099/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	444099

Analysis Batch: 444528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-161087-1	SSHS-IRM5A2-FRACK TANK2	TCLP	Water	EPA 6010C	444124
LB 180-444062/1-C	Method Blank	TCLP	Water	EPA 6010C	444124
MB 180-444124/1-A	Method Blank	Total/NA	Water	EPA 6010C	444124
LCS 180-444124/2-A	Lab Control Sample	Total/NA	Water	EPA 6010C	444124
LCSD 180-444124/3-A	Lab Control Sample Dup	Total/NA	Water	EPA 6010C	444124

General Chemistry

Prep Batch: 444275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-161087-1	SSHS-IRM5A2-FRACK TANK2	Total/NA	Water	9030B	
MB 180-444275/2-A	Method Blank	Total/NA	Water	9030B	
LCS 180-444275/1-A	Lab Control Sample	Total/NA	Water	9030B	

Analysis Batch: 444303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-161087-1	SSHS-IRM5A2-FRACK TANK2	Total/NA	Water	EPA 9034	444275
MB 180-444275/2-A	Method Blank	Total/NA	Water	EPA 9034	444275
LCS 180-444275/1-A	Lab Control Sample	Total/NA	Water	EPA 9034	444275

Prep Batch: 444663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-161087-1	SSHS-IRM5A2-FRACK TANK2	Total/NA	Water	9010C	
MB 180-444663/4-A	Method Blank	Total/NA	Water	9010C	
HLCS 180-444663/2-A	Lab Control Sample	Total/NA	Water	9010C	
LCS 180-444663/3-A	Lab Control Sample	Total/NA	Water	9010C	
LLCS 180-444663/1-A	Lab Control Sample	Total/NA	Water	9010C	

Analysis Batch: 444698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-161087-1	SSHS-IRM5A2-FRACK TANK2	Total/NA	Water	EPA 9014	444663
MB 180-444663/4-A	Method Blank	Total/NA	Water	EPA 9014	444663
HLCS 180-444663/2-A	Lab Control Sample	Total/NA	Water	EPA 9014	444663
LCS 180-444663/3-A	Lab Control Sample	Total/NA	Water	EPA 9014	444663
LLCS 180-444663/1-A	Lab Control Sample	Total/NA	Water	EPA 9014	444663

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QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: Former Sperry Remington-Characterization-Frac
Tank

Job ID: 180-161087-1

General Chemistry

Analysis Batch: 444809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-161087-1	SSHS-IRM5A2-FRACK TANK2	Total/NA	Water	EPA 9040C	
LCS 180-444809/1	Lab Control Sample	Total/NA	Water	EPA 9040C	

Analysis Batch: 444869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-161087-1	SSHS-IRM5A2-FRACK TANK2	Total/NA	Water	EPA 1010A	
LCS 180-444869/1	Lab Control Sample	Total/NA	Water	EPA 1010A	

Client Information			Sampler Z MILLER		Lab PM: Dunlap, David A		Carrier Tracking No(s) 180-45857-9656 1		COC No 180-45857-9656 1							
Client Contact: Mr. Aron Krasnopoler			Phone: 708-248-3888		E-Mail: david.dunlap@testamencalinc.com		Page: Page 1 of 1		Job #							
Company: Geosyntec Consultants, Inc.			Analysis Requested													
Address: 10211 Wincopin Circle 4th Floor City: Columbia State, Zip: MD, 21044 Phone: 410-381-4333 Email: akkrasnopoler@geosyntec.com Project Name: Former Sperry Remington Site Site:			Due Date Requested: TAT Requested (days): 7 day		PO #: MN08321 WO #: Project #: 18013464 SSOW#:		Field Filtered Sample (Yes or No)					Perform MS/MSD (Yes or No)				
Sample Identification SSHS-IRMSA2-FrackTank2			Sample Date 8/16/23		Sample Time 1400		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=extract/sol, BT=Tissue, A=Air)		Preservation Code:		Total Number of Containers		Special Instructions/Note:	
			8/16/23		1400		G		S		17		17		17	
Relinquished by Relinquished by Relinquished by			Date: 8/17/23		Time: 14:30		Company Geosyntec		Received by Received by Received by		Date/Time Date/Time Date/Time		Method of Shipment		Date/Time Date/Time Date/Time	
Relinquished by Relinquished by Relinquished by			Date: 8/17/23		Time: 14:30		Company Geosyntec		Received by Received by Received by		Date/Time Date/Time Date/Time		Method of Shipment		Date/Time Date/Time Date/Time	
Relinquished by Relinquished by Relinquished by			Date: 8/17/23		Time: 14:30		Company Geosyntec		Received by Received by Received by		Date/Time Date/Time Date/Time		Method of Shipment		Date/Time Date/Time Date/Time	
Relinquished by Relinquished by Relinquished by			Date: 8/17/23		Time: 14:30		Company Geosyntec		Received by Received by Received by		Date/Time Date/Time Date/Time		Method of Shipment		Date/Time Date/Time Date/Time	
Relinquished by Relinquished by Relinquished by			Date: 8/17/23		Time: 14:30		Company Geosyntec		Received by Received by Received by		Date/Time Date/Time Date/Time		Method of Shipment		Date/Time Date/Time Date/Time	
Relinquished by Relinquished by Relinquished by			Date: 8/17/23		Time: 14:30		Company Geosyntec		Received by Received by Received by		Date/Time Date/Time Date/Time		Method of Shipment		Date/Time Date/Time Date/Time	
Relinquished by Relinquished by Relinquished by			Date: 8/17/23		Time: 14:30		Company Geosyntec		Received by Received by Received by		Date/Time Date/Time Date/Time		Method of Shipment		Date/Time Date/Time Date/Time	
Relinquished by Relinquished by Relinquished by			Date: 8/17/23		Time: 14:30		Company Geosyntec		Received by Received by Received by		Date/Time Date/Time Date/Time		Method of Shipment		Date/Time Date/Time Date/Time	
Relinquished by Relinquished by Relinquished by			Date: 8/17/23		Time: 14:30		Company Geosyntec		Received by Received by Received by		Date/Time Date/Time Date/Time		Method of Shipment		Date/Time Date/Time Date/Time	
Relinquished by Relinquished by Relinquished by			Date: 8/17/23		Time: 14:30		Company Geosyntec		Received by Received by Received by		Date/Time Date/Time Date/Time		Method of Shipment		Date/Time Date/Time Date/Time	
Relinquished by Relinquished by Relinquished by			Date: 8/17/23		Time: 14:30		Company Geosyntec		Received by Received by Received by		Date/Time Date/Time Date/Time		Method of Shipment		Date/Time Date/Time Date/Time	
Relinquished by Relinquished by Relinquished by			Date: 8/17/23		Time: 14:30		Company Geosyntec		Received by Received by Received by		Date/Time Date/Time Date/Time		Method of Shipment		Date/Time Date/Time Date/Time	
Relinquished by Relinquished by Relinquished by			Date: 8/17/23		Time: 14:30		Company Geosyntec		Received by Received by Received by		Date/Time Date/Time Date/Time		Method of Shipment		Date/Time Date/Time Date/Time	
Relinquished by Relinquished by Relinquished by			Date: 8/17/23		Time: 14:30		Company Geosyntec		Received by Received by Received by		Date/Time Date/Time Date/Time		Method of Shipment		Date/Time Date/Time Date/Time	
Relinquished by Relinquished by Relinquished by			Date: 8/17/23		Time: 14:30											

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 180-161087-1

Login Number: 161087

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
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.	True	
Cooler Temperature is acceptable.	True	
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 containers received and the COC.	False	Received Trip Blank(s) not listed on COC.
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	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	False	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	