

ANALYTICAL REPORT

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Laboratory Job ID: 460-195223-1

Client Project/Site: 60584654, Penn Yan Former MGP Phase 2

For:

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11/4/2019 4:16:46 PM

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-195223-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC/MS VOA TICs

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

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
A	The tentatively identified compound is a suspected aldol-condensation product.
J	Indicates an Estimated Value for TICs
T	Result is a tentatively identified compound (TIC) and an estimated value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Case Narrative

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-195223-1

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Laboratory: Eurofins TestAmerica, Edison

Narrative

Job Narrative 460-195223-1

Comments

No additional comments.

Receipt

The samples were received on 10/30/2019 4:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.8° C.

GC/MS VOA

Method 8260C: The laboratory control sample duplicate (LCSD) for analytical batch 460-651827 recovered outside control limits for the following analyte: Acetone. This analyte was biased high in the LCSD, the data have been flagged and reported.

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

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 460-651877 was outside the method criteria for the following analyte(s): Pentachlorophenol. 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(s) is considered estimated.

Method 8270D: The surrogate recovery for the blank and LCS associated with preparation batch 460-651701 and analytical batch 460-651877 was outside the upper control limits.

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

Organic Prep

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

VOA Prep

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

Detection Summary

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-195223-1

Client Sample ID: PWEXSW03189

Lab Sample ID: 460-195223-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	23	J	390	12	ug/Kg	1	☼	8270D	Total/NA
Diethyl phthalate	24	J F1	390	5.7	ug/Kg	1	☼	8270D	Total/NA

Client Sample ID: PWEXBM04190

Lab Sample ID: 460-195223-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	13	*	6.8	6.5	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PWEXBM11191

Lab Sample ID: 460-195223-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	23	*	6.3	6.0	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PWEXBM11192

Lab Sample ID: 460-195223-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	11	*	6.5	6.2	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PWEXBM05193

Lab Sample ID: 460-195223-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.7	*	6.4	6.1	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PWEXBM05194

Lab Sample ID: 460-195223-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	25	*	6.5	6.2	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-195223-1

Client Sample ID: PWEXSW03189

Lab Sample ID: 460-195223-1

Date Collected: 10/29/19 09:20

Matrix: Solid

Date Received: 10/30/19 16:00

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.1	0.48	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
Bromomethane	ND		1.1	0.53	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
Vinyl chloride	ND		1.1	0.61	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
Chloroethane	ND		1.1	0.58	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
Methylene Chloride	ND		1.1	0.52	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
Acetone	ND	*	6.7	6.4	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
Carbon disulfide	ND		1.1	0.30	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
Trichlorofluoromethane	ND		1.1	0.45	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
1,1-Dichloroethene	ND		1.1	0.25	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
1,1-Dichloroethane	ND		1.1	0.23	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
trans-1,2-Dichloroethene	ND		1.1	0.27	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
cis-1,2-Dichloroethene	ND		1.1	0.17	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
Chloroform	ND		1.1	0.36	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
1,2-Dichloroethane	ND		1.1	0.33	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
2-Butanone (MEK)	ND		5.6	3.0	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
1,1,1-Trichloroethane	ND		1.1	0.26	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
Carbon tetrachloride	ND		1.1	0.43	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
Bromodichloromethane	ND		1.1	0.29	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
1,2-Dichloropropane	ND		1.1	0.47	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
cis-1,3-Dichloropropene	ND		1.1	0.30	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
Trichloroethene	ND		1.1	0.16	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
Dibromochloromethane	ND		1.1	0.22	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
1,1,2-Trichloroethane	ND		1.1	0.20	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
Benzene	ND		1.1	0.29	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
trans-1,3-Dichloropropene	ND		1.1	0.30	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
Bromoform	ND		1.1	0.47	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
4-Methyl-2-pentanone (MIBK)	ND		5.6	1.7	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
2-Hexanone	ND		5.6	1.9	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
Tetrachloroethene	ND		1.1	0.16	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
1,1,2,2-Tetrachloroethane	ND		1.1	0.24	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
Toluene	ND		1.1	0.26	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
Chlorobenzene	ND		1.1	0.20	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
Ethylbenzene	ND		1.1	0.22	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
Styrene	ND		1.1	0.31	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
Xylenes, Total	ND		2.2	0.19	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.1	0.34	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
Methyl tert-butyl ether	ND		1.1	0.14	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
Cyclohexane	ND		1.1	0.25	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
1,2-Dibromoethane	ND		1.1	0.20	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
1,3-Dichlorobenzene	ND		1.1	0.18	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
1,4-Dichlorobenzene	ND		1.1	0.25	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
1,2-Dichlorobenzene	ND		1.1	0.16	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
Dichlorodifluoromethane	ND		1.1	0.38	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
1,2,4-Trichlorobenzene	ND		1.1	0.40	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
1,2-Dibromo-3-Chloropropane	ND		1.1	0.51	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
Isopropylbenzene	ND		1.1	0.14	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
Methyl acetate	ND		5.6	4.8	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1
Methylcyclohexane	ND		1.1	0.56	ug/Kg	☼	10/31/19 13:10	11/01/19 02:59	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-195223-1

Client Sample ID: PWEXSW03189

Lab Sample ID: 460-195223-1

Date Collected: 10/29/19 09:20

Matrix: Solid

Date Received: 10/30/19 16:00

Percent Solids: 84.7

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Tentatively Identified Compound</i>	<i>None</i>		<i>ug/Kg</i>	<i>☼</i>			<i>10/31/19 13:10</i>	<i>11/01/19 02:59</i>	<i>1</i>
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		78 - 135				10/31/19 13:10	11/01/19 02:59	1
Toluene-d8 (Surr)	97		73 - 121				10/31/19 13:10	11/01/19 02:59	1
4-Bromofluorobenzene	95		67 - 126				10/31/19 13:10	11/01/19 02:59	1
Dibromofluoromethane (Surr)	115		61 - 149				10/31/19 13:10	11/01/19 02:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		390	40	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
2,4,6-Trichlorophenol	ND	F1	160	50	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
2,4-Dichlorophenol	ND		160	25	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
2,4-Dimethylphenol	ND	F1	390	17	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
2,4-Dinitrophenol	ND	F1	310	190	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
2,4-Dinitrotoluene	ND		79	42	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
2,6-Dinitrotoluene	ND		79	28	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
2-Chloronaphthalene	ND		390	18	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
2-Chlorophenol	ND		390	14	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
2-Methylnaphthalene	ND	F1	390	11	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
2-Methylphenol	ND		390	15	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
2-Nitroaniline	ND		390	15	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
2-Nitrophenol	ND	F1	390	39	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
3,3'-Dichlorobenzidine	ND		160	59	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
3-Nitroaniline	ND		390	44	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
4,6-Dinitro-2-methylphenol	ND	F1	310	63	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
4-Bromophenyl phenyl ether	ND		390	15	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
4-Chloro-3-methylphenol	ND		390	22	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
4-Chloroaniline	ND		390	27	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
4-Chlorophenyl phenyl ether	ND	F1	390	14	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
4-Methylphenol	ND		390	24	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
4-Nitroaniline	ND		390	45	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
4-Nitrophenol	ND		790	64	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
Acenaphthene	ND	F1	390	28	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
Acenaphthylene	ND	F1	390	4.0	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
Acetophenone	ND		390	19	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
Anthracene	ND		390	12	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
Atrazine	ND	F1	160	9.9	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
Benzaldehyde	ND		390	17	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
Benzo[a]anthracene	ND	F1	39	14	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
Benzo[a]pyrene	ND	F1	39	10	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
Benzo[b]fluoranthene	ND		39	10	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
Benzo[g,h,i]perylene	23	J	390	12	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
Benzo[k]fluoranthene	ND		39	7.7	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
Biphenyl	ND		390	5.2	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
bis (2-chloroisopropyl) ether	ND		390	7.1	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
Bis(2-chloroethoxy)methane	ND	F1	390	30	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
Bis(2-chloroethyl)ether	ND	F1	39	14	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
Bis(2-ethylhexyl) phthalate	ND		390	21	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
Butyl benzyl phthalate	ND		390	18	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-195223-1

Client Sample ID: PWEXSW03189

Lab Sample ID: 460-195223-1

Date Collected: 10/29/19 09:20

Matrix: Solid

Date Received: 10/30/19 16:00

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	ND		390	61	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
Carbazole	ND	F1	390	15	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
Chrysene	ND		390	6.6	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
Dibenz(a,h)anthracene	ND		39	17	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
Dibenzofuran	ND	F1	390	5.5	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
Diethyl phthalate	24	J F1	390	5.7	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
Dimethyl phthalate	ND	F1	390	89	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
Di-n-butyl phthalate	ND	F1	390	69	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
Di-n-octyl phthalate	ND		390	21	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
Fluoranthene	ND		390	14	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
Fluorene	ND	F1	390	5.3	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
Hexachlorobenzene	ND		39	19	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
Hexachlorobutadiene	ND		79	8.3	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
Hexachlorocyclopentadiene	ND		390	34	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
Hexachloroethane	ND	F1	39	13	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
Indeno[1,2,3-cd]pyrene	ND		39	15	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
Isophorone	ND	F1	160	110	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
Naphthalene	ND	F1	390	6.8	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
Nitrobenzene	ND		39	9.4	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
N-Nitrosodi-n-propylamine	ND		39	28	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
N-Nitrosodiphenylamine	ND		390	7.5	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
Pentachlorophenol	ND	F1	310	80	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
Phenanthrene	ND	F1	390	6.9	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
Phenol	ND		390	14	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1
Pyrene	ND		390	9.7	ug/Kg	☼	10/31/19 09:11	11/01/19 00:46	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Aldol condensation product	1200	T A J	ug/Kg	☼	3.10		10/31/19 09:11	11/01/19 00:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	73		10 - 137	10/31/19 09:11	11/01/19 00:46	1
2-Fluorobiphenyl (Surr)	72		29 - 107	10/31/19 09:11	11/01/19 00:46	1
2-Fluorophenol (Surr)	72		20 - 115	10/31/19 09:11	11/01/19 00:46	1
Nitrobenzene-d5 (Surr)	70		25 - 113	10/31/19 09:11	11/01/19 00:46	1
Phenol-d5 (Surr)	69		28 - 109	10/31/19 09:11	11/01/19 00:46	1
Terphenyl-d14 (Surr)	104		27 - 123	10/31/19 09:11	11/01/19 00:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.3		1.0	1.0	%			10/31/19 07:15	1
Percent Solids	84.7		1.0	1.0	%			10/31/19 07:15	1

Client Sample ID: PWEXBM04190

Lab Sample ID: 460-195223-2

Date Collected: 10/29/19 09:35

Matrix: Solid

Date Received: 10/30/19 16:00

Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.1	0.49	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
Bromomethane	ND		1.1	0.54	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
Vinyl chloride	ND		1.1	0.62	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-195223-1

Client Sample ID: PWEXBM04190

Lab Sample ID: 460-195223-2

Date Collected: 10/29/19 09:35

Matrix: Solid

Date Received: 10/30/19 16:00

Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		1.1	0.59	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
Methylene Chloride	ND		1.1	0.52	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
Acetone	13	*	6.8	6.5	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
Carbon disulfide	ND		1.1	0.30	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
Trichlorofluoromethane	ND		1.1	0.46	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
1,1-Dichloroethene	ND		1.1	0.25	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
1,1-Dichloroethane	ND		1.1	0.23	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
trans-1,2-Dichloroethene	ND		1.1	0.28	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
cis-1,2-Dichloroethene	ND		1.1	0.17	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
Chloroform	ND		1.1	0.36	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
1,2-Dichloroethane	ND		1.1	0.33	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
2-Butanone (MEK)	ND		5.7	3.1	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
1,1,1-Trichloroethane	ND		1.1	0.26	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
Carbon tetrachloride	ND		1.1	0.44	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
Bromodichloromethane	ND		1.1	0.29	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
1,2-Dichloropropane	ND		1.1	0.48	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
cis-1,3-Dichloropropene	ND		1.1	0.31	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
Trichloroethene	ND		1.1	0.16	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
Dibromochloromethane	ND		1.1	0.22	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
1,1,2-Trichloroethane	ND		1.1	0.20	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
Benzene	ND		1.1	0.29	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
trans-1,3-Dichloropropene	ND		1.1	0.30	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
Bromoform	ND		1.1	0.48	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
4-Methyl-2-pentanone (MIBK)	ND		5.7	1.8	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
2-Hexanone	ND		5.7	1.9	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
Tetrachloroethene	ND		1.1	0.16	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
1,1,2,2-Tetrachloroethane	ND		1.1	0.24	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
Toluene	ND		1.1	0.26	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
Chlorobenzene	ND		1.1	0.20	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
Ethylbenzene	ND		1.1	0.22	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
Styrene	ND		1.1	0.31	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
Xylenes, Total	ND		2.3	0.20	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.1	0.34	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
Methyl tert-butyl ether	ND		1.1	0.14	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
Cyclohexane	ND		1.1	0.25	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
1,2-Dibromoethane	ND		1.1	0.20	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
1,3-Dichlorobenzene	ND		1.1	0.18	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
1,4-Dichlorobenzene	ND		1.1	0.25	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
1,2-Dichlorobenzene	ND		1.1	0.16	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
Dichlorodifluoromethane	ND		1.1	0.38	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
1,2,4-Trichlorobenzene	ND		1.1	0.40	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
1,2-Dibromo-3-Chloropropane	ND		1.1	0.52	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
Isopropylbenzene	ND		1.1	0.14	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
Methyl acetate	ND		5.7	4.9	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1
Methylcyclohexane	ND		1.1	0.56	ug/Kg	☼	10/31/19 13:12	11/01/19 03:22	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			10/31/19 13:12	11/01/19 03:22	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-195223-1

Client Sample ID: PWEXBM04190

Lab Sample ID: 460-195223-2

Date Collected: 10/29/19 09:35

Matrix: Solid

Date Received: 10/30/19 16:00

Percent Solids: 84.4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		78 - 135	10/31/19 13:12	11/01/19 03:22	1
Toluene-d8 (Surr)	97		73 - 121	10/31/19 13:12	11/01/19 03:22	1
4-Bromofluorobenzene	99		67 - 126	10/31/19 13:12	11/01/19 03:22	1
Dibromofluoromethane (Surr)	118		61 - 149	10/31/19 13:12	11/01/19 03:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		390	40	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
2,4,6-Trichlorophenol	ND		160	50	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
2,4-Dichlorophenol	ND		160	25	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
2,4-Dimethylphenol	ND		390	17	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
2,4-Dinitrophenol	ND		320	190	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
2,4-Dinitrotoluene	ND		79	42	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
2,6-Dinitrotoluene	ND		79	28	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
2-Chloronaphthalene	ND		390	18	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
2-Chlorophenol	ND		390	14	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
2-Methylnaphthalene	ND		390	11	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
2-Methylphenol	ND		390	15	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
2-Nitroaniline	ND		390	15	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
2-Nitrophenol	ND		390	39	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
3,3'-Dichlorobenzidine	ND		160	59	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
3-Nitroaniline	ND		390	44	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
4,6-Dinitro-2-methylphenol	ND		320	64	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
4-Bromophenyl phenyl ether	ND		390	16	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
4-Chloro-3-methylphenol	ND		390	22	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
4-Chloroaniline	ND		390	27	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
4-Chlorophenyl phenyl ether	ND		390	14	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
4-Methylphenol	ND		390	24	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
4-Nitroaniline	ND		390	45	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
4-Nitrophenol	ND		790	64	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
Acenaphthene	ND		390	29	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
Acenaphthylene	ND		390	4.1	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
Acetophenone	ND		390	19	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
Anthracene	ND		390	12	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
Atrazine	ND		160	9.9	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
Benzaldehyde	ND		390	17	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
Benzo[a]anthracene	ND		39	14	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
Benzo[a]pyrene	ND		39	10	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
Benzo[b]fluoranthene	ND		39	10	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
Benzo[g,h,i]perylene	ND		390	12	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
Benzo[k]fluoranthene	ND		39	7.7	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
Biphenyl	ND		390	5.2	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
bis (2-chloroisopropyl) ether	ND		390	7.1	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
Bis(2-chloroethoxy)methane	ND		390	31	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
Bis(2-chloroethyl)ether	ND		39	14	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
Bis(2-ethylhexyl) phthalate	ND		390	21	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
Butyl benzyl phthalate	ND		390	18	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
Caprolactam	ND		390	61	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
Carbazole	ND		390	15	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
Chrysene	ND		390	6.6	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-195223-1

Client Sample ID: PWEXBM04190

Lab Sample ID: 460-195223-2

Date Collected: 10/29/19 09:35

Matrix: Solid

Date Received: 10/30/19 16:00

Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		39	17	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
Dibenzofuran	ND		390	5.5	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
Diethyl phthalate	ND		390	5.7	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
Dimethyl phthalate	ND		390	89	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
Di-n-butyl phthalate	ND		390	69	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
Di-n-octyl phthalate	ND		390	21	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
Fluoranthene	ND		390	14	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
Fluorene	ND		390	5.3	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
Hexachlorobenzene	ND		39	19	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
Hexachlorobutadiene	ND		79	8.3	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
Hexachlorocyclopentadiene	ND		390	34	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
Hexachloroethane	ND		39	13	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
Indeno[1,2,3-cd]pyrene	ND		39	15	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
Isophorone	ND		160	110	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
Naphthalene	ND		390	6.8	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
Nitrobenzene	ND		39	9.4	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
N-Nitrosodi-n-propylamine	ND		39	28	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
N-Nitrosodiphenylamine	ND		390	7.5	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
Pentachlorophenol	ND		320	80	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
Phenanthrene	ND		390	6.9	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
Phenol	ND		390	14	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1
Pyrene	ND		390	9.7	ug/Kg	☼	10/31/19 09:11	11/01/19 01:53	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Aldol condensation product	1300	T A J	ug/Kg	☼	3.08		10/31/19 09:11	11/01/19 01:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	64		10 - 137	10/31/19 09:11	11/01/19 01:53	1
2-Fluorobiphenyl (Surr)	65		29 - 107	10/31/19 09:11	11/01/19 01:53	1
2-Fluorophenol (Surr)	68		20 - 115	10/31/19 09:11	11/01/19 01:53	1
Nitrobenzene-d5 (Surr)	69		25 - 113	10/31/19 09:11	11/01/19 01:53	1
Phenol-d5 (Surr)	65		28 - 109	10/31/19 09:11	11/01/19 01:53	1
Terphenyl-d14 (Surr)	100		27 - 123	10/31/19 09:11	11/01/19 01:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.6		1.0	1.0	%			10/31/19 07:15	1
Percent Solids	84.4		1.0	1.0	%			10/31/19 07:15	1

Client Sample ID: PWEXBM11191

Lab Sample ID: 460-195223-3

Date Collected: 10/29/19 09:55

Matrix: Solid

Date Received: 10/30/19 16:00

Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.1	0.46	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
Bromomethane	ND		1.1	0.50	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
Vinyl chloride	ND		1.1	0.58	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
Chloroethane	ND		1.1	0.55	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
Methylene Chloride	ND		1.1	0.49	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
Acetone	23 *		6.3	6.0	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-195223-1

Client Sample ID: PWEXBM11191

Lab Sample ID: 460-195223-3

Date Collected: 10/29/19 09:55

Matrix: Solid

Date Received: 10/30/19 16:00

Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		1.1	0.28	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
Trichlorofluoromethane	ND		1.1	0.43	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
1,1-Dichloroethene	ND		1.1	0.24	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
1,1-Dichloroethane	ND		1.1	0.22	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
trans-1,2-Dichloroethene	ND		1.1	0.26	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
cis-1,2-Dichloroethene	ND		1.1	0.16	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
Chloroform	ND		1.1	0.34	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
1,2-Dichloroethane	ND		1.1	0.31	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
2-Butanone (MEK)	ND		5.3	2.9	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
1,1,1-Trichloroethane	ND		1.1	0.25	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
Carbon tetrachloride	ND		1.1	0.41	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
Bromodichloromethane	ND		1.1	0.27	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
1,2-Dichloropropane	ND		1.1	0.45	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
cis-1,3-Dichloropropene	ND		1.1	0.29	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
Trichloroethene	ND		1.1	0.15	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
Dibromochloromethane	ND		1.1	0.21	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
1,1,2-Trichloroethane	ND		1.1	0.19	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
Benzene	ND		1.1	0.27	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
trans-1,3-Dichloropropene	ND		1.1	0.28	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
Bromoform	ND		1.1	0.45	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
4-Methyl-2-pentanone (MIBK)	ND		5.3	1.6	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
2-Hexanone	ND		5.3	1.8	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
Tetrachloroethene	ND		1.1	0.15	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
1,1,2,2-Tetrachloroethane	ND		1.1	0.23	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
Toluene	ND		1.1	0.25	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
Chlorobenzene	ND		1.1	0.19	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
Ethylbenzene	ND		1.1	0.21	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
Styrene	ND		1.1	0.29	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
Xylenes, Total	ND		2.1	0.18	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.1	0.32	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
Methyl tert-butyl ether	ND		1.1	0.13	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
Cyclohexane	ND		1.1	0.23	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
1,2-Dibromoethane	ND		1.1	0.19	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
1,3-Dichlorobenzene	ND		1.1	0.17	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
1,4-Dichlorobenzene	ND		1.1	0.24	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
1,2-Dichlorobenzene	ND		1.1	0.15	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
Dichlorodifluoromethane	ND		1.1	0.36	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
1,2,4-Trichlorobenzene	ND		1.1	0.38	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
1,2-Dibromo-3-Chloropropane	ND		1.1	0.49	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
Isopropylbenzene	ND		1.1	0.13	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
Methyl acetate	ND		5.3	4.5	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1
Methylcyclohexane	ND		1.1	0.53	ug/Kg	☼	10/31/19 13:14	11/01/19 03:46	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			10/31/19 13:14	11/01/19 03:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		78 - 135	10/31/19 13:14	11/01/19 03:46	1
Toluene-d8 (Surr)	97		73 - 121	10/31/19 13:14	11/01/19 03:46	1
4-Bromofluorobenzene	95		67 - 126	10/31/19 13:14	11/01/19 03:46	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-195223-1

Client Sample ID: PWEXBM11191

Lab Sample ID: 460-195223-3

Date Collected: 10/29/19 09:55

Matrix: Solid

Date Received: 10/30/19 16:00

Percent Solids: 86.8

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	115		61 - 149	10/31/19 13:14	11/01/19 03:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		380	39	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
2,4,6-Trichlorophenol	ND		150	49	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
2,4-Dichlorophenol	ND		150	24	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
2,4-Dimethylphenol	ND		380	17	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
2,4-Dinitrophenol	ND		310	190	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
2,4-Dinitrotoluene	ND		77	41	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
2,6-Dinitrotoluene	ND		77	28	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
2-Chloronaphthalene	ND		380	18	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
2-Chlorophenol	ND		380	14	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
2-Methylnaphthalene	ND		380	11	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
2-Methylphenol	ND		380	14	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
2-Nitroaniline	ND		380	14	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
2-Nitrophenol	ND		380	38	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
3,3'-Dichlorobenzidine	ND		150	58	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
3-Nitroaniline	ND		380	43	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
4,6-Dinitro-2-methylphenol	ND		310	62	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
4-Bromophenyl phenyl ether	ND		380	15	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
4-Chloro-3-methylphenol	ND		380	21	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
4-Chloroaniline	ND		380	27	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
4-Chlorophenyl phenyl ether	ND		380	13	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
4-Methylphenol	ND		380	24	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
4-Nitroaniline	ND		380	44	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
4-Nitrophenol	ND		770	62	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
Acenaphthene	ND		380	28	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
Acenaphthylene	ND		380	3.9	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
Acetophenone	ND		380	19	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
Anthracene	ND		380	12	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
Atrazine	ND		150	9.6	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
Benzaldehyde	ND		380	17	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
Benzo[a]anthracene	ND		38	13	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
Benzo[a]pyrene	ND		38	10	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
Benzo[b]fluoranthene	ND		38	9.9	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
Benzo[g,h,i]perylene	ND		380	11	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
Benzo[k]fluoranthene	ND		38	7.5	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
Biphenyl	ND		380	5.1	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
bis (2-chloroisopropyl) ether	ND		380	6.9	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
Bis(2-chloroethoxy)methane	ND		380	30	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
Bis(2-chloroethyl)ether	ND		38	13	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
Bis(2-ethylhexyl) phthalate	ND		380	20	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
Butyl benzyl phthalate	ND		380	18	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
Caprolactam	ND		380	59	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
Carbazole	ND		380	15	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
Chrysene	ND		380	6.4	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
Dibenz(a,h)anthracene	ND		38	17	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
Dibenzofuran	ND		380	5.4	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-195223-1

Client Sample ID: PWEXBM11191

Lab Sample ID: 460-195223-3

Date Collected: 10/29/19 09:55

Matrix: Solid

Date Received: 10/30/19 16:00

Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		380	5.5	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
Dimethyl phthalate	ND		380	87	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
Di-n-butyl phthalate	ND		380	67	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
Di-n-octyl phthalate	ND		380	20	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
Fluoranthene	ND		380	13	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
Fluorene	ND		380	5.2	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
Hexachlorobenzene	ND		38	18	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
Hexachlorobutadiene	ND		77	8.1	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
Hexachlorocyclopentadiene	ND		380	33	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
Hexachloroethane	ND		38	13	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
Indeno[1,2,3-cd]pyrene	ND		38	15	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
Isophorone	ND		150	110	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
Naphthalene	ND		380	6.6	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
Nitrobenzene	ND		38	9.2	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
N-Nitrosodi-n-propylamine	ND		38	28	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
N-Nitrosodiphenylamine	ND		380	7.3	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
Pentachlorophenol	ND		310	78	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
Phenanthrene	ND		380	6.7	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
Phenol	ND		380	14	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1
Pyrene	ND		380	9.5	ug/Kg	☼	10/31/19 09:11	11/01/19 02:16	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Aldol condensation product	930	T A J	ug/Kg	☼	3.08		10/31/19 09:11	11/01/19 02:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	75		10 - 137	10/31/19 09:11	11/01/19 02:16	1
2-Fluorobiphenyl (Surr)	64		29 - 107	10/31/19 09:11	11/01/19 02:16	1
2-Fluorophenol (Surr)	70		20 - 115	10/31/19 09:11	11/01/19 02:16	1
Nitrobenzene-d5 (Surr)	66		25 - 113	10/31/19 09:11	11/01/19 02:16	1
Phenol-d5 (Surr)	69		28 - 109	10/31/19 09:11	11/01/19 02:16	1
Terphenyl-d14 (Surr)	114		27 - 123	10/31/19 09:11	11/01/19 02:16	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.2		1.0	1.0	%			10/31/19 07:15	1
Percent Solids	86.8		1.0	1.0	%			10/31/19 07:15	1

Client Sample ID: PWEXBM11192

Lab Sample ID: 460-195223-4

Date Collected: 10/29/19 10:05

Matrix: Solid

Date Received: 10/30/19 16:00

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.1	0.47	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
Bromomethane	ND		1.1	0.51	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
Vinyl chloride	ND		1.1	0.59	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
Chloroethane	ND		1.1	0.57	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
Methylene Chloride	ND		1.1	0.50	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
Acetone	11 *		6.5	6.2	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
Carbon disulfide	ND		1.1	0.29	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
Trichlorofluoromethane	ND		1.1	0.44	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-195223-1

Client Sample ID: PWEXBM11192

Lab Sample ID: 460-195223-4

Date Collected: 10/29/19 10:05

Matrix: Solid

Date Received: 10/30/19 16:00

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.1	0.24	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
1,1-Dichloroethane	ND		1.1	0.22	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
trans-1,2-Dichloroethene	ND		1.1	0.27	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
cis-1,2-Dichloroethene	ND		1.1	0.17	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
Chloroform	ND		1.1	0.35	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
1,2-Dichloroethane	ND		1.1	0.32	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
2-Butanone (MEK)	ND		5.4	2.9	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
1,1,1-Trichloroethane	ND		1.1	0.25	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
Carbon tetrachloride	ND		1.1	0.42	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
Bromodichloromethane	ND		1.1	0.28	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
1,2-Dichloropropane	ND		1.1	0.46	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
cis-1,3-Dichloropropene	ND		1.1	0.30	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
Trichloroethene	ND		1.1	0.16	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
Dibromochloromethane	ND		1.1	0.21	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
1,1,2-Trichloroethane	ND		1.1	0.19	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
Benzene	ND		1.1	0.28	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
trans-1,3-Dichloropropene	ND		1.1	0.29	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
Bromoform	ND		1.1	0.46	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.4	1.7	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
2-Hexanone	ND		5.4	1.9	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
Tetrachloroethene	ND		1.1	0.16	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
1,1,2,2-Tetrachloroethane	ND		1.1	0.23	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
Toluene	ND		1.1	0.25	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
Chlorobenzene	ND		1.1	0.19	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
Ethylbenzene	ND		1.1	0.22	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
Styrene	ND		1.1	0.30	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
Xylenes, Total	ND		2.2	0.19	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.1	0.33	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
Methyl tert-butyl ether	ND		1.1	0.14	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
Cyclohexane	ND		1.1	0.24	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
1,2-Dibromoethane	ND		1.1	0.20	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
1,3-Dichlorobenzene	ND		1.1	0.17	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
1,4-Dichlorobenzene	ND		1.1	0.24	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
1,2-Dichlorobenzene	ND		1.1	0.16	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
Dichlorodifluoromethane	ND		1.1	0.37	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
1,2,4-Trichlorobenzene	ND		1.1	0.39	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
1,2-Dibromo-3-Chloropropane	ND		1.1	0.50	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
Isopropylbenzene	ND		1.1	0.14	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
Methyl acetate	ND		5.4	4.7	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1
Methylcyclohexane	ND		1.1	0.54	ug/Kg	☼	10/31/19 13:16	11/01/19 04:09	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			10/31/19 13:16	11/01/19 04:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	122		78 - 135	10/31/19 13:16	11/01/19 04:09	1
Toluene-d8 (Surr)	101		73 - 121	10/31/19 13:16	11/01/19 04:09	1
4-Bromofluorobenzene	97		67 - 126	10/31/19 13:16	11/01/19 04:09	1
Dibromofluoromethane (Surr)	122		61 - 149	10/31/19 13:16	11/01/19 04:09	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-195223-1

Client Sample ID: PWEXBM11192

Lab Sample ID: 460-195223-4

Date Collected: 10/29/19 10:05

Matrix: Solid

Date Received: 10/30/19 16:00

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		400	41	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
2,4,6-Trichlorophenol	ND		160	52	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
2,4-Dichlorophenol	ND		160	26	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
2,4-Dimethylphenol	ND		400	18	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
2,4-Dinitrophenol	ND		320	200	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
2,4-Dinitrotoluene	ND		82	43	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
2,6-Dinitrotoluene	ND		82	29	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
2-Chloronaphthalene	ND		400	19	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
2-Chlorophenol	ND		400	14	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
2-Methylnaphthalene	ND		400	11	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
2-Methylphenol	ND		400	15	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
2-Nitroaniline	ND		400	15	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
2-Nitrophenol	ND		400	40	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
3,3'-Dichlorobenzidine	ND		160	61	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
3-Nitroaniline	ND		400	45	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
4,6-Dinitro-2-methylphenol	ND		320	66	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
4-Bromophenyl phenyl ether	ND		400	16	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
4-Chloro-3-methylphenol	ND		400	23	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
4-Chloroaniline	ND		400	28	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
4-Chlorophenyl phenyl ether	ND		400	14	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
4-Methylphenol	ND		400	25	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
4-Nitroaniline	ND		400	46	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
4-Nitrophenol	ND		820	66	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
Acenaphthene	ND		400	29	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
Acenaphthylene	ND		400	4.2	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
Acetophenone	ND		400	20	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
Anthracene	ND		400	12	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
Atrazine	ND		160	10	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
Benzaldehyde	ND		400	18	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
Benzo[a]anthracene	ND		40	14	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
Benzo[a]pyrene	ND		40	11	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
Benzo[b]fluoranthene	ND		40	10	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
Benzo[g,h,i]perylene	ND		400	12	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
Benzo[k]fluoranthene	ND		40	7.9	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
Biphenyl	ND		400	5.4	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
bis (2-chloroisopropyl) ether	ND		400	7.3	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
Bis(2-chloroethoxy)methane	ND		400	31	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
Bis(2-chloroethyl)ether	ND		40	14	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
Bis(2-ethylhexyl) phthalate	ND		400	21	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
Butyl benzyl phthalate	ND		400	19	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
Caprolactam	ND		400	63	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
Carbazole	ND		400	15	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
Chrysene	ND		400	6.8	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
Dibenz(a,h)anthracene	ND		40	17	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
Dibenzofuran	ND		400	5.7	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
Diethyl phthalate	ND		400	5.9	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
Dimethyl phthalate	ND		400	92	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
Di-n-butyl phthalate	ND		400	71	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
Di-n-octyl phthalate	ND		400	21	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-195223-1

Client Sample ID: PWEXBM11192

Lab Sample ID: 460-195223-4

Date Collected: 10/29/19 10:05

Matrix: Solid

Date Received: 10/30/19 16:00

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		400	14	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
Fluorene	ND		400	5.5	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
Hexachlorobenzene	ND		40	19	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
Hexachlorobutadiene	ND		82	8.6	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
Hexachlorocyclopentadiene	ND		400	35	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
Hexachloroethane	ND		40	14	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
Indeno[1,2,3-cd]pyrene	ND		40	16	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
Isophorone	ND		160	120	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
Naphthalene	ND		400	7.0	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
Nitrobenzene	ND		40	9.7	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
N-Nitrosodi-n-propylamine	ND		40	29	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
N-Nitrosodiphenylamine	ND		400	7.7	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
Pentachlorophenol	ND		320	83	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
Phenanthrene	ND		400	7.1	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
Phenol	ND		400	15	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1
Pyrene	ND		400	10	ug/Kg	☼	10/31/19 09:11	11/01/19 02:38	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Aldol condensation product	1400	T A J	ug/Kg	☼	3.18		10/31/19 09:11	11/01/19 02:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	47		10 - 137	10/31/19 09:11	11/01/19 02:38	1
2-Fluorobiphenyl (Surr)	61		29 - 107	10/31/19 09:11	11/01/19 02:38	1
2-Fluorophenol (Surr)	69		20 - 115	10/31/19 09:11	11/01/19 02:38	1
Nitrobenzene-d5 (Surr)	66		25 - 113	10/31/19 09:11	11/01/19 02:38	1
Phenol-d5 (Surr)	69		28 - 109	10/31/19 09:11	11/01/19 02:38	1
Terphenyl-d14 (Surr)	82		27 - 123	10/31/19 09:11	11/01/19 02:38	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.1		1.0	1.0	%			10/31/19 07:15	1
Percent Solids	81.9		1.0	1.0	%			10/31/19 07:15	1

Client Sample ID: PWEXBM05193

Lab Sample ID: 460-195223-5

Date Collected: 10/29/19 13:25

Matrix: Solid

Date Received: 10/30/19 16:00

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.1	0.46	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
Bromomethane	ND		1.1	0.50	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
Vinyl chloride	ND		1.1	0.58	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
Chloroethane	ND		1.1	0.56	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
Methylene Chloride	ND		1.1	0.49	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
Acetone	8.7 *		6.4	6.1	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
Carbon disulfide	ND		1.1	0.28	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
Trichlorofluoromethane	ND		1.1	0.43	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
1,1-Dichloroethene	ND		1.1	0.24	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
1,1-Dichloroethane	ND		1.1	0.22	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
trans-1,2-Dichloroethene	ND		1.1	0.26	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
cis-1,2-Dichloroethene	ND		1.1	0.16	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-195223-1

Client Sample ID: PWEXBM05193

Lab Sample ID: 460-195223-5

Date Collected: 10/29/19 13:25

Matrix: Solid

Date Received: 10/30/19 16:00

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		1.1	0.34	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
1,2-Dichloroethane	ND		1.1	0.32	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
2-Butanone (MEK)	ND		5.3	2.9	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
1,1,1-Trichloroethane	ND		1.1	0.25	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
Carbon tetrachloride	ND		1.1	0.41	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
Bromodichloromethane	ND		1.1	0.27	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
1,2-Dichloropropane	ND		1.1	0.45	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
cis-1,3-Dichloropropene	ND		1.1	0.29	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
Trichloroethene	ND		1.1	0.15	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
Dibromochloromethane	ND		1.1	0.21	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
1,1,2-Trichloroethane	ND		1.1	0.19	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
Benzene	ND		1.1	0.27	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
trans-1,3-Dichloropropene	ND		1.1	0.28	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
Bromoform	ND		1.1	0.45	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.3	1.7	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
2-Hexanone	ND		5.3	1.8	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
Tetrachloroethene	ND		1.1	0.15	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
1,1,2,2-Tetrachloroethane	ND		1.1	0.23	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
Toluene	ND		1.1	0.25	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
Chlorobenzene	ND		1.1	0.19	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
Ethylbenzene	ND		1.1	0.21	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
Styrene	ND		1.1	0.30	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
Xylenes, Total	ND		2.1	0.19	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.1	0.32	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
Methyl tert-butyl ether	ND		1.1	0.13	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
Cyclohexane	ND		1.1	0.24	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
1,2-Dibromoethane	ND		1.1	0.19	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
1,3-Dichlorobenzene	ND		1.1	0.17	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
1,4-Dichlorobenzene	ND		1.1	0.24	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
1,2-Dichlorobenzene	ND		1.1	0.15	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
Dichlorodifluoromethane	ND		1.1	0.36	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
1,2,4-Trichlorobenzene	ND		1.1	0.38	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
1,2-Dibromo-3-Chloropropane	ND		1.1	0.49	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
Isopropylbenzene	ND		1.1	0.13	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
Methyl acetate	ND		5.3	4.6	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1
Methylcyclohexane	ND		1.1	0.53	ug/Kg	☼	10/31/19 13:18	11/01/19 04:32	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			10/31/19 13:18	11/01/19 04:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		78 - 135	10/31/19 13:18	11/01/19 04:32	1
Toluene-d8 (Surr)	97		73 - 121	10/31/19 13:18	11/01/19 04:32	1
4-Bromofluorobenzene	97		67 - 126	10/31/19 13:18	11/01/19 04:32	1
Dibromofluoromethane (Surr)	117		61 - 149	10/31/19 13:18	11/01/19 04:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		390	40	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
2,4,6-Trichlorophenol	ND		160	50	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-195223-1

Client Sample ID: PWEXBM05193

Lab Sample ID: 460-195223-5

Date Collected: 10/29/19 13:25

Matrix: Solid

Date Received: 10/30/19 16:00

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		160	25	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
2,4-Dimethylphenol	ND		390	17	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
2,4-Dinitrophenol	ND		310	190	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
2,4-Dinitrotoluene	ND		79	42	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
2,6-Dinitrotoluene	ND		79	28	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
2-Chloronaphthalene	ND		390	18	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
2-Chlorophenol	ND		390	14	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
2-Methylnaphthalene	ND		390	11	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
2-Methylphenol	ND		390	15	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
2-Nitroaniline	ND		390	15	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
2-Nitrophenol	ND		390	39	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
3,3'-Dichlorobenzidine	ND		160	59	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
3-Nitroaniline	ND		390	44	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
4,6-Dinitro-2-methylphenol	ND		310	63	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
4-Bromophenyl phenyl ether	ND		390	15	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
4-Chloro-3-methylphenol	ND		390	22	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
4-Chloroaniline	ND		390	27	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
4-Chlorophenyl phenyl ether	ND		390	14	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
4-Methylphenol	ND		390	24	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
4-Nitroaniline	ND		390	45	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
4-Nitrophenol	ND		790	63	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
Acenaphthene	ND		390	28	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
Acenaphthylene	ND		390	4.0	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
Acetophenone	ND		390	19	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
Anthracene	ND		390	12	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
Atrazine	ND		160	9.8	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
Benzaldehyde	ND		390	17	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
Benzo[a]anthracene	ND		39	14	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
Benzo[a]pyrene	ND		39	10	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
Benzo[b]fluoranthene	ND		39	10	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
Benzo[g,h,i]perylene	ND		390	11	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
Benzo[k]fluoranthene	ND		39	7.6	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
Biphenyl	ND		390	5.2	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
bis (2-chloroisopropyl) ether	ND		390	7.0	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
Bis(2-chloroethoxy)methane	ND		390	30	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
Bis(2-chloroethyl)ether	ND		39	14	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
Bis(2-ethylhexyl) phthalate	ND		390	21	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
Butyl benzyl phthalate	ND		390	18	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
Caprolactam	ND		390	61	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
Carbazole	ND		390	15	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
Chrysene	ND		390	6.6	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
Dibenz(a,h)anthracene	ND		39	17	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
Dibenzofuran	ND		390	5.5	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
Diethyl phthalate	ND		390	5.6	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
Dimethyl phthalate	ND		390	88	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
Di-n-butyl phthalate	ND		390	69	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
Di-n-octyl phthalate	ND		390	21	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
Fluoranthene	ND		390	14	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
Fluorene	ND		390	5.3	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-195223-1

Client Sample ID: PWEXBM05193

Lab Sample ID: 460-195223-5

Date Collected: 10/29/19 13:25

Matrix: Solid

Date Received: 10/30/19 16:00

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	ND		39	18	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
Hexachlorobutadiene	ND		79	8.3	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
Hexachlorocyclopentadiene	ND		390	34	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
Hexachloroethane	ND		39	13	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
Indeno[1,2,3-cd]pyrene	ND		39	15	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
Isophorone	ND		160	110	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
Naphthalene	ND		390	6.7	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
Nitrobenzene	ND		39	9.3	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
N-Nitrosodi-n-propylamine	ND		39	28	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
N-Nitrosodiphenylamine	ND		390	7.4	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
Pentachlorophenol	ND		310	80	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
Phenanthrene	ND		390	6.8	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
Phenol	ND		390	14	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1
Pyrene	ND		390	9.7	ug/Kg	☼	10/31/19 09:11	11/01/19 03:00	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Aldol condensation product	1100	T A J	ug/Kg	☼	3.10		10/31/19 09:11	11/01/19 03:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	62		10 - 137	10/31/19 09:11	11/01/19 03:00	1
2-Fluorobiphenyl (Surr)	67		29 - 107	10/31/19 09:11	11/01/19 03:00	1
2-Fluorophenol (Surr)	66		20 - 115	10/31/19 09:11	11/01/19 03:00	1
Nitrobenzene-d5 (Surr)	68		25 - 113	10/31/19 09:11	11/01/19 03:00	1
Phenol-d5 (Surr)	65		28 - 109	10/31/19 09:11	11/01/19 03:00	1
Terphenyl-d14 (Surr)	91		27 - 123	10/31/19 09:11	11/01/19 03:00	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.9		1.0	1.0	%			10/31/19 07:15	1
Percent Solids	85.1		1.0	1.0	%			10/31/19 07:15	1

Client Sample ID: PWEXBM05194

Lab Sample ID: 460-195223-6

Date Collected: 10/29/19 13:40

Matrix: Solid

Date Received: 10/30/19 16:00

Percent Solids: 87.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.1	0.47	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
Bromomethane	ND		1.1	0.51	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
Vinyl chloride	ND		1.1	0.59	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
Chloroethane	ND		1.1	0.57	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
Methylene Chloride	ND		1.1	0.50	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
Acetone	25 *		6.5	6.2	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
Carbon disulfide	ND		1.1	0.29	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
Trichlorofluoromethane	ND		1.1	0.44	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
1,1-Dichloroethene	ND		1.1	0.24	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
1,1-Dichloroethane	ND		1.1	0.22	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
trans-1,2-Dichloroethene	ND		1.1	0.27	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
cis-1,2-Dichloroethene	ND		1.1	0.16	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
Chloroform	ND		1.1	0.35	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
1,2-Dichloroethane	ND		1.1	0.32	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-195223-1

Client Sample ID: PWEXBM05194

Lab Sample ID: 460-195223-6

Date Collected: 10/29/19 13:40

Matrix: Solid

Date Received: 10/30/19 16:00

Percent Solids: 87.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		5.4	2.9	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
1,1,1-Trichloroethane	ND		1.1	0.25	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
Carbon tetrachloride	ND		1.1	0.42	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
Bromodichloromethane	ND		1.1	0.28	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
1,2-Dichloropropane	ND		1.1	0.46	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
cis-1,3-Dichloropropene	ND		1.1	0.30	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
Trichloroethene	ND		1.1	0.16	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
Dibromochloromethane	ND		1.1	0.21	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
1,1,2-Trichloroethane	ND		1.1	0.19	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
Benzene	ND		1.1	0.28	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
trans-1,3-Dichloropropene	ND		1.1	0.29	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
Bromoform	ND		1.1	0.46	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
4-Methyl-2-pentanone (MIBK)	ND		5.4	1.7	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
2-Hexanone	ND		5.4	1.9	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
Tetrachloroethene	ND		1.1	0.16	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
1,1,2,2-Tetrachloroethane	ND		1.1	0.23	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
Toluene	ND		1.1	0.25	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
Chlorobenzene	ND		1.1	0.19	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
Ethylbenzene	ND		1.1	0.22	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
Styrene	ND		1.1	0.30	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
Xylenes, Total	ND		2.2	0.19	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.1	0.33	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
Methyl tert-butyl ether	ND		1.1	0.14	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
Cyclohexane	ND		1.1	0.24	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
1,2-Dibromoethane	ND		1.1	0.20	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
1,3-Dichlorobenzene	ND		1.1	0.17	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
1,4-Dichlorobenzene	ND		1.1	0.24	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
1,2-Dichlorobenzene	ND		1.1	0.16	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
Dichlorodifluoromethane	ND		1.1	0.37	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
1,2,4-Trichlorobenzene	ND		1.1	0.39	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
1,2-Dibromo-3-Chloropropane	ND		1.1	0.50	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
Isopropylbenzene	ND		1.1	0.14	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
Methyl acetate	ND		5.4	4.7	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1
Methylcyclohexane	ND		1.1	0.54	ug/Kg	☼	10/31/19 13:20	11/01/19 04:56	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	6.5	T J	ug/Kg	☼	14.39		10/31/19 13:20	11/01/19 04:56	1
Unknown	7.2	T J	ug/Kg	☼	14.84		10/31/19 13:20	11/01/19 04:56	1
Unknown	6.1	T J	ug/Kg	☼	15.08		10/31/19 13:20	11/01/19 04:56	1
Unknown	6.1	T J	ug/Kg	☼	15.49		10/31/19 13:20	11/01/19 04:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		78 - 135	10/31/19 13:20	11/01/19 04:56	1
Toluene-d8 (Surr)	99		73 - 121	10/31/19 13:20	11/01/19 04:56	1
4-Bromofluorobenzene	97		67 - 126	10/31/19 13:20	11/01/19 04:56	1
Dibromofluoromethane (Surr)	120		61 - 149	10/31/19 13:20	11/01/19 04:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		380	39	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-195223-1

Client Sample ID: PWEXBM05194

Lab Sample ID: 460-195223-6

Date Collected: 10/29/19 13:40

Matrix: Solid

Date Received: 10/30/19 16:00

Percent Solids: 87.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND		150	49	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
2,4-Dichlorophenol	ND		150	24	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
2,4-Dimethylphenol	ND		380	17	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
2,4-Dinitrophenol	ND		300	190	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
2,4-Dinitrotoluene	ND		77	41	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
2,6-Dinitrotoluene	ND		77	27	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
2-Chloronaphthalene	ND		380	18	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
2-Chlorophenol	ND		380	13	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
2-Methylnaphthalene	ND		380	11	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
2-Methylphenol	ND		380	14	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
2-Nitroaniline	ND		380	14	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
2-Nitrophenol	ND		380	38	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
3,3'-Dichlorobenzidine	ND		150	57	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
3-Nitroaniline	ND		380	43	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
4,6-Dinitro-2-methylphenol	ND		300	62	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
4-Bromophenyl phenyl ether	ND		380	15	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
4-Chloro-3-methylphenol	ND		380	21	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
4-Chloroaniline	ND		380	27	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
4-Chlorophenyl phenyl ether	ND		380	13	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
4-Methylphenol	ND		380	24	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
4-Nitroaniline	ND		380	44	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
4-Nitrophenol	ND		770	62	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
Acenaphthene	ND		380	28	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
Acenaphthylene	ND		380	3.9	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
Acetophenone	ND		380	19	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
Anthracene	ND		380	12	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
Atrazine	ND		150	9.6	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
Benzaldehyde	ND		380	17	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
Benzo[a]anthracene	ND		38	13	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
Benzo[a]pyrene	ND		38	10	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
Benzo[b]fluoranthene	ND		38	9.8	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
Benzo[g,h,i]perylene	ND		380	11	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
Benzo[k]fluoranthene	ND		38	7.4	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
Biphenyl	ND		380	5.0	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
bis (2-chloroisopropyl) ether	ND		380	6.9	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
Bis(2-chloroethoxy)methane	ND		380	30	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
Bis(2-chloroethyl)ether	ND		38	13	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
Bis(2-ethylhexyl) phthalate	ND		380	20	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
Butyl benzyl phthalate	ND		380	18	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
Caprolactam	ND		380	59	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
Carbazole	ND		380	14	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
Chrysene	ND		380	6.4	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
Dibenz(a,h)anthracene	ND		38	16	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
Dibenzofuran	ND		380	5.3	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
Diethyl phthalate	ND		380	5.5	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
Dimethyl phthalate	ND		380	86	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
Di-n-butyl phthalate	ND		380	67	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
Di-n-octyl phthalate	ND		380	20	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
Fluoranthene	ND		380	13	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-195223-1

Client Sample ID: PWEXBM05194

Lab Sample ID: 460-195223-6

Date Collected: 10/29/19 13:40

Matrix: Solid

Date Received: 10/30/19 16:00

Percent Solids: 87.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	ND		380	5.1	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
Hexachlorobenzene	ND		38	18	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
Hexachlorobutadiene	ND		77	8.1	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
Hexachlorocyclopentadiene	ND		380	33	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
Hexachloroethane	ND		38	13	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
Indeno[1,2,3-cd]pyrene	ND		38	15	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
Isophorone	ND		150	110	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
Naphthalene	ND		380	6.6	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
Nitrobenzene	ND		38	9.1	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
N-Nitrosodi-n-propylamine	ND		38	28	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
N-Nitrosodiphenylamine	ND		380	7.3	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
Pentachlorophenol	ND		300	78	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
Phenanthrene	ND		380	6.7	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
Phenol	ND		380	14	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1
Pyrene	ND		380	9.4	ug/Kg	☼	10/31/19 09:11	11/01/19 03:23	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Aldol condensation product	1200	T A J	ug/Kg	☼	3.08		10/31/19 09:11	11/01/19 03:23	1
Unknown	1600	T J	ug/Kg	☼	12.63		10/31/19 09:11	11/01/19 03:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	62		10 - 137	10/31/19 09:11	11/01/19 03:23	1
2-Fluorobiphenyl (Surr)	57		29 - 107	10/31/19 09:11	11/01/19 03:23	1
2-Fluorophenol (Surr)	63		20 - 115	10/31/19 09:11	11/01/19 03:23	1
Nitrobenzene-d5 (Surr)	60		25 - 113	10/31/19 09:11	11/01/19 03:23	1
Phenol-d5 (Surr)	62		28 - 109	10/31/19 09:11	11/01/19 03:23	1
Terphenyl-d14 (Surr)	106		27 - 123	10/31/19 09:11	11/01/19 03:23	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.7		1.0	1.0	%			10/31/19 07:15	1
Percent Solids	87.3		1.0	1.0	%			10/31/19 07:15	1

Surrogate Summary

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-195223-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (78-135)	TOL (73-121)	BFB (67-126)	DBFM (61-149)
460-195223-1	PWEXSW03189	121	97	95	115
460-195223-2	PWEXBM04190	114	97	99	118
460-195223-3	PWEXBM11191	115	97	95	115
460-195223-4	PWEXBM11192	122	101	97	122
460-195223-5	PWEXBM05193	120	97	97	117
460-195223-6	PWEXBM05194	117	99	97	120
LB3 460-651782/1-A	Method Blank	109	96	99	116
LCS 460-651827/5	Lab Control Sample	119	101	97	118
LCS 460-651827/6	Lab Control Sample Dup	130	116	114	132
MB 460-651827/11	Method Blank	111	101	98	117

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (10-137)	FBP (29-107)	2FP (20-115)	NBZ (25-113)	PHL (28-109)	TPHL (27-123)
460-195223-1	PWEXSW03189	73	72	72	70	69	104
460-195223-1 MS	PWEXSW03189	73	68	74	73	74	90
460-195223-1 MSD	PWEXSW03189	77	70	72	74	74	95
460-195223-2	PWEXBM04190	64	65	68	69	65	100
460-195223-3	PWEXBM11191	75	64	70	66	69	114
460-195223-4	PWEXBM11192	47	61	69	66	69	82
460-195223-5	PWEXBM05193	62	67	66	68	65	91
460-195223-6	PWEXBM05194	62	57	63	60	62	106
LCS 460-651701/2-A	Lab Control Sample	98	90	94	96	96	119
LCS 460-651701/4-A	Lab Control Sample	112	103	109	110	105	142 X
MB 460-651701/1-A	Method Blank	94	90	96	95	92	124 X

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-195223-1

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

Lab Sample ID: LB3 460-651782/1-A

Matrix: Solid

Analysis Batch: 651827

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 651782

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.44	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
Bromomethane	ND		1.0	0.47	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
Vinyl chloride	ND		1.0	0.55	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
Chloroethane	ND		1.0	0.52	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
Methylene Chloride	ND		1.0	0.46	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
Acetone	ND		6.0	5.7	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
Carbon disulfide	ND		1.0	0.27	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
Trichlorofluoromethane	ND		1.0	0.41	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
1,1-Dichloroethene	ND		1.0	0.23	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
1,1-Dichloroethane	ND		1.0	0.21	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
Chloroform	ND		1.0	0.32	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
1,2-Dichloroethane	ND		1.0	0.30	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
2-Butanone (MEK)	ND		5.0	2.7	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
Carbon tetrachloride	ND		1.0	0.39	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
Bromodichloromethane	ND		1.0	0.26	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
1,2-Dichloropropane	ND		1.0	0.42	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
cis-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
Trichloroethene	ND		1.0	0.14	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
Dibromochloromethane	ND		1.0	0.19	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
1,1,2-Trichloroethane	ND		1.0	0.18	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
Benzene	ND		1.0	0.26	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
trans-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
Bromoform	ND		1.0	0.43	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
2-Hexanone	ND		5.0	1.7	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
Tetrachloroethene	ND		1.0	0.14	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
Toluene	ND		1.0	0.23	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
Chlorobenzene	ND		1.0	0.18	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
Ethylbenzene	ND		1.0	0.20	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
Styrene	ND		1.0	0.28	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
Xylenes, Total	ND		2.0	0.17	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.30	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
Methyl tert-butyl ether	ND		1.0	0.13	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
Cyclohexane	ND		1.0	0.22	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
1,2-Dibromoethane	ND		1.0	0.18	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
Dichlorodifluoromethane	ND		1.0	0.34	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
1,2,4-Trichlorobenzene	ND		1.0	0.36	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.46	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
Isopropylbenzene	ND		1.0	0.13	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
Methyl acetate	ND		5.0	4.3	ug/Kg		10/31/19 13:10	11/01/19 01:02	1
Methylcyclohexane	ND		1.0	0.50	ug/Kg		10/31/19 13:10	11/01/19 01:02	1

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QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-195223-1

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

Lab Sample ID: LB3 460-651782/1-A

Matrix: Solid

Analysis Batch: 651827

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 651782

	LB3	LB3							
Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg				10/31/19 13:10	11/01/19 01:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		78 - 135				10/31/19 13:10	11/01/19 01:02	1
Toluene-d8 (Surr)	96		73 - 121				10/31/19 13:10	11/01/19 01:02	1
4-Bromofluorobenzene	99		67 - 126				10/31/19 13:10	11/01/19 01:02	1
Dibromofluoromethane (Surr)	116		61 - 149				10/31/19 13:10	11/01/19 01:02	1

Lab Sample ID: MB 460-651827/11

Matrix: Solid

Analysis Batch: 651827

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.44	ug/Kg			11/01/19 00:03	1
Bromomethane	ND		1.0	0.47	ug/Kg			11/01/19 00:03	1
Vinyl chloride	ND		1.0	0.55	ug/Kg			11/01/19 00:03	1
Chloroethane	ND		1.0	0.52	ug/Kg			11/01/19 00:03	1
Methylene Chloride	ND		1.0	0.46	ug/Kg			11/01/19 00:03	1
Acetone	ND		6.0	5.7	ug/Kg			11/01/19 00:03	1
Carbon disulfide	ND		1.0	0.27	ug/Kg			11/01/19 00:03	1
Trichlorofluoromethane	ND		1.0	0.41	ug/Kg			11/01/19 00:03	1
1,1-Dichloroethene	ND		1.0	0.23	ug/Kg			11/01/19 00:03	1
1,1-Dichloroethane	ND		1.0	0.21	ug/Kg			11/01/19 00:03	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/Kg			11/01/19 00:03	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/Kg			11/01/19 00:03	1
Chloroform	ND		1.0	0.32	ug/Kg			11/01/19 00:03	1
1,2-Dichloroethane	ND		1.0	0.30	ug/Kg			11/01/19 00:03	1
2-Butanone (MEK)	ND		5.0	2.7	ug/Kg			11/01/19 00:03	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/Kg			11/01/19 00:03	1
Carbon tetrachloride	ND		1.0	0.39	ug/Kg			11/01/19 00:03	1
Bromodichloromethane	ND		1.0	0.26	ug/Kg			11/01/19 00:03	1
1,2-Dichloropropane	ND		1.0	0.42	ug/Kg			11/01/19 00:03	1
cis-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			11/01/19 00:03	1
Trichloroethene	ND		1.0	0.14	ug/Kg			11/01/19 00:03	1
Dibromochloromethane	ND		1.0	0.19	ug/Kg			11/01/19 00:03	1
1,1,2-Trichloroethane	ND		1.0	0.18	ug/Kg			11/01/19 00:03	1
Benzene	ND		1.0	0.26	ug/Kg			11/01/19 00:03	1
trans-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			11/01/19 00:03	1
Bromoform	ND		1.0	0.43	ug/Kg			11/01/19 00:03	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/Kg			11/01/19 00:03	1
2-Hexanone	ND		5.0	1.7	ug/Kg			11/01/19 00:03	1
Tetrachloroethene	ND		1.0	0.14	ug/Kg			11/01/19 00:03	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/Kg			11/01/19 00:03	1
Toluene	ND		1.0	0.23	ug/Kg			11/01/19 00:03	1
Chlorobenzene	ND		1.0	0.18	ug/Kg			11/01/19 00:03	1
Ethylbenzene	ND		1.0	0.20	ug/Kg			11/01/19 00:03	1
Styrene	ND		1.0	0.28	ug/Kg			11/01/19 00:03	1
Xylenes, Total	ND		2.0	0.17	ug/Kg			11/01/19 00:03	1

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QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-195223-1

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

Lab Sample ID: MB 460-651827/11

Matrix: Solid

Analysis Batch: 651827

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.30	ug/Kg			11/01/19 00:03	1
Methyl tert-butyl ether	ND		1.0	0.13	ug/Kg			11/01/19 00:03	1
Cyclohexane	ND		1.0	0.22	ug/Kg			11/01/19 00:03	1
1,2-Dibromoethane	ND		1.0	0.18	ug/Kg			11/01/19 00:03	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/Kg			11/01/19 00:03	1
1,4-Dichlorobenzene	ND		1.0	0.23	ug/Kg			11/01/19 00:03	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/Kg			11/01/19 00:03	1
Dichlorodifluoromethane	ND		1.0	0.34	ug/Kg			11/01/19 00:03	1
1,2,4-Trichlorobenzene	ND		1.0	0.36	ug/Kg			11/01/19 00:03	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.46	ug/Kg			11/01/19 00:03	1
Isopropylbenzene	ND		1.0	0.13	ug/Kg			11/01/19 00:03	1
Methyl acetate	ND		5.0	4.3	ug/Kg			11/01/19 00:03	1
Methylcyclohexane	ND		1.0	0.50	ug/Kg			11/01/19 00:03	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg					11/01/19 00:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		78 - 135		11/01/19 00:03	1
Toluene-d8 (Surr)	101		73 - 121		11/01/19 00:03	1
4-Bromofluorobenzene	98		67 - 126		11/01/19 00:03	1
Dibromofluoromethane (Surr)	117		61 - 149		11/01/19 00:03	1

Lab Sample ID: LCS 460-651827/5

Matrix: Solid

Analysis Batch: 651827

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	20.0	17.7		ug/Kg		89	66 - 128
Bromomethane	20.0	17.5		ug/Kg		88	59 - 136
Vinyl chloride	20.0	18.0		ug/Kg		90	70 - 134
Chloroethane	20.0	17.2		ug/Kg		86	50 - 139
Methylene Chloride	20.0	23.0		ug/Kg		115	79 - 128
Acetone	100	115		ug/Kg		115	75 - 120
Carbon disulfide	20.0	20.9		ug/Kg		104	74 - 130
Trichlorofluoromethane	20.0	20.3		ug/Kg		102	68 - 136
1,1-Dichloroethene	20.0	23.3		ug/Kg		117	79 - 132
1,1-Dichloroethane	20.0	21.1		ug/Kg		105	80 - 124
trans-1,2-Dichloroethene	20.0	22.9		ug/Kg		115	80 - 129
cis-1,2-Dichloroethene	20.0	21.8		ug/Kg		109	80 - 123
Chloroform	20.0	22.4		ug/Kg		112	80 - 122
1,2-Dichloroethane	20.0	21.1		ug/Kg		105	68 - 120
2-Butanone (MEK)	100	110		ug/Kg		110	61 - 140
1,1,1-Trichloroethane	20.0	24.1		ug/Kg		120	80 - 125
Carbon tetrachloride	20.0	23.1		ug/Kg		116	77 - 138
Bromodichloromethane	20.0	20.7		ug/Kg		104	76 - 129
1,2-Dichloropropane	20.0	18.2		ug/Kg		91	77 - 124
cis-1,3-Dichloropropene	20.0	17.8		ug/Kg		89	75 - 124

Eurofins TestAmerica, Edison

QC Sample Results

Client: AECOM

Job ID: 460-195223-1

Project/Site: 60584654, Penn Yan Former MGP Phase 2

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

Lab Sample ID: LCS 460-651827/5

Matrix: Solid

Analysis Batch: 651827

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	20.0	19.9		ug/Kg		99	79 - 122
Dibromochloromethane	20.0	18.2		ug/Kg		91	67 - 143
1,1,2-Trichloroethane	20.0	17.4		ug/Kg		87	76 - 124
Benzene	20.0	19.1		ug/Kg		96	75 - 127
trans-1,3-Dichloropropene	20.0	17.6		ug/Kg		88	72 - 121
Bromoform	20.0	18.7		ug/Kg		93	19 - 150
4-Methyl-2-pentanone (MIBK)	100	94.1		ug/Kg		94	80 - 120
2-Hexanone	100	92.3		ug/Kg		92	78 - 120
Tetrachloroethene	20.0	20.9		ug/Kg		105	73 - 130
1,1,2,2-Tetrachloroethane	20.0	18.9		ug/Kg		94	72 - 131
Toluene	20.0	19.5		ug/Kg		97	75 - 122
Chlorobenzene	20.0	19.5		ug/Kg		98	80 - 120
Ethylbenzene	20.0	19.6		ug/Kg		98	79 - 124
Styrene	20.0	20.0		ug/Kg		100	78 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	23.6		ug/Kg		118	78 - 132
Methyl tert-butyl ether	20.0	22.6		ug/Kg		113	80 - 120
Cyclohexane	20.0	22.7		ug/Kg		113	67 - 135
1,2-Dibromoethane	20.0	20.1		ug/Kg		101	80 - 122
1,3-Dichlorobenzene	20.0	19.1		ug/Kg		95	79 - 124
1,4-Dichlorobenzene	20.0	18.7		ug/Kg		94	79 - 121
1,2-Dichlorobenzene	20.0	19.3		ug/Kg		96	80 - 121
Dichlorodifluoromethane	20.0	15.8		ug/Kg		79	72 - 127
1,2,4-Trichlorobenzene	20.0	20.1		ug/Kg		101	74 - 124
1,2-Dibromo-3-Chloropropane	20.0	21.5		ug/Kg		107	65 - 129
Isopropylbenzene	20.0	20.4		ug/Kg		102	80 - 125
Methyl acetate	40.0	43.8		ug/Kg		110	73 - 123
Methylcyclohexane	20.0	21.8		ug/Kg		109	71 - 137

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	119		78 - 135
Toluene-d8 (Surr)	101		73 - 121
4-Bromofluorobenzene	97		67 - 126
Dibromofluoromethane (Surr)	118		61 - 149

Lab Sample ID: LCSD 460-651827/6

Matrix: Solid

Analysis Batch: 651827

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
Chloromethane	20.0	19.4		ug/Kg		97	66 - 128	9	30
Bromomethane	20.0	21.6		ug/Kg		108	59 - 136	21	30
Vinyl chloride	20.0	20.2		ug/Kg		101	70 - 134	11	30
Chloroethane	20.0	20.6		ug/Kg		103	50 - 139	18	30
Methylene Chloride	20.0	23.6		ug/Kg		118	79 - 128	2	30
Acetone	100	132	*	ug/Kg		132	75 - 120	14	30
Carbon disulfide	20.0	21.1		ug/Kg		105	74 - 130	1	30
Trichlorofluoromethane	20.0	25.0		ug/Kg		125	68 - 136	21	30
1,1-Dichloroethene	20.0	25.0		ug/Kg		125	79 - 132	7	30

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QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-195223-1

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

Lab Sample ID: LCSD 460-651827/6

Matrix: Solid

Analysis Batch: 651827

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
1,1-Dichloroethane	20.0	21.2		ug/Kg		106	80 - 124	1	30
trans-1,2-Dichloroethene	20.0	24.1		ug/Kg		121	80 - 129	5	30
cis-1,2-Dichloroethene	20.0	23.2		ug/Kg		116	80 - 123	6	30
Chloroform	20.0	23.8		ug/Kg		119	80 - 122	6	30
1,2-Dichloroethane	20.0	22.8		ug/Kg		114	68 - 120	8	30
2-Butanone (MEK)	100	127		ug/Kg		127	61 - 140	14	30
1,1,1-Trichloroethane	20.0	24.7		ug/Kg		124	80 - 125	3	30
Carbon tetrachloride	20.0	24.6		ug/Kg		123	77 - 138	6	30
Bromodichloromethane	20.0	21.1		ug/Kg		106	76 - 129	2	30
1,2-Dichloropropane	20.0	18.9		ug/Kg		95	77 - 124	4	30
cis-1,3-Dichloropropene	20.0	18.4		ug/Kg		92	75 - 124	4	30
Trichloroethene	20.0	21.5		ug/Kg		108	79 - 122	8	30
Dibromochloromethane	20.0	19.1		ug/Kg		95	67 - 143	5	30
1,1,2-Trichloroethane	20.0	18.4		ug/Kg		92	76 - 124	6	30
Benzene	20.0	19.3		ug/Kg		97	75 - 127	1	30
trans-1,3-Dichloropropene	20.0	17.0		ug/Kg		85	72 - 121	3	30
Bromoform	20.0	20.0		ug/Kg		100	19 - 150	7	30
4-Methyl-2-pentanone (MIBK)	100	105		ug/Kg		105	80 - 120	11	30
2-Hexanone	100	103		ug/Kg		103	78 - 120	11	30
Tetrachloroethene	20.0	21.4		ug/Kg		107	73 - 130	2	30
1,1,2,2-Tetrachloroethane	20.0	20.1		ug/Kg		101	72 - 131	7	30
Toluene	20.0	20.0		ug/Kg		100	75 - 122	3	30
Chlorobenzene	20.0	20.2		ug/Kg		101	80 - 120	3	30
Ethylbenzene	20.0	21.1		ug/Kg		105	79 - 124	7	30
Styrene	20.0	21.2		ug/Kg		106	78 - 123	6	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	23.5		ug/Kg		118	78 - 132	0	30
Methyl tert-butyl ether	20.0	23.7		ug/Kg		118	80 - 120	5	30
Cyclohexane	20.0	23.2		ug/Kg		116	67 - 135	2	30
1,2-Dibromoethane	20.0	19.9		ug/Kg		100	80 - 122	1	30
1,3-Dichlorobenzene	20.0	20.3		ug/Kg		101	79 - 124	6	30
1,4-Dichlorobenzene	20.0	20.3		ug/Kg		102	79 - 121	8	30
1,2-Dichlorobenzene	20.0	21.3		ug/Kg		106	80 - 121	10	30
Dichlorodifluoromethane	20.0	20.6		ug/Kg		103	72 - 127	26	30
1,2,4-Trichlorobenzene	20.0	21.9		ug/Kg		109	74 - 124	8	30
1,2-Dibromo-3-Chloropropane	20.0	24.9		ug/Kg		124	65 - 129	15	30
Isopropylbenzene	20.0	21.3		ug/Kg		106	80 - 125	4	30
Methyl acetate	40.0	41.9		ug/Kg		105	73 - 123	5	30
Methylcyclohexane	20.0	23.5		ug/Kg		118	71 - 137	8	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	130		78 - 135
Toluene-d8 (Surr)	116		73 - 121
4-Bromofluorobenzene	114		67 - 126
Dibromofluoromethane (Surr)	132		61 - 149

QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-195223-1

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

Lab Sample ID: MB 460-651701/1-A

Matrix: Solid

Analysis Batch: 651877

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 651701

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		330	34	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
2,4,6-Trichlorophenol	ND		130	42	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
2,4-Dichlorophenol	ND		130	21	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
2,4-Dimethylphenol	ND		330	15	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
2,4-Dinitrophenol	ND		270	160	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
2,4-Dinitrotoluene	ND		67	36	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
2,6-Dinitrotoluene	ND		67	24	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
2-Chloronaphthalene	ND		330	15	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
2-Chlorophenol	ND		330	12	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
2-Methylnaphthalene	ND		330	9.3	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
2-Methylphenol	ND		330	12	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
2-Nitroaniline	ND		330	12	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
2-Nitrophenol	ND		330	33	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
3,3'-Dichlorobenzidine	ND		130	50	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
3-Nitroaniline	ND		330	37	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
4,6-Dinitro-2-methylphenol	ND		270	54	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
4-Bromophenyl phenyl ether	ND		330	13	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
4-Chloro-3-methylphenol	ND		330	19	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
4-Chloroaniline	ND		330	23	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
4-Chlorophenyl phenyl ether	ND		330	12	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
4-Methylphenol	ND		330	21	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
4-Nitroaniline	ND		330	38	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
4-Nitrophenol	ND		670	54	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
Acenaphthene	ND		330	24	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
Acenaphthylene	ND		330	3.4	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
Acetophenone	ND		330	16	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
Anthracene	ND		330	10	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
Atrazine	ND		130	8.3	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
Benzaldehyde	ND		330	14	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
Benzo[a]anthracene	ND		33	12	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
Benzo[a]pyrene	ND		33	8.8	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
Benzo[b]fluoranthene	ND		33	8.6	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
Benzo[g,h,i]perylene	ND		330	9.8	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
Benzo[k]fluoranthene	ND		33	6.5	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
Biphenyl	ND		330	4.4	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
bis (2-chloroisopropyl) ether	ND		330	6.0	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
Bis(2-chloroethoxy)methane	ND		330	26	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
Bis(2-chloroethyl)ether	ND		33	12	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
Bis(2-ethylhexyl) phthalate	ND		330	17	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
Butyl benzyl phthalate	ND		330	16	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
Caprolactam	ND		330	51	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
Carbazole	ND		330	13	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
Chrysene	ND		330	5.6	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
Dibenz(a,h)anthracene	ND		33	14	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
Dibenzofuran	ND		330	4.6	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
Diethyl phthalate	ND		330	4.8	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
Dimethyl phthalate	ND		330	75	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
Di-n-butyl phthalate	ND		330	58	ug/Kg		10/31/19 09:11	10/31/19 22:32	1

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QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-195223-1

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

Lab Sample ID: MB 460-651701/1-A

Matrix: Solid

Analysis Batch: 651877

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 651701

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		330	18	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
Fluoranthene	ND		330	12	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
Fluorene	ND		330	4.5	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
Hexachlorobenzene	ND		33	16	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
Hexachlorobutadiene	ND		67	7.0	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
Hexachlorocyclopentadiene	ND		330	29	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
Hexachloroethane	ND		33	11	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
Indeno[1,2,3-cd]pyrene	ND		33	13	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
Isophorone	ND		130	96	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
Naphthalene	ND		330	5.7	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
Nitrobenzene	ND		33	7.9	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
N-Nitrosodi-n-propylamine	ND		33	24	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
N-Nitrosodiphenylamine	ND		330	6.3	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
Pentachlorophenol	ND		270	68	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
Phenanthrene	ND		330	5.8	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
Phenol	ND		330	12	ug/Kg		10/31/19 09:11	10/31/19 22:32	1
Pyrene	ND		330	8.2	ug/Kg		10/31/19 09:11	10/31/19 22:32	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg				10/31/19 09:11	10/31/19 22:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	94		10 - 137	10/31/19 09:11	10/31/19 22:32	1
2-Fluorobiphenyl (Surr)	90		29 - 107	10/31/19 09:11	10/31/19 22:32	1
2-Fluorophenol (Surr)	96		20 - 115	10/31/19 09:11	10/31/19 22:32	1
Nitrobenzene-d5 (Surr)	95		25 - 113	10/31/19 09:11	10/31/19 22:32	1
Phenol-d5 (Surr)	92		28 - 109	10/31/19 09:11	10/31/19 22:32	1
Terphenyl-d14 (Surr)	124	X	27 - 123	10/31/19 09:11	10/31/19 22:32	1

Lab Sample ID: LCS 460-651701/2-A

Matrix: Solid

Analysis Batch: 651877

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 651701

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
2,4,5-Trichlorophenol	3330	2850		ug/Kg		86	60 - 106
2,4,6-Trichlorophenol	3330	2880		ug/Kg		86	62 - 110
2,4-Dichlorophenol	3330	3190		ug/Kg		96	61 - 103
2,4-Dimethylphenol	3330	2930		ug/Kg		88	63 - 101
2,4-Dinitrophenol	6670	4230		ug/Kg		63	56 - 122
2,4-Dinitrotoluene	3330	3090		ug/Kg		93	66 - 122
2,6-Dinitrotoluene	3330	3190		ug/Kg		96	70 - 114
2-Chloronaphthalene	3330	2890		ug/Kg		87	63 - 107
2-Chlorophenol	3330	2910		ug/Kg		87	62 - 97
2-Methylnaphthalene	3330	2900		ug/Kg		87	65 - 104
2-Methylphenol	3330	2940		ug/Kg		88	61 - 103
2-Nitroaniline	3330	3000		ug/Kg		90	57 - 114
2-Nitrophenol	3330	2930		ug/Kg		88	65 - 104
3,3'-Dichlorobenzidine	3330	2310		ug/Kg		69	18 - 88

Eurofins TestAmerica, Edison

QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-195223-1

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

Lab Sample ID: LCS 460-651701/2-A

Matrix: Solid

Analysis Batch: 651877

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 651701

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
3-Nitroaniline	3330	2510		ug/Kg		75	30 - 94
4,6-Dinitro-2-methylphenol	6670	5840		ug/Kg		88	67 - 120
4-Bromophenyl phenyl ether	3330	3100		ug/Kg		93	59 - 122
4-Chloro-3-methylphenol	3330	3040		ug/Kg		91	62 - 111
4-Chloroaniline	3330	2580		ug/Kg		77	18 - 94
4-Chlorophenyl phenyl ether	3330	2910		ug/Kg		87	66 - 110
4-Methylphenol	3330	2810		ug/Kg		84	61 - 105
4-Nitroaniline	3330	2480		ug/Kg		74	49 - 118
4-Nitrophenol	6670	4810		ug/Kg		72	43 - 141
Acenaphthene	3330	2450		ug/Kg		73	62 - 108
Acenaphthylene	3330	2870		ug/Kg		86	67 - 107
Acetophenone	3330	2740		ug/Kg		82	60 - 109
Anthracene	3330	3010		ug/Kg		90	69 - 111
Benzo[a]anthracene	3330	3060		ug/Kg		92	68 - 110
Benzo[a]pyrene	3330	2870		ug/Kg		86	72 - 115
Benzo[b]fluoranthene	3330	3120		ug/Kg		94	69 - 119
Benzo[g,h,i]perylene	3330	2840		ug/Kg		85	54 - 128
Benzo[k]fluoranthene	3330	3010		ug/Kg		90	70 - 115
Biphenyl	3330	2930		ug/Kg		88	64 - 108
bis (2-chloroisopropyl) ether	3330	2750		ug/Kg		83	39 - 122
Bis(2-chloroethoxy)methane	3330	2880		ug/Kg		86	65 - 106
Bis(2-chloroethyl)ether	3330	2850		ug/Kg		85	64 - 105
Bis(2-ethylhexyl) phthalate	3330	3310		ug/Kg		99	63 - 125
Butyl benzyl phthalate	3330	3250		ug/Kg		98	65 - 125
Carbazole	3330	2920		ug/Kg		88	66 - 115
Chrysene	3330	3130		ug/Kg		94	70 - 111
Dibenz(a,h)anthracene	3330	3150		ug/Kg		95	60 - 130
Dibenzofuran	3330	2870		ug/Kg		86	67 - 107
Diethyl phthalate	3330	2820		ug/Kg		85	66 - 117
Dimethyl phthalate	3330	2890		ug/Kg		87	68 - 112
Di-n-butyl phthalate	3330	3010		ug/Kg		90	67 - 119
Di-n-octyl phthalate	3330	3290		ug/Kg		99	57 - 138
Fluoranthene	3330	2960		ug/Kg		89	64 - 114
Fluorene	3330	2840		ug/Kg		85	66 - 110
Hexachlorobenzene	3330	3180		ug/Kg		95	57 - 128
Hexachlorobutadiene	3330	2950		ug/Kg		89	60 - 108
Hexachlorocyclopentadiene	3330	2780		ug/Kg		83	50 - 129
Hexachloroethane	3330	2660		ug/Kg		80	63 - 99
Indeno[1,2,3-cd]pyrene	3330	3080		ug/Kg		92	53 - 137
Isophorone	3330	2940		ug/Kg		88	68 - 111
Naphthalene	3330	2910		ug/Kg		87	65 - 102
Nitrobenzene	3330	3000		ug/Kg		90	66 - 108
N-Nitrosodi-n-propylamine	3330	2820		ug/Kg		84	63 - 117
N-Nitrosodiphenylamine	3330	3070		ug/Kg		92	65 - 114
Pentachlorophenol	6670	4890		ug/Kg		73	56 - 116
Phenanthrene	3330	2960		ug/Kg		89	68 - 111
Phenol	3330	3030		ug/Kg		91	58 - 103
Pyrene	3330	3300		ug/Kg		99	64 - 121

Eurofins TestAmerica, Edison

QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-195223-1

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

Lab Sample ID: LCS 460-651701/2-A

Matrix: Solid

Analysis Batch: 651877

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 651701

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	98		10 - 137
2-Fluorobiphenyl (Surr)	90		29 - 107
2-Fluorophenol (Surr)	94		20 - 115
Nitrobenzene-d5 (Surr)	96		25 - 113
Phenol-d5 (Surr)	96		28 - 109
Terphenyl-d14 (Surr)	119		27 - 123

Lab Sample ID: LCS 460-651701/4-A

Matrix: Solid

Analysis Batch: 651877

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 651701

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Atrazine	6670	5130		ug/Kg		77	62 - 137
Benzaldehyde	6670	6820		ug/Kg		102	52 - 113
Caprolactam	6670	7970		ug/Kg		120	53 - 148

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	112		10 - 137
2-Fluorobiphenyl (Surr)	103		29 - 107
2-Fluorophenol (Surr)	109		20 - 115
Nitrobenzene-d5 (Surr)	110		25 - 113
Phenol-d5 (Surr)	105		28 - 109
Terphenyl-d14 (Surr)	142	X	27 - 123

Lab Sample ID: 460-195223-1 MS

Matrix: Solid

Analysis Batch: 651877

Client Sample ID: PWEXSW03189

Prep Type: Total/NA

Prep Batch: 651701

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	ND		3940	2620		ug/Kg	✱	67	60 - 106
2,4,6-Trichlorophenol	ND	F1	3940	2410	F1	ug/Kg	✱	61	62 - 110
2,4-Dichlorophenol	ND		3940	2730		ug/Kg	✱	69	61 - 103
2,4-Dimethylphenol	ND	F1	3940	2430	F1	ug/Kg	✱	62	63 - 101
2,4-Dinitrophenol	ND	F1	7880	990	F1	ug/Kg	✱	13	56 - 122
2,4-Dinitrotoluene	ND		3940	2620		ug/Kg	✱	67	66 - 122
2,6-Dinitrotoluene	ND		3940	2860		ug/Kg	✱	73	70 - 114
2-Chloronaphthalene	ND		3940	2510		ug/Kg	✱	64	63 - 107
2-Chlorophenol	ND		3940	2540		ug/Kg	✱	65	62 - 97
2-Methylnaphthalene	ND	F1	3940	2480	F1	ug/Kg	✱	63	65 - 104
2-Methylphenol	ND		3940	2610		ug/Kg	✱	66	61 - 103
2-Nitroaniline	ND		3940	2550		ug/Kg	✱	65	57 - 114
2-Nitrophenol	ND	F1	3940	2480	F1	ug/Kg	✱	63	65 - 104
3,3'-Dichlorobenzidine	ND		3940	2550		ug/Kg	✱	65	18 - 88
3-Nitroaniline	ND		3940	2340		ug/Kg	✱	59	30 - 94
4,6-Dinitro-2-methylphenol	ND	F1	7880	2430	F1	ug/Kg	✱	31	67 - 120
4-Bromophenyl phenyl ether	ND		3940	2740		ug/Kg	✱	70	59 - 122
4-Chloro-3-methylphenol	ND		3940	2720		ug/Kg	✱	69	62 - 111
4-Chloroaniline	ND		3940	2580		ug/Kg	✱	66	18 - 94

Eurofins TestAmerica, Edison

QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-195223-1

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

Lab Sample ID: 460-195223-1 MS

Matrix: Solid

Analysis Batch: 651877

Client Sample ID: PWEXSW03189

Prep Type: Total/NA

Prep Batch: 651701

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	ND	F1	3940	2570	F1	ug/Kg	✱	65	66 - 110
4-Methylphenol	ND		3940	2500		ug/Kg	✱	63	61 - 105
4-Nitroaniline	ND		3940	2200		ug/Kg	✱	56	49 - 118
4-Nitrophenol	ND		7880	3920		ug/Kg	✱	50	43 - 141
Acenaphthene	ND	F1	3940	2150	F1	ug/Kg	✱	55	62 - 108
Acenaphthylene	ND	F1	3940	2540	F1	ug/Kg	✱	64	67 - 107
Acetophenone	ND		3940	2460		ug/Kg	✱	62	60 - 109
Anthracene	ND		3940	2720		ug/Kg	✱	69	69 - 111
Atrazine	ND	F1	7880	3800	F1	ug/Kg	✱	48	62 - 137
Benzaldehyde	ND		7880	5490		ug/Kg	✱	70	52 - 113
Benzo[a]anthracene	ND	F1	3940	2620	F1	ug/Kg	✱	67	68 - 110
Benzo[a]pyrene	ND	F1	3940	2630	F1	ug/Kg	✱	67	72 - 115
Benzo[b]fluoranthene	ND		3940	2820		ug/Kg	✱	72	69 - 119
Benzo[g,h,i]perylene	23	J	3940	2670		ug/Kg	✱	67	54 - 128
Benzo[k]fluoranthene	ND		3940	2900		ug/Kg	✱	74	70 - 115
Biphenyl	ND		3940	2530		ug/Kg	✱	64	64 - 108
bis (2-chloroisopropyl) ether	ND		3940	2270		ug/Kg	✱	58	39 - 122
Bis(2-chloroethoxy)methane	ND	F1	3940	2510	F1	ug/Kg	✱	64	65 - 106
Bis(2-chloroethyl)ether	ND	F1	3940	2490	F1	ug/Kg	✱	63	64 - 105
Bis(2-ethylhexyl) phthalate	ND		3940	2640		ug/Kg	✱	67	63 - 125
Butyl benzyl phthalate	ND		3940	2570		ug/Kg	✱	65	65 - 125
Caprolactam	ND		7880	5710		ug/Kg	✱	73	53 - 148
Carbazole	ND	F1	3940	2550	F1	ug/Kg	✱	65	66 - 115
Chrysene	ND		3940	2850		ug/Kg	✱	72	70 - 111
Dibenz(a,h)anthracene	ND		3940	2880		ug/Kg	✱	73	60 - 130
Dibenzofuran	ND	F1	3940	2570	F1	ug/Kg	✱	65	67 - 107
Diethyl phthalate	24	J F1	3940	2440	F1	ug/Kg	✱	61	66 - 117
Dimethyl phthalate	ND	F1	3940	2470	F1	ug/Kg	✱	63	68 - 112
Di-n-butyl phthalate	ND	F1	3940	2500	F1	ug/Kg	✱	64	67 - 119
Di-n-octyl phthalate	ND		3940	2660		ug/Kg	✱	68	57 - 138
Fluoranthene	ND		3940	2540		ug/Kg	✱	65	64 - 114
Fluorene	ND	F1	3940	2550	F1	ug/Kg	✱	65	66 - 110
Hexachlorobenzene	ND		3940	2720		ug/Kg	✱	69	57 - 128
Hexachlorobutadiene	ND		3940	2350		ug/Kg	✱	60	60 - 108
Hexachlorocyclopentadiene	ND		3940	1970		ug/Kg	✱	50	50 - 129
Hexachloroethane	ND	F1	3940	2090	F1	ug/Kg	✱	53	63 - 99
Indeno[1,2,3-cd]pyrene	ND		3940	2850		ug/Kg	✱	72	53 - 137
Isophorone	ND	F1	3940	2530	F1	ug/Kg	✱	64	68 - 111
Naphthalene	ND	F1	3940	2430	F1	ug/Kg	✱	62	65 - 102
Nitrobenzene	ND		3940	2640		ug/Kg	✱	67	66 - 108
N-Nitrosodi-n-propylamine	ND		3940	2480		ug/Kg	✱	63	63 - 117
N-Nitrosodiphenylamine	ND		3940	2640		ug/Kg	✱	67	65 - 114
Pentachlorophenol	ND	F1	7880	4070	F1	ug/Kg	✱	52	56 - 116
Phenanthrene	ND	F1	3940	2630	F1	ug/Kg	✱	67	68 - 111
Phenol	ND		3940	2660		ug/Kg	✱	68	58 - 103
Pyrene	ND		3940	2880		ug/Kg	✱	73	64 - 121

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QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-195223-1

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

Lab Sample ID: 460-195223-1 MS

Matrix: Solid

Analysis Batch: 651877

Client Sample ID: PWEXSW03189

Prep Type: Total/NA

Prep Batch: 651701

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	73		10 - 137
2-Fluorobiphenyl (Surr)	68		29 - 107
2-Fluorophenol (Surr)	74		20 - 115
Nitrobenzene-d5 (Surr)	73		25 - 113
Phenol-d5 (Surr)	74		28 - 109
Terphenyl-d14 (Surr)	90		27 - 123

Lab Sample ID: 460-195223-1 MSD

Matrix: Solid

Analysis Batch: 651877

Client Sample ID: PWEXSW03189

Prep Type: Total/NA

Prep Batch: 651701

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-Trichlorophenol	ND		3940	2510		ug/Kg	☼	64	60 - 106	4	30
2,4,6-Trichlorophenol	ND	F1	3940	2570		ug/Kg	☼	65	62 - 110	6	30
2,4-Dichlorophenol	ND		3940	2790		ug/Kg	☼	71	61 - 103	2	30
2,4-Dimethylphenol	ND	F1	3940	2560		ug/Kg	☼	65	63 - 101	5	30
2,4-Dinitrophenol	ND	F1	7880	855	F1	ug/Kg	☼	11	56 - 122	15	30
2,4-Dinitrotoluene	ND		3940	2840		ug/Kg	☼	72	66 - 122	8	30
2,6-Dinitrotoluene	ND		3940	2930		ug/Kg	☼	75	70 - 114	3	30
2-Chloronaphthalene	ND		3940	2580		ug/Kg	☼	66	63 - 107	3	30
2-Chlorophenol	ND		3940	2610		ug/Kg	☼	66	62 - 97	2	30
2-Methylnaphthalene	ND	F1	3940	2630		ug/Kg	☼	67	65 - 104	6	30
2-Methylphenol	ND		3940	2720		ug/Kg	☼	69	61 - 103	4	30
2-Nitroaniline	ND		3940	2760		ug/Kg	☼	70	57 - 114	8	30
2-Nitrophenol	ND	F1	3940	2590		ug/Kg	☼	66	65 - 104	5	30
3,3'-Dichlorobenzidine	ND		3940	2770		ug/Kg	☼	70	18 - 88	8	30
3-Nitroaniline	ND		3940	2610		ug/Kg	☼	66	30 - 94	11	30
4,6-Dinitro-2-methylphenol	ND	F1	7880	2640	F1	ug/Kg	☼	34	67 - 120	8	30
4-Bromophenyl phenyl ether	ND		3940	2780		ug/Kg	☼	71	59 - 122	2	30
4-Chloro-3-methylphenol	ND		3940	2790		ug/Kg	☼	71	62 - 111	3	30
4-Chloroaniline	ND		3940	2480		ug/Kg	☼	63	18 - 94	4	30
4-Chlorophenyl phenyl ether	ND	F1	3940	2660		ug/Kg	☼	67	66 - 110	3	30
4-Methylphenol	ND		3940	2580		ug/Kg	☼	66	61 - 105	3	30
4-Nitroaniline	ND		3940	2500		ug/Kg	☼	63	49 - 118	13	30
4-Nitrophenol	ND		7880	4270		ug/Kg	☼	54	43 - 141	8	30
Acenaphthene	ND	F1	3940	2250	F1	ug/Kg	☼	57	62 - 108	5	30
Acenaphthylene	ND	F1	3940	2600	F1	ug/Kg	☼	66	67 - 107	3	30
Acetophenone	ND		3940	2530		ug/Kg	☼	64	60 - 109	3	30
Anthracene	ND		3940	2940		ug/Kg	☼	75	69 - 111	8	30
Atrazine	ND	F1	7880	4380	F1	ug/Kg	☼	56	62 - 137	14	30
Benzaldehyde	ND		7880	5660		ug/Kg	☼	72	52 - 113	3	30
Benzo[a]anthracene	ND	F1	3940	2820		ug/Kg	☼	72	68 - 110	7	30
Benzo[a]pyrene	ND	F1	3940	2730	F1	ug/Kg	☼	69	72 - 115	4	30
Benzo[b]fluoranthene	ND		3940	2870		ug/Kg	☼	73	69 - 119	2	30
Benzo[g,h,i]perylene	23	J	3940	2660		ug/Kg	☼	67	54 - 128	0	30
Benzo[k]fluoranthene	ND		3940	3030		ug/Kg	☼	77	70 - 115	4	30
Biphenyl	ND		3940	2600		ug/Kg	☼	66	64 - 108	3	30
bis (2-chloroisopropyl) ether	ND		3940	2400		ug/Kg	☼	61	39 - 122	5	30

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QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-195223-1

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

Lab Sample ID: 460-195223-1 MSD

Matrix: Solid

Analysis Batch: 651877

Client Sample ID: PWEXSW03189

Prep Type: Total/NA

Prep Batch: 651701

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bis(2-chloroethoxy)methane	ND	F1	3940	2620		ug/Kg	☼	67	65 - 106	4	30
Bis(2-chloroethyl)ether	ND	F1	3940	2510		ug/Kg	☼	64	64 - 105	1	30
Bis(2-ethylhexyl) phthalate	ND		3940	3070		ug/Kg	☼	78	63 - 125	15	30
Butyl benzyl phthalate	ND		3940	2970		ug/Kg	☼	75	65 - 125	15	30
Caprolactam	ND		7880	5910		ug/Kg	☼	75	53 - 148	3	30
Carbazole	ND	F1	3940	2790		ug/Kg	☼	71	66 - 115	9	30
Chrysene	ND		3940	2980		ug/Kg	☼	76	70 - 111	4	30
Dibenz(a,h)anthracene	ND		3940	2910		ug/Kg	☼	74	60 - 130	1	30
Dibenzofuran	ND	F1	3940	2660		ug/Kg	☼	68	67 - 107	3	30
Diethyl phthalate	24	J F1	3940	2720		ug/Kg	☼	68	66 - 117	11	30
Dimethyl phthalate	ND	F1	3940	2710		ug/Kg	☼	69	68 - 112	9	30
Di-n-butyl phthalate	ND	F1	3940	2840		ug/Kg	☼	72	67 - 119	12	30
Di-n-octyl phthalate	ND		3940	3120		ug/Kg	☼	79	57 - 138	16	30
Fluoranthene	ND		3940	2790		ug/Kg	☼	71	64 - 114	9	30
Fluorene	ND	F1	3940	2650		ug/Kg	☼	67	66 - 110	4	30
Hexachlorobenzene	ND		3940	2890		ug/Kg	☼	73	57 - 128	6	30
Hexachlorobutadiene	ND		3940	2540		ug/Kg	☼	65	60 - 108	8	30
Hexachlorocyclopentadiene	ND		3940	2170		ug/Kg	☼	55	50 - 129	10	30
Hexachloroethane	ND	F1	3940	2220	F1	ug/Kg	☼	56	63 - 99	6	30
Indeno[1,2,3-cd]pyrene	ND		3940	3000		ug/Kg	☼	76	53 - 137	5	30
Isophorone	ND	F1	3940	2660		ug/Kg	☼	68	68 - 111	5	30
Naphthalene	ND	F1	3940	2580		ug/Kg	☼	65	65 - 102	6	30
Nitrobenzene	ND		3940	2750		ug/Kg	☼	70	66 - 108	4	30
N-Nitrosodi-n-propylamine	ND		3940	2600		ug/Kg	☼	66	63 - 117	5	30
N-Nitrosodiphenylamine	ND		3940	2840		ug/Kg	☼	72	65 - 114	7	30
Pentachlorophenol	ND	F1	7880	3790	F1	ug/Kg	☼	48	56 - 116	7	30
Phenanthrene	ND	F1	3940	2760		ug/Kg	☼	70	68 - 111	5	30
Phenol	ND		3940	2770		ug/Kg	☼	70	58 - 103	4	30
Pyrene	ND		3940	3080		ug/Kg	☼	78	64 - 121	7	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	77		10 - 137
2-Fluorobiphenyl (Surr)	70		29 - 107
2-Fluorophenol (Surr)	72		20 - 115
Nitrobenzene-d5 (Surr)	74		25 - 113
Phenol-d5 (Surr)	74		28 - 109
Terphenyl-d14 (Surr)	95		27 - 123

QC Association Summary

Client: AECOM

Job ID: 460-195223-1

Project/Site: 60584654, Penn Yan Former MGP Phase 2

GC/MS VOA

Prep Batch: 651782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-195223-1	PWEXSW03189	Total/NA	Solid	5035	
460-195223-2	PWEXBM04190	Total/NA	Solid	5035	
460-195223-3	PWEXBM11191	Total/NA	Solid	5035	
460-195223-4	PWEXBM11192	Total/NA	Solid	5035	
460-195223-5	PWEXBM05193	Total/NA	Solid	5035	
460-195223-6	PWEXBM05194	Total/NA	Solid	5035	
LB3 460-651782/1-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 651827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-195223-1	PWEXSW03189	Total/NA	Solid	8260C	651782
460-195223-2	PWEXBM04190	Total/NA	Solid	8260C	651782
460-195223-3	PWEXBM11191	Total/NA	Solid	8260C	651782
460-195223-4	PWEXBM11192	Total/NA	Solid	8260C	651782
460-195223-5	PWEXBM05193	Total/NA	Solid	8260C	651782
460-195223-6	PWEXBM05194	Total/NA	Solid	8260C	651782
LB3 460-651782/1-A	Method Blank	Total/NA	Solid	8260C	651782
MB 460-651827/11	Method Blank	Total/NA	Solid	8260C	
LCS 460-651827/5	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 460-651827/6	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC/MS Semi VOA

Prep Batch: 651701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-195223-1	PWEXSW03189	Total/NA	Solid	3546	
460-195223-2	PWEXBM04190	Total/NA	Solid	3546	
460-195223-3	PWEXBM11191	Total/NA	Solid	3546	
460-195223-4	PWEXBM11192	Total/NA	Solid	3546	
460-195223-5	PWEXBM05193	Total/NA	Solid	3546	
460-195223-6	PWEXBM05194	Total/NA	Solid	3546	
MB 460-651701/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-651701/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 460-651701/4-A	Lab Control Sample	Total/NA	Solid	3546	
460-195223-1 MS	PWEXSW03189	Total/NA	Solid	3546	
460-195223-1 MSD	PWEXSW03189	Total/NA	Solid	3546	

Analysis Batch: 651877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-195223-1	PWEXSW03189	Total/NA	Solid	8270D	651701
460-195223-2	PWEXBM04190	Total/NA	Solid	8270D	651701
460-195223-3	PWEXBM11191	Total/NA	Solid	8270D	651701
460-195223-4	PWEXBM11192	Total/NA	Solid	8270D	651701
460-195223-5	PWEXBM05193	Total/NA	Solid	8270D	651701
460-195223-6	PWEXBM05194	Total/NA	Solid	8270D	651701
MB 460-651701/1-A	Method Blank	Total/NA	Solid	8270D	651701
LCS 460-651701/2-A	Lab Control Sample	Total/NA	Solid	8270D	651701
LCS 460-651701/4-A	Lab Control Sample	Total/NA	Solid	8270D	651701
460-195223-1 MS	PWEXSW03189	Total/NA	Solid	8270D	651701
460-195223-1 MSD	PWEXSW03189	Total/NA	Solid	8270D	651701

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QC Association Summary

Client: AECOM

Job ID: 460-195223-1

Project/Site: 60584654, Penn Yan Former MGP Phase 2

General Chemistry

Analysis Batch: 651677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-195223-1	PWEXSW03189	Total/NA	Solid	Moisture	
460-195223-2	PWEXBM04190	Total/NA	Solid	Moisture	
460-195223-3	PWEXBM11191	Total/NA	Solid	Moisture	
460-195223-4	PWEXBM11192	Total/NA	Solid	Moisture	
460-195223-5	PWEXBM05193	Total/NA	Solid	Moisture	
460-195223-6	PWEXBM05194	Total/NA	Solid	Moisture	

Lab Chronicle

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-195223-1

Client Sample ID: PWEXSW03189

Date Collected: 10/29/19 09:20

Date Received: 10/30/19 16:00

Lab Sample ID: 460-195223-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	651677	10/31/19 07:15	MMC	TAL EDI

Client Sample ID: PWEXSW03189

Date Collected: 10/29/19 09:20

Date Received: 10/30/19 16:00

Lab Sample ID: 460-195223-1

Matrix: Solid

Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			651782	10/31/19 13:10	DBM	TAL EDI
Total/NA	Analysis	8260C		1	651827	11/01/19 02:59	VBP	TAL EDI
Total/NA	Prep	3546			651701	10/31/19 09:11	ZXB	TAL EDI
Total/NA	Analysis	8270D		1	651877	11/01/19 00:46	YAH	TAL EDI

Client Sample ID: PWEXBM04190

Date Collected: 10/29/19 09:35

Date Received: 10/30/19 16:00

Lab Sample ID: 460-195223-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	651677	10/31/19 07:15	MMC	TAL EDI

Client Sample ID: PWEXBM04190

Date Collected: 10/29/19 09:35

Date Received: 10/30/19 16:00

Lab Sample ID: 460-195223-2

Matrix: Solid

Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			651782	10/31/19 13:12	DBM	TAL EDI
Total/NA	Analysis	8260C		1	651827	11/01/19 03:22	VBP	TAL EDI
Total/NA	Prep	3546			651701	10/31/19 09:11	ZXB	TAL EDI
Total/NA	Analysis	8270D		1	651877	11/01/19 01:53	YAH	TAL EDI

Client Sample ID: PWEXBM11191

Date Collected: 10/29/19 09:55

Date Received: 10/30/19 16:00

Lab Sample ID: 460-195223-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	651677	10/31/19 07:15	MMC	TAL EDI

Client Sample ID: PWEXBM11191

Date Collected: 10/29/19 09:55

Date Received: 10/30/19 16:00

Lab Sample ID: 460-195223-3

Matrix: Solid

Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			651782	10/31/19 13:14	DBM	TAL EDI
Total/NA	Analysis	8260C		1	651827	11/01/19 03:46	VBP	TAL EDI
Total/NA	Prep	3546			651701	10/31/19 09:11	ZXB	TAL EDI
Total/NA	Analysis	8270D		1	651877	11/01/19 02:16	YAH	TAL EDI

Eurofins TestAmerica, Edison

Lab Chronicle

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-195223-1

Client Sample ID: PWEXBM11192

Lab Sample ID: 460-195223-4

Date Collected: 10/29/19 10:05

Matrix: Solid

Date Received: 10/30/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	651677	10/31/19 07:15	MMC	TAL EDI

Client Sample ID: PWEXBM11192

Lab Sample ID: 460-195223-4

Date Collected: 10/29/19 10:05

Matrix: Solid

Date Received: 10/30/19 16:00

Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			651782	10/31/19 13:16	DBM	TAL EDI
Total/NA	Analysis	8260C		1	651827	11/01/19 04:09	VBP	TAL EDI
Total/NA	Prep	3546			651701	10/31/19 09:11	ZXB	TAL EDI
Total/NA	Analysis	8270D		1	651877	11/01/19 02:38	YAH	TAL EDI

Client Sample ID: PWEXBM05193

Lab Sample ID: 460-195223-5

Date Collected: 10/29/19 13:25

Matrix: Solid

Date Received: 10/30/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	651677	10/31/19 07:15	MMC	TAL EDI

Client Sample ID: PWEXBM05193

Lab Sample ID: 460-195223-5

Date Collected: 10/29/19 13:25

Matrix: Solid

Date Received: 10/30/19 16:00

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			651782	10/31/19 13:18	DBM	TAL EDI
Total/NA	Analysis	8260C		1	651827	11/01/19 04:32	VBP	TAL EDI
Total/NA	Prep	3546			651701	10/31/19 09:11	ZXB	TAL EDI
Total/NA	Analysis	8270D		1	651877	11/01/19 03:00	YAH	TAL EDI

Client Sample ID: PWEXBM05194

Lab Sample ID: 460-195223-6

Date Collected: 10/29/19 13:40

Matrix: Solid

Date Received: 10/30/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	651677	10/31/19 07:15	MMC	TAL EDI

Client Sample ID: PWEXBM05194

Lab Sample ID: 460-195223-6

Date Collected: 10/29/19 13:40

Matrix: Solid

Date Received: 10/30/19 16:00

Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			651782	10/31/19 13:20	DBM	TAL EDI
Total/NA	Analysis	8260C		1	651827	11/01/19 04:56	VBP	TAL EDI
Total/NA	Prep	3546			651701	10/31/19 09:11	ZXB	TAL EDI
Total/NA	Analysis	8270D		1	651877	11/01/19 03:23	YAH	TAL EDI

Eurofins TestAmerica, Edison

Lab Chronicle

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-195223-1

Laboratory References:

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

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Accreditation/Certification Summary

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-195223-1

Laboratory: Eurofins TestAmerica, Edison

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-20

Method Summary

Client: AECOM

Job ID: 460-195223-1

Project/Site: 60584654, Penn Yan Former MGP Phase 2

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL EDI
Moisture	Percent Moisture	EPA	TAL EDI
3546	Microwave Extraction	SW846	TAL EDI
5035	Closed System Purge and Trap	SW846	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: AECOM

Job ID: 460-195223-1

Project/Site: 60584654, Penn Yan Former MGP Phase 2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-195223-1	PWEXSW03189	Solid	10/29/19 09:20	10/30/19 16:00	
460-195223-2	PWEXBM04190	Solid	10/29/19 09:35	10/30/19 16:00	
460-195223-3	PWEXBM11191	Solid	10/29/19 09:55	10/30/19 16:00	
460-195223-4	PWEXBM11192	Solid	10/29/19 10:05	10/30/19 16:00	
460-195223-5	PWEXBM05193	Solid	10/29/19 13:25	10/30/19 16:00	
460-195223-6	PWEXBM05194	Solid	10/29/19 13:40	10/30/19 16:00	

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: AECOM

Job Number: 460-195223-1

Login Number: 195223

List Number: 1

Creator: Meyers, Gary

List Source: Eurofins TestAmerica, Edison

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	645514
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 sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	