

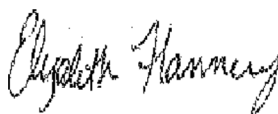
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Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	6
Detection Summary	8
Client Sample Results	11
Surrogate Summary	39
QC Sample Results	42
QC Association Summary	84
Lab Chronicle	90
Certification Summary	94
Method Summary	96
Sample Summary	97
Chain of Custody	98
Receipt Checklists	101



Definitions/Glossary

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

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

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present

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Definitions/Glossary

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Colliers Engineering and Design Inc
Project: City of Chester

Job ID: 460-318705-1

Job ID: 460-318705-1

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Job Narrative 460-318705-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 1/13/2025 7:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.1°C and 3.1°C.

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) associated with batch 460-1016782 recovered above the upper control limits for Bromoform (biased high), Chloromethane and Methyl acetate (biased low). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 460-1016782/4).

Method 8260D: The laboratory control sample (LCS) for analytical batch 460-1016782 recovered outside control limits for the following analytes: 2-Butanone (MEK), 2-Hexanone (MBK) and Bromoform. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D_DKQP: The continuing calibration verification (CCV) analyzed in batch 460-1017079 was outside the method criteria for Bromoform (biased low). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

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

GC/MS Semi VOA

Method 8270E: The continuing calibration verification (CCV) analyzed in batch 460-1016721 was outside the method criteria for the following analyte(s): Benzaldehyde. 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 8270E: The continuing calibration verification (CCV) analyzed in batch 460-1016492 was outside the method criteria for the following analyte(s): Benzaldehyde. 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 8270E_DKQP: The continuing calibration verification (CCV) analyzed in batch 460-1016768 was outside the method criteria for the following analyte(s): Benzaldehyde. 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 8270E_DKQP: The laboratory control sample (LCS) and/or lab control sample duplicate (LCSD) associated with preparation batch 460-1016733 and analytical batch 460-1016768 was outside DKQP recovery criteria but within laboratory generated limits for the following analytes 3,3'-Dichlorobenzidine. The data has been reported for the following samples: (LCS 460-1016733/2-A) and (LCSD 460-1016733/3-A)

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

PCBs

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Case Narrative

Client: Colliers Engineering and Design Inc
Project: City of Chester

Job ID: 460-318705-1

Job ID: 460-318705-1 (Continued)

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Method 8082A: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 460-1016942 and analytical batch 460-1016461 recovered outside control limits for the following analytes: Aroclor 1016 and Aroclor 1260 on the primary column. These analytes were biased high in the LCS and LCSD and were not detected in the associated samples; therefore, the data have been reported. (LCS 460-1016942/2-A) and (LCSD 460-1016942/3-A)

Method 8082A: The Tetrachloro-m-xylene surrogate recovery for the following LCS and LCSD were outside acceptance limits (high biased) on the primary column: (LCS 460-1016942/2-A) and (LCSD 460-1016942/3-A). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

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

Pesticides

Method 8081B: The continuing calibration verification (CCV) associated with batch 460-1016754 recovered above the upper control limit for 4,4'-DDT and Methoxychlor on the secondary column. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 460-1016754/3).

Method 8081B: The Tetrachloro-m-xylene surrogate recovery for the following samples was outside acceptance limits (high biased) on the primary column due to matrix interference: TW-2 (460-318705-6). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

Method 8081B_DKQP: The continuing calibration verification (CCV) associated with batch 460-1016538 recovered above the upper control limit for 4,4'-DDT and Methoxychlor on the secondary column. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 460-1016538/3).

Method 8081B_DKQP: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 460-1016479 and analytical batch 460-1016538 recovered outside control limits for the following analytes: 4,4'-DDT on the secondary column. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. (LCSD 460-1016479/3-A).

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

Metals

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

General Chemistry

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

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Detection Summary

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

Client Sample ID: TB-1

Lab Sample ID: 460-318705-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	13100		18.9	5.2	mg/Kg	1	✱	6020B	Total/NA
Arsenic	0.43	J	0.94	0.097	mg/Kg	1	✱	6020B	Total/NA
Barium	152		1.9	0.14	mg/Kg	1	✱	6020B	Total/NA
Beryllium	0.44		0.38	0.054	mg/Kg	1	✱	6020B	Total/NA
Calcium	824		94.4	38.4	mg/Kg	1	✱	6020B	Total/NA
Chromium	6.1		1.9	0.86	mg/Kg	1	✱	6020B	Total/NA
Cobalt	10.4		1.9	0.14	mg/Kg	1	✱	6020B	Total/NA
Copper	1.6	J	1.9	0.35	mg/Kg	1	✱	6020B	Total/NA
Iron	13400		56.7	19.1	mg/Kg	1	✱	6020B	Total/NA
Lead	2.2		0.57	0.19	mg/Kg	1	✱	6020B	Total/NA
Magnesium	6950		94.4	9.6	mg/Kg	1	✱	6020B	Total/NA
Manganese	87.0		3.8	0.38	mg/Kg	1	✱	6020B	Total/NA
Nickel	12.6		1.9	0.44	mg/Kg	1	✱	6020B	Total/NA
Potassium	4440		94.4	15.3	mg/Kg	1	✱	6020B	Total/NA
Sodium	191		94.4	43.2	mg/Kg	1	✱	6020B	Total/NA
Thallium	0.097	J	0.38	0.039	mg/Kg	1	✱	6020B	Total/NA
Vanadium	22.8		1.9	0.19	mg/Kg	1	✱	6020B	Total/NA
Zinc	15.2		7.6	2.9	mg/Kg	1	✱	6020B	Total/NA

Client Sample ID: TB-2

Lab Sample ID: 460-318705-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	11900		19.1	5.2	mg/Kg	1	✱	6020B	Total/NA
Arsenic	0.81	J	0.96	0.098	mg/Kg	1	✱	6020B	Total/NA
Barium	115		1.9	0.14	mg/Kg	1	✱	6020B	Total/NA
Beryllium	0.84		0.38	0.054	mg/Kg	1	✱	6020B	Total/NA
Calcium	1420		95.5	38.9	mg/Kg	1	✱	6020B	Total/NA
Chromium	5.4		1.9	0.87	mg/Kg	1	✱	6020B	Total/NA
Cobalt	7.8		1.9	0.14	mg/Kg	1	✱	6020B	Total/NA
Copper	3.0		1.9	0.35	mg/Kg	1	✱	6020B	Total/NA
Iron	15400		57.3	19.3	mg/Kg	1	✱	6020B	Total/NA
Lead	3.5		0.57	0.19	mg/Kg	1	✱	6020B	Total/NA
Magnesium	6430		95.5	9.7	mg/Kg	1	✱	6020B	Total/NA
Manganese	334		3.8	0.39	mg/Kg	1	✱	6020B	Total/NA
Nickel	15.4		1.9	0.45	mg/Kg	1	✱	6020B	Total/NA
Potassium	8200		95.5	15.5	mg/Kg	1	✱	6020B	Total/NA
Sodium	74.8	J	95.5	43.7	mg/Kg	1	✱	6020B	Total/NA
Thallium	0.40		0.38	0.039	mg/Kg	1	✱	6020B	Total/NA
Vanadium	26.2		1.9	0.20	mg/Kg	1	✱	6020B	Total/NA
Zinc	59.4		7.6	2.9	mg/Kg	1	✱	6020B	Total/NA

Client Sample ID: TB-3

Lab Sample ID: 460-318705-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	9560		21.8	6.0	mg/Kg	1	✱	6020B	Total/NA
Arsenic	1.5		1.1	0.11	mg/Kg	1	✱	6020B	Total/NA
Barium	173		2.2	0.16	mg/Kg	1	✱	6020B	Total/NA
Beryllium	1.3		0.44	0.062	mg/Kg	1	✱	6020B	Total/NA
Calcium	1400		109	44.4	mg/Kg	1	✱	6020B	Total/NA
Chromium	4.4		2.2	0.99	mg/Kg	1	✱	6020B	Total/NA
Cobalt	11.5		2.2	0.16	mg/Kg	1	✱	6020B	Total/NA
Copper	5.9		2.2	0.40	mg/Kg	1	✱	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Edison

Detection Summary

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

Client Sample ID: TB-3 (Continued)

Lab Sample ID: 460-318705-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	25000		65.4	22.0	mg/Kg	1	✱	6020B	Total/NA
Lead	8.7		0.65	0.22	mg/Kg	1	✱	6020B	Total/NA
Magnesium	5130		109	11.1	mg/Kg	1	✱	6020B	Total/NA
Manganese	2370		43.6	4.4	mg/Kg	10	✱	6020B	Total/NA
Nickel	17.8		2.2	0.51	mg/Kg	1	✱	6020B	Total/NA
Potassium	5520		109	17.7	mg/Kg	1	✱	6020B	Total/NA
Selenium	0.21	J	1.4	0.14	mg/Kg	1	✱	6020B	Total/NA
Sodium	229		109	49.8	mg/Kg	1	✱	6020B	Total/NA
Thallium	0.34	J	0.44	0.045	mg/Kg	1	✱	6020B	Total/NA
Vanadium	14.5		2.2	0.22	mg/Kg	1	✱	6020B	Total/NA
Zinc	53.6		8.7	3.3	mg/Kg	1	✱	6020B	Total/NA

Client Sample ID: TB-4

Lab Sample ID: 460-318705-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	12900		20.9	5.7	mg/Kg	1	✱	6020B	Total/NA
Arsenic	5.1		1.0	0.11	mg/Kg	1	✱	6020B	Total/NA
Barium	62.2		2.1	0.15	mg/Kg	1	✱	6020B	Total/NA
Beryllium	0.72		0.42	0.059	mg/Kg	1	✱	6020B	Total/NA
Calcium	1420		104	42.5	mg/Kg	1	✱	6020B	Total/NA
Chromium	30.5		2.1	0.95	mg/Kg	1	✱	6020B	Total/NA
Cobalt	5.2		2.1	0.15	mg/Kg	1	✱	6020B	Total/NA
Copper	11.4		2.1	0.38	mg/Kg	1	✱	6020B	Total/NA
Iron	23600		62.6	21.1	mg/Kg	1	✱	6020B	Total/NA
Lead	8.3		0.63	0.21	mg/Kg	1	✱	6020B	Total/NA
Magnesium	2490		104	10.6	mg/Kg	1	✱	6020B	Total/NA
Manganese	113		4.2	0.42	mg/Kg	1	✱	6020B	Total/NA
Nickel	12.5		2.1	0.49	mg/Kg	1	✱	6020B	Total/NA
Potassium	844		104	16.9	mg/Kg	1	✱	6020B	Total/NA
Selenium	0.28	J	1.3	0.13	mg/Kg	1	✱	6020B	Total/NA
Sodium	890		104	47.7	mg/Kg	1	✱	6020B	Total/NA
Thallium	0.11	J	0.42	0.043	mg/Kg	1	✱	6020B	Total/NA
Vanadium	32.7		2.1	0.21	mg/Kg	1	✱	6020B	Total/NA
Zinc	30.5		8.3	3.2	mg/Kg	1	✱	6020B	Total/NA

Client Sample ID: TW-1

Lab Sample ID: 460-318705-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	63.8		0.040	0.020	mg/L	1		6020B	Total/NA
Antimony	0.00090	J	0.0020	0.00076	mg/L	1		6020B	Total/NA
Arsenic	0.032		0.0020	0.00089	mg/L	1		6020B	Total/NA
Barium	0.56		0.0040	0.00091	mg/L	1		6020B	Total/NA
Beryllium	0.0052		0.00080	0.00013	mg/L	1		6020B	Total/NA
Cadmium	0.00062	J	0.0020	0.00039	mg/L	1		6020B	Total/NA
Calcium	48.1		0.50	0.054	mg/L	1		6020B	Total/NA
Chromium	0.22		0.0040	0.0025	mg/L	1		6020B	Total/NA
Cobalt	0.064		0.0040	0.00071	mg/L	1		6020B	Total/NA
Copper	0.11		0.0040	0.0025	mg/L	1		6020B	Total/NA
Iron	161		0.12	0.058	mg/L	1		6020B	Total/NA
Lead	0.11		0.0012	0.00084	mg/L	1		6020B	Total/NA
Magnesium	38.0		0.20	0.047	mg/L	1		6020B	Total/NA
Manganese	6.7		0.0080	0.0015	mg/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Edison

Detection Summary

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

Client Sample ID: TW-1 (Continued)

Lab Sample ID: 460-318705-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.11		0.0040	0.00091	mg/L	1		6020B	Total/NA
Potassium	10.6		0.20	0.11	mg/L	1		6020B	Total/NA
Selenium	0.0017	J	0.0025	0.00059	mg/L	1		6020B	Total/NA
Sodium	191		0.50	0.22	mg/L	1		6020B	Total/NA
Thallium	0.00024	J	0.00080	0.00021	mg/L	1		6020B	Total/NA
Vanadium	0.19		0.0040	0.00068	mg/L	1		6020B	Total/NA
Zinc	0.31		0.016	0.0065	mg/L	1		6020B	Total/NA
Mercury	0.00017	J	0.00020	0.000091	mg/L	1		7470A	Total/NA

Client Sample ID: TW-2

Lab Sample ID: 460-318705-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0059		0.0050	0.0044	mg/L	1		8260D	Total/NA
Aluminum	26.9		0.040	0.020	mg/L	1		6020B	Total/NA
Arsenic	0.0051		0.0020	0.00089	mg/L	1		6020B	Total/NA
Barium	0.65		0.0040	0.00091	mg/L	1		6020B	Total/NA
Beryllium	0.0036		0.00080	0.00013	mg/L	1		6020B	Total/NA
Cadmium	0.012		0.0020	0.00039	mg/L	1		6020B	Total/NA
Calcium	338		0.50	0.054	mg/L	1		6020B	Total/NA
Chromium	0.057		0.0040	0.0025	mg/L	1		6020B	Total/NA
Cobalt	0.098		0.0040	0.00071	mg/L	1		6020B	Total/NA
Copper	0.055		0.0040	0.0025	mg/L	1		6020B	Total/NA
Iron	112		0.12	0.058	mg/L	1		6020B	Total/NA
Lead	0.043		0.0012	0.00084	mg/L	1		6020B	Total/NA
Magnesium	232		0.20	0.047	mg/L	1		6020B	Total/NA
Manganese	10		0.0080	0.0015	mg/L	1		6020B	Total/NA
Nickel	0.22		0.0040	0.00091	mg/L	1		6020B	Total/NA
Potassium	43.7		0.20	0.11	mg/L	1		6020B	Total/NA
Sodium	122		0.50	0.22	mg/L	1		6020B	Total/NA
Thallium	0.00025	J	0.00080	0.00021	mg/L	1		6020B	Total/NA
Vanadium	0.059		0.0040	0.00068	mg/L	1		6020B	Total/NA
Zinc	0.28		0.016	0.0065	mg/L	1		6020B	Total/NA
Mercury	0.00011	J	0.00020	0.000091	mg/L	1		7470A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Edison

Client Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

Client Sample ID: TB-1

Lab Sample ID: 460-318705-1

Date Collected: 01/13/25 13:00

Matrix: Solid

Date Received: 01/13/25 19:00

Percent Solids: 99.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00026	U	0.0011	0.00026	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
1,1,2,2-Tetrachloroethane	0.00024	U	0.0011	0.00024	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00034	U	0.0011	0.00034	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
1,1,2-Trichloroethane	0.00020	U	0.0011	0.00020	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
1,1-Dichloroethane	0.00023	U	0.0011	0.00023	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
1,1-Dichloroethene	0.00025	U	0.0011	0.00025	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
1,2,3-Trichlorobenzene	0.00020	U	0.0011	0.00020	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
1,2,4-Trichlorobenzene	0.00040	U	0.0011	0.00040	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
1,2-Dibromo-3-Chloropropane	0.00052	U	0.0011	0.00052	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
1,2-Dichlorobenzene	0.00040	U	0.0011	0.00040	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
1,2-Dichloroethane	0.00033	U	0.0011	0.00033	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
1,2-Dichloropropane	0.00047	U	0.0011	0.00047	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
1,3-Dichlorobenzene	0.00041	U	0.0011	0.00041	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
1,4-Dichlorobenzene	0.00025	U	0.0011	0.00025	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
1,4-Dioxane	0.010	U	0.11	0.010	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
2-Butanone (MEK)	0.00041	U	0.0056	0.00041	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
2-Hexanone (MBK)	0.0019	U	0.0056	0.0019	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
4-Methyl-2-pentanone (MIBK)	0.0017	U	0.0056	0.0017	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
Acetone	0.0064	U	0.0067	0.0064	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
Benzene	0.00029	U	0.0011	0.00029	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
Bromoform	0.00048	U	0.0011	0.00048	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
Bromomethane	0.0011	U	0.0022	0.0011	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
Carbon disulfide	0.00030	U	0.0011	0.00030	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
Carbon tetrachloride	0.00043	U	0.0011	0.00043	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
Chlorobenzene	0.00020	U	0.0011	0.00020	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
Chlorobromomethane	0.00031	U	0.0011	0.00031	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
Chlorodibromomethane	0.00022	U	0.0011	0.00022	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
Chloroethane	0.00058	U	0.0011	0.00058	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
Chloroform	0.0011	U	0.0011	0.0011	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
Chloromethane	0.00049	U	0.0011	0.00049	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
cis-1,2-Dichloroethene	0.00040	U	0.0011	0.00040	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
cis-1,3-Dichloropropene	0.00031	U	0.0011	0.00031	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
Cyclohexane	0.00025	U	0.0011	0.00025	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
Dichlorobromomethane	0.00029	U	0.0011	0.00029	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
Dichlorodifluoromethane	0.00038	U	0.0011	0.00038	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
Ethylbenzene	0.00022	U	0.0011	0.00022	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
1,2-Dibromoethane	0.00020	U	0.0011	0.00020	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
Isopropylbenzene	0.00032	U	0.0011	0.00032	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
Methyl acetate	0.0048	U	0.0056	0.0048	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
Methyl tert-butyl ether	0.00057	U	0.0011	0.00057	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
Methylcyclohexane	0.00056	U	0.0011	0.00056	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
Methylene Chloride	0.0013	U	0.0022	0.0013	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
m-Xylene & p-Xylene	0.00019	U	0.0011	0.00019	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
o-Xylene	0.00022	U	0.0011	0.00022	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
Styrene	0.00031	U	0.0011	0.00031	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
Tetrachloroethene	0.00034	U	0.0011	0.00034	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
Toluene	0.00026	U	0.0011	0.00026	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
trans-1,2-Dichloroethene	0.00028	U	0.0011	0.00028	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1
trans-1,3-Dichloropropene	0.00030	U	0.0011	0.00030	mg/Kg	☆	01/14/25 19:15	01/18/25 01:50	1

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Client Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

Client Sample ID: TB-1

Lab Sample ID: 460-318705-1

Date Collected: 01/13/25 13:00

Matrix: Solid

Date Received: 01/13/25 19:00

Percent Solids: 99.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	0.00036	U	0.0011	0.00036	mg/Kg	☼	01/14/25 19:15	01/18/25 01:50	1
Trichlorofluoromethane	0.00045	U	0.0011	0.00045	mg/Kg	☼	01/14/25 19:15	01/18/25 01:50	1
Vinyl chloride	0.00061	U	0.0011	0.00061	mg/Kg	☼	01/14/25 19:15	01/18/25 01:50	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		mg/Kg	☼		N/A	01/14/25 19:15	01/18/25 01:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 130	01/14/25 19:15	01/18/25 01:50	1
4-Bromofluorobenzene	100		70 - 130	01/14/25 19:15	01/18/25 01:50	1
Dibromofluoromethane (Surr)	99		70 - 130	01/14/25 19:15	01/18/25 01:50	1
Toluene-d8 (Surr)	98		70 - 130	01/14/25 19:15	01/18/25 01:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	☼	01/15/25 20:16	01/16/25 08:03	1
1,2,4,5-Tetrachlorobenzene	0.010	U	0.33	0.010	mg/Kg	☼	01/15/25 20:16	01/16/25 08:03	1
2,2'-oxybis[1-chloropropane]	0.020	U	0.33	0.020	mg/Kg	☼	01/15/25 20:16	01/16/25 08:03	1
2,3,4,6-Tetrachlorophenol	0.023	U	0.33	0.023	mg/Kg	☼	01/15/25 20:16	01/16/25 08:03	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/15/25 20:16	01/16/25 08:03	1
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	☼	01/15/25 20:16	01/16/25 08:03	1
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg	☼	01/15/25 20:16	01/16/25 08:03	1
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	☼	01/15/25 20:16	01/16/25 08:03	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	☼	01/15/25 20:16	01/16/25 08:03	1
2,4-Dinitrotoluene	0.036	U	0.067	0.036	mg/Kg	☼	01/15/25 20:16	01/16/25 08:03	1
2,6-Dinitrotoluene	0.024	U	0.067	0.024	mg/Kg	☼	01/15/25 20:16	01/16/25 08:03	1
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg	☼	01/15/25 20:16	01/16/25 08:03	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	☼	01/15/25 20:16	01/16/25 08:03	1
2-Methylnaphthalene	0.0093	U	0.33	0.0093	mg/Kg	☼	01/15/25 20:16	01/16/25 08:03	1
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg	☼	01/15/25 20:16	01/16/25 08:03	1
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg	☼	01/15/25 20:16	01/16/25 08:03	1
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg	☼	01/15/25 20:16	01/16/25 08:03	1
3,3'-Dichlorobenzidine	0.050	U *	0.13	0.050	mg/Kg	☼	01/15/25 20:16	01/16/25 08:03	1
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg	☼	01/15/25 20:16	01/16/25 08:03	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☼	01/15/25 20:16	01/16/25 08:03	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	☼	01/15/25 20:16	01/16/25 08:03	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	☼	01/15/25 20:16	01/16/25 08:03	1
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	☼	01/15/25 20:16	01/16/25 08:03	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	☼	01/15/25 20:16	01/16/25 08:03	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	☼	01/15/25 20:16	01/16/25 08:03	1
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg	☼	01/15/25 20:16	01/16/25 08:03	1
4-Nitrophenol	0.054	U	0.67	0.054	mg/Kg	☼	01/15/25 20:16	01/16/25 08:03	1
Acenaphthene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/15/25 20:16	01/16/25 08:03	1
Acenaphthylene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/15/25 20:16	01/16/25 08:03	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg	☼	01/15/25 20:16	01/16/25 08:03	1
Anthracene	0.010	U	0.33	0.010	mg/Kg	☼	01/15/25 20:16	01/16/25 08:03	1
Atrazine	0.020	U	0.13	0.020	mg/Kg	☼	01/15/25 20:16	01/16/25 08:03	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg	☼	01/15/25 20:16	01/16/25 08:03	1
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg	☼	01/15/25 20:16	01/16/25 08:03	1
Benzo[a]pyrene	0.0089	U	0.033	0.0089	mg/Kg	☼	01/15/25 20:16	01/16/25 08:03	1

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Client Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

Client Sample ID: TB-1

Lab Sample ID: 460-318705-1

Date Collected: 01/13/25 13:00

Matrix: Solid

Date Received: 01/13/25 19:00

Percent Solids: 99.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	0.0086	U	0.033	0.0086	mg/Kg	☆	01/15/25 20:16	01/16/25 08:03	1
Benzo[g,h,i]perylene	0.0098	U	0.33	0.0098	mg/Kg	☆	01/15/25 20:16	01/16/25 08:03	1
Benzo[k]fluoranthene	0.0065	U	0.033	0.0065	mg/Kg	☆	01/15/25 20:16	01/16/25 08:03	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	☆	01/15/25 20:16	01/16/25 08:03	1
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	☆	01/15/25 20:16	01/16/25 08:03	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	☆	01/15/25 20:16	01/16/25 08:03	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	☆	01/15/25 20:16	01/16/25 08:03	1
Caprolactam	0.052	U	0.33	0.052	mg/Kg	☆	01/15/25 20:16	01/16/25 08:03	1
Carbazole	0.013	U	0.33	0.013	mg/Kg	☆	01/15/25 20:16	01/16/25 08:03	1
Chrysene	0.014	U	0.33	0.014	mg/Kg	☆	01/15/25 20:16	01/16/25 08:03	1
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg	☆	01/15/25 20:16	01/16/25 08:03	1
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	☆	01/15/25 20:16	01/16/25 08:03	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	☆	01/15/25 20:16	01/16/25 08:03	1
Dimethyl phthalate	0.076	U	0.33	0.076	mg/Kg	☆	01/15/25 20:16	01/16/25 08:03	1
Di-n-butyl phthalate	0.013	U	0.33	0.013	mg/Kg	☆	01/15/25 20:16	01/16/25 08:03	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	☆	01/15/25 20:16	01/16/25 08:03	1
Fluoranthene	0.012	U	0.33	0.012	mg/Kg	☆	01/15/25 20:16	01/16/25 08:03	1
Fluorene	0.0097	U	0.33	0.0097	mg/Kg	☆	01/15/25 20:16	01/16/25 08:03	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	☆	01/15/25 20:16	01/16/25 08:03	1
Hexachlorobutadiene	0.0071	U	0.067	0.0071	mg/Kg	☆	01/15/25 20:16	01/16/25 08:03	1
Hexachlorocyclopentadiene	0.029	U	0.33	0.029	mg/Kg	☆	01/15/25 20:16	01/16/25 08:03	1
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg	☆	01/15/25 20:16	01/16/25 08:03	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg	☆	01/15/25 20:16	01/16/25 08:03	1
Isophorone	0.096	U	0.13	0.096	mg/Kg	☆	01/15/25 20:16	01/16/25 08:03	1
Naphthalene	0.0058	U	0.33	0.0058	mg/Kg	☆	01/15/25 20:16	01/16/25 08:03	1
Nitrobenzene	0.018	U	0.033	0.018	mg/Kg	☆	01/15/25 20:16	01/16/25 08:03	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	☆	01/15/25 20:16	01/16/25 08:03	1
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg	☆	01/15/25 20:16	01/16/25 08:03	1
Pentachlorophenol	0.068	U	0.27	0.068	mg/Kg	☆	01/15/25 20:16	01/16/25 08:03	1
Phenanthrene	0.014	U	0.33	0.014	mg/Kg	☆	01/15/25 20:16	01/16/25 08:03	1
Phenol	0.012	U	0.33	0.012	mg/Kg	☆	01/15/25 20:16	01/16/25 08:03	1
Pyrene	0.0083	U	0.33	0.0083	mg/Kg	☆	01/15/25 20:16	01/16/25 08:03	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		mg/Kg	☆		N/A	01/15/25 20:16	01/16/25 08:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	91		30 - 130	01/15/25 20:16	01/16/25 08:03	1
2-Fluorobiphenyl	85		30 - 130	01/15/25 20:16	01/16/25 08:03	1
2-Fluorophenol (Surr)	96		30 - 130	01/15/25 20:16	01/16/25 08:03	1
Nitrobenzene-d5 (Surr)	92		30 - 130	01/15/25 20:16	01/16/25 08:03	1
Phenol-d5 (Surr)	93		30 - 130	01/15/25 20:16	01/16/25 08:03	1
Terphenyl-d14 (Surr)	93		30 - 130	01/15/25 20:16	01/16/25 08:03	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0010	U	0.0067	0.0010	mg/Kg	☆	01/14/25 17:11	01/15/25 07:06	1
alpha-BHC	0.00068	U	0.0020	0.00068	mg/Kg	☆	01/14/25 17:11	01/15/25 07:06	1
beta-BHC	0.00075	U	0.0020	0.00075	mg/Kg	☆	01/14/25 17:11	01/15/25 07:06	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg	☆	01/14/25 17:11	01/15/25 07:06	1

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Client Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

Client Sample ID: TB-1

Lab Sample ID: 460-318705-1

Date Collected: 01/13/25 13:00

Matrix: Solid

Date Received: 01/13/25 19:00

Percent Solids: 99.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg	☆	01/14/25 17:11	01/15/25 07:06	1
Chlordane (technical)	0.016	U	0.067	0.016	mg/Kg	☆	01/14/25 17:11	01/15/25 07:06	1
4,4'-DDD	0.0011	U	0.0067	0.0011	mg/Kg	☆	01/14/25 17:11	01/15/25 07:06	1
4,4'-DDE	0.00079	U	0.0067	0.00079	mg/Kg	☆	01/14/25 17:11	01/15/25 07:06	1
4,4'-DDT	0.0012	U	0.0067	0.0012	mg/Kg	☆	01/14/25 17:11	01/15/25 07:06	1
Dieldrin	0.00088	U	0.0020	0.00088	mg/Kg	☆	01/14/25 17:11	01/15/25 07:06	1
Endosulfan I	0.0010	U	0.0067	0.0010	mg/Kg	☆	01/14/25 17:11	01/15/25 07:06	1
Endosulfan II	0.0017	U	0.0067	0.0017	mg/Kg	☆	01/14/25 17:11	01/15/25 07:06	1
Endosulfan sulfate	0.00084	U	0.0067	0.00084	mg/Kg	☆	01/14/25 17:11	01/15/25 07:06	1
Endrin	0.00097	U	0.0067	0.00097	mg/Kg	☆	01/14/25 17:11	01/15/25 07:06	1
Endrin aldehyde	0.0016	U	0.0067	0.0016	mg/Kg	☆	01/14/25 17:11	01/15/25 07:06	1
Endrin ketone	0.0013	U	0.0067	0.0013	mg/Kg	☆	01/14/25 17:11	01/15/25 07:06	1
Heptachlor	0.00079	U	0.0067	0.00079	mg/Kg	☆	01/14/25 17:11	01/15/25 07:06	1
Heptachlor epoxide	0.0010	U	0.0067	0.0010	mg/Kg	☆	01/14/25 17:11	01/15/25 07:06	1
Methoxychlor	0.0015	U	0.0067	0.0015	mg/Kg	☆	01/14/25 17:11	01/15/25 07:06	1
Toxaphene	0.024	U	0.067	0.024	mg/Kg	☆	01/14/25 17:11	01/15/25 07:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	49		30 - 150	01/14/25 17:11	01/15/25 07:06	1
Tetrachloro-m-xylene	52		30 - 150	01/14/25 17:11	01/15/25 07:06	1
DCB Decachlorobiphenyl	61		30 - 150	01/14/25 17:11	01/15/25 07:06	1
DCB Decachlorobiphenyl	64		30 - 150	01/14/25 17:11	01/15/25 07:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg	☆	01/14/25 17:06	01/15/25 03:21	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg	☆	01/14/25 17:06	01/15/25 03:21	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg	☆	01/14/25 17:06	01/15/25 03:21	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg	☆	01/14/25 17:06	01/15/25 03:21	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg	☆	01/14/25 17:06	01/15/25 03:21	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg	☆	01/14/25 17:06	01/15/25 03:21	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg	☆	01/14/25 17:06	01/15/25 03:21	1
PCB-1262	0.018	U	0.067	0.018	mg/Kg	☆	01/14/25 17:06	01/15/25 03:21	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg	☆	01/14/25 17:06	01/15/25 03:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	76		30 - 150	01/14/25 17:06	01/15/25 03:21	1
DCB Decachlorobiphenyl	72		30 - 150	01/14/25 17:06	01/15/25 03:21	1
Tetrachloro-m-xylene	62		30 - 150	01/14/25 17:06	01/15/25 03:21	1
Tetrachloro-m-xylene	64		30 - 150	01/14/25 17:06	01/15/25 03:21	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13100		18.9	5.2	mg/Kg	☆	01/17/25 07:23	01/17/25 17:24	1
Antimony	0.14	U	0.94	0.14	mg/Kg	☆	01/17/25 07:23	01/17/25 17:24	1
Arsenic	0.43	J	0.94	0.097	mg/Kg	☆	01/17/25 07:23	01/17/25 17:24	1
Barium	152		1.9	0.14	mg/Kg	☆	01/17/25 07:23	01/17/25 17:24	1
Beryllium	0.44		0.38	0.054	mg/Kg	☆	01/17/25 07:23	01/17/25 17:24	1
Cadmium	0.11	U	0.94	0.11	mg/Kg	☆	01/17/25 07:23	01/17/25 17:24	1
Calcium	824		94.4	38.4	mg/Kg	☆	01/17/25 07:23	01/17/25 17:24	1

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Client Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

Client Sample ID: TB-1

Lab Sample ID: 460-318705-1

Date Collected: 01/13/25 13:00

Matrix: Solid

Date Received: 01/13/25 19:00

Percent Solids: 99.0

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	6.1		1.9	0.86	mg/Kg	☆	01/17/25 07:23	01/17/25 17:24	1
Cobalt	10.4		1.9	0.14	mg/Kg	☆	01/17/25 07:23	01/17/25 17:24	1
Copper	1.6	J	1.9	0.35	mg/Kg	☆	01/17/25 07:23	01/17/25 17:24	1
Iron	13400		56.7	19.1	mg/Kg	☆	01/17/25 07:23	01/17/25 17:24	1
Lead	2.2		0.57	0.19	mg/Kg	☆	01/17/25 07:23	01/17/25 17:24	1
Magnesium	6950		94.4	9.6	mg/Kg	☆	01/17/25 07:23	01/17/25 17:24	1
Manganese	87.0		3.8	0.38	mg/Kg	☆	01/17/25 07:23	01/17/25 17:24	1
Nickel	12.6		1.9	0.44	mg/Kg	☆	01/17/25 07:23	01/17/25 17:24	1
Potassium	4440		94.4	15.3	mg/Kg	☆	01/17/25 07:23	01/17/25 17:24	1
Selenium	0.12	U	1.2	0.12	mg/Kg	☆	01/17/25 07:23	01/17/25 17:24	1
Silver	0.084	U	0.38	0.084	mg/Kg	☆	01/17/25 07:23	01/17/25 17:24	1
Sodium	191		94.4	43.2	mg/Kg	☆	01/17/25 07:23	01/17/25 17:24	1
Thallium	0.097	J	0.38	0.039	mg/Kg	☆	01/17/25 07:23	01/17/25 17:24	1
Vanadium	22.8		1.9	0.19	mg/Kg	☆	01/17/25 07:23	01/17/25 17:24	1
Zinc	15.2		7.6	2.9	mg/Kg	☆	01/17/25 07:23	01/17/25 17:24	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0073	U	0.016	0.0073	mg/Kg	☆	01/15/25 00:42	01/15/25 05:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.11	U	0.20	0.11	mg/Kg	☆	01/15/25 17:48	01/15/25 21:57	1
Percent Moisture (EPA Moisture)	1.0		1.0	1.0	%			01/14/25 17:16	1
Percent Solids (EPA Moisture)	99.0		1.0	1.0	%			01/14/25 17:16	1

Client Sample ID: TB-2

Lab Sample ID: 460-318705-2

Date Collected: 01/13/25 10:30

Matrix: Solid

Date Received: 01/13/25 19:00

Percent Solids: 95.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00022	U	0.00094	0.00022	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
1,1,1,2-Tetrachloroethane	0.00020	U	0.00094	0.00020	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00028	U	0.00094	0.00028	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
1,1,2-Trichloroethane	0.00017	U	0.00094	0.00017	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
1,1-Dichloroethane	0.00019	U	0.00094	0.00019	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
1,1-Dichloroethene	0.00021	U	0.00094	0.00021	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
1,2,3-Trichlorobenzene	0.00017	U	0.00094	0.00017	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
1,2,4-Trichlorobenzene	0.00034	U	0.00094	0.00034	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
1,2-Dibromo-3-Chloropropane	0.00043	U	0.00094	0.00043	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
1,2-Dichlorobenzene	0.00034	U	0.00094	0.00034	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
1,2-Dichloroethane	0.00028	U	0.00094	0.00028	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
1,2-Dichloropropane	0.00040	U	0.00094	0.00040	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
1,3-Dichlorobenzene	0.00034	U	0.00094	0.00034	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
1,4-Dichlorobenzene	0.00021	U	0.00094	0.00021	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
1,4-Dioxane	0.0086	U	0.094	0.0086	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
2-Butanone (MEK)	0.00035	U	0.0047	0.00035	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
2-Hexanone (MBK)	0.0016	U	0.0047	0.0016	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
4-Methyl-2-pentanone (MIBK)	0.0015	U	0.0047	0.0015	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1

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Client Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

Client Sample ID: TB-2

Lab Sample ID: 460-318705-2

Date Collected: 01/13/25 10:30

Matrix: Solid

Date Received: 01/13/25 19:00

Percent Solids: 95.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0054	U	0.0056	0.0054	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
Benzene	0.00024	U	0.00094	0.00024	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
Bromoform	0.00040	U	0.00094	0.00040	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
Bromomethane	0.00094	U	0.0019	0.00094	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
Carbon disulfide	0.00025	U	0.00094	0.00025	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
Carbon tetrachloride	0.00036	U	0.00094	0.00036	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
Chlorobenzene	0.00017	U	0.00094	0.00017	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
Chlorobromomethane	0.00026	U	0.00094	0.00026	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
Chlorodibromomethane	0.00018	U	0.00094	0.00018	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
Chloroethane	0.00049	U	0.00094	0.00049	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
Chloroform	0.00091	U	0.00094	0.00091	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
Chloromethane	0.00041	U	0.00094	0.00041	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
cis-1,2-Dichloroethene	0.00034	U	0.00094	0.00034	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
cis-1,3-Dichloropropene	0.00026	U	0.00094	0.00026	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
Cyclohexane	0.00021	U	0.00094	0.00021	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
Dichlorobromomethane	0.00024	U	0.00094	0.00024	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
Dichlorodifluoromethane	0.00032	U	0.00094	0.00032	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
Ethylbenzene	0.00019	U	0.00094	0.00019	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
1,2-Dibromoethane	0.00017	U	0.00094	0.00017	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
Isopropylbenzene	0.00027	U	0.00094	0.00027	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
Methyl acetate	0.0040	U	0.0047	0.0040	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
Methyl tert-butyl ether	0.00048	U	0.00094	0.00048	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
Methylcyclohexane	0.00047	U	0.00094	0.00047	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
Methylene Chloride	0.0011	U	0.0019	0.0011	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
m-Xylene & p-Xylene	0.00016	U	0.00094	0.00016	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
o-Xylene	0.00018	U	0.00094	0.00018	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
Styrene	0.00026	U	0.00094	0.00026	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
Tetrachloroethene	0.00029	U	0.00094	0.00029	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
Toluene	0.00022	U	0.00094	0.00022	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
trans-1,2-Dichloroethene	0.00023	U	0.00094	0.00023	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
trans-1,3-Dichloropropene	0.00025	U	0.00094	0.00025	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
Trichloroethene	0.00030	U	0.00094	0.00030	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
Trichlorofluoromethane	0.00038	U	0.00094	0.00038	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1
Vinyl chloride	0.00051	U	0.00094	0.00051	mg/Kg	☆	01/14/25 19:15	01/18/25 02:15	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		mg/Kg	☆		N/A	01/14/25 19:15	01/18/25 02:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 130	01/14/25 19:15	01/18/25 02:15	1
4-Bromofluorobenzene	101		70 - 130	01/14/25 19:15	01/18/25 02:15	1
Dibromofluoromethane (Surr)	102		70 - 130	01/14/25 19:15	01/18/25 02:15	1
Toluene-d8 (Surr)	99		70 - 130	01/14/25 19:15	01/18/25 02:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.35	0.012	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
1,2,4,5-Tetrachlorobenzene	0.011	U	0.35	0.011	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
2,2'-oxybis[1-chloropropane]	0.021	U	0.35	0.021	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
2,3,4,6-Tetrachlorophenol	0.024	U	0.35	0.024	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1

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Client Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

Client Sample ID: TB-2

Lab Sample ID: 460-318705-2

Date Collected: 01/13/25 10:30

Matrix: Solid

Date Received: 01/13/25 19:00

Percent Solids: 95.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	0.035	U	0.35	0.035	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
2,4,6-Trichlorophenol	0.045	U	0.14	0.045	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
2,4-Dichlorophenol	0.022	U	0.14	0.022	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
2,4-Dimethylphenol	0.041	U	0.35	0.041	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
2,4-Dinitrophenol	0.17	U	0.28	0.17	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
2,4-Dinitrotoluene	0.037	U	0.070	0.037	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
2,6-Dinitrotoluene	0.025	U	0.070	0.025	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
2-Chloronaphthalene	0.016	U	0.35	0.016	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
2-Chlorophenol	0.012	U	0.35	0.012	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
2-Methylnaphthalene	0.0097	U	0.35	0.0097	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
2-Methylphenol	0.013	U	0.35	0.013	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
2-Nitroaniline	0.026	U	0.35	0.026	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
2-Nitrophenol	0.035	U	0.35	0.035	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
3,3'-Dichlorobenzidine	0.052	U *	0.14	0.052	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
3-Nitroaniline	0.082	U	0.35	0.082	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
4,6-Dinitro-2-methylphenol	0.14	U	0.28	0.14	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
4-Bromophenyl phenyl ether	0.014	U	0.35	0.014	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
4-Chloro-3-methylphenol	0.019	U	0.35	0.019	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
4-Chloroaniline	0.062	U	0.35	0.062	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
4-Chlorophenyl phenyl ether	0.012	U	0.35	0.012	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
4-Methylphenol	0.022	U	0.35	0.022	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
4-Nitroaniline	0.040	U	0.35	0.040	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
4-Nitrophenol	0.057	U	0.70	0.057	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
Acenaphthene	0.0099	U	0.35	0.0099	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
Acenaphthylene	0.0099	U	0.35	0.0099	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
Acetophenone	0.017	U	0.35	0.017	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
Anthracene	0.011	U	0.35	0.011	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
Atrazine	0.020	U	0.14	0.020	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
Benzaldehyde	0.057	U	0.35	0.057	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
Benzo[a]anthracene	0.026	U	0.035	0.026	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
Benzo[a]pyrene	0.0092	U	0.035	0.0092	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
Benzo[b]fluoranthene	0.0090	U	0.035	0.0090	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
Benzo[g,h,i]perylene	0.010	U	0.35	0.010	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
Benzo[k]fluoranthene	0.0068	U	0.035	0.0068	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
Bis(2-chloroethoxy)methane	0.027	U	0.35	0.027	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
Bis(2-chloroethyl)ether	0.012	U	0.035	0.012	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.35	0.018	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
Butyl benzyl phthalate	0.016	U	0.35	0.016	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
Caprolactam	0.054	U	0.35	0.054	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
Carbazole	0.013	U	0.35	0.013	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
Chrysene	0.015	U	0.35	0.015	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
Dibenz(a,h)anthracene	0.015	U	0.035	0.015	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
Dibenzofuran	0.012	U	0.35	0.012	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
Diethyl phthalate	0.011	U	0.35	0.011	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
Dimethyl phthalate	0.079	U	0.35	0.079	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
Di-n-butyl phthalate	0.013	U	0.35	0.013	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
Di-n-octyl phthalate	0.018	U	0.35	0.018	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
Fluoranthene	0.012	U	0.35	0.012	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1
Fluorene	0.010	U	0.35	0.010	mg/Kg	☆	01/15/25 20:16	01/16/25 07:41	1

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Client Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

Client Sample ID: TB-2

Lab Sample ID: 460-318705-2

Date Collected: 01/13/25 10:30

Matrix: Solid

Date Received: 01/13/25 19:00

Percent Solids: 95.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	0.016	U	0.035	0.016	mg/Kg	✱	01/15/25 20:16	01/16/25 07:41	1
Hexachlorobutadiene	0.0074	U	0.070	0.0074	mg/Kg	✱	01/15/25 20:16	01/16/25 07:41	1
Hexachlorocyclopentadiene	0.030	U	0.35	0.030	mg/Kg	✱	01/15/25 20:16	01/16/25 07:41	1
Hexachloroethane	0.012	U	0.035	0.012	mg/Kg	✱	01/15/25 20:16	01/16/25 07:41	1
Indeno[1,2,3-cd]pyrene	0.014	U	0.035	0.014	mg/Kg	✱	01/15/25 20:16	01/16/25 07:41	1
Isophorone	0.10	U	0.14	0.10	mg/Kg	✱	01/15/25 20:16	01/16/25 07:41	1
Naphthalene	0.0060	U	0.35	0.0060	mg/Kg	✱	01/15/25 20:16	01/16/25 07:41	1
Nitrobenzene	0.019	U	0.035	0.019	mg/Kg	✱	01/15/25 20:16	01/16/25 07:41	1
N-Nitrosodi-n-propylamine	0.025	U	0.035	0.025	mg/Kg	✱	01/15/25 20:16	01/16/25 07:41	1
N-Nitrosodiphenylamine	0.029	U	0.35	0.029	mg/Kg	✱	01/15/25 20:16	01/16/25 07:41	1
Pentachlorophenol	0.071	U	0.28	0.071	mg/Kg	✱	01/15/25 20:16	01/16/25 07:41	1
Phenanthrene	0.014	U	0.35	0.014	mg/Kg	✱	01/15/25 20:16	01/16/25 07:41	1
Phenol	0.013	U	0.35	0.013	mg/Kg	✱	01/15/25 20:16	01/16/25 07:41	1
Pyrene	0.0086	U	0.35	0.0086	mg/Kg	✱	01/15/25 20:16	01/16/25 07:41	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		mg/Kg	✱		N/A	01/15/25 20:16	01/16/25 07:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	93		30 - 130	01/15/25 20:16	01/16/25 07:41	1
2-Fluorobiphenyl	85		30 - 130	01/15/25 20:16	01/16/25 07:41	1
2-Fluorophenol (Surr)	94		30 - 130	01/15/25 20:16	01/16/25 07:41	1
Nitrobenzene-d5 (Surr)	91		30 - 130	01/15/25 20:16	01/16/25 07:41	1
Phenol-d5 (Surr)	92		30 - 130	01/15/25 20:16	01/16/25 07:41	1
Terphenyl-d14 (Surr)	93		30 - 130	01/15/25 20:16	01/16/25 07:41	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0011	U	0.0070	0.0011	mg/Kg	✱	01/14/25 17:11	01/15/25 07:19	1
alpha-BHC	0.00071	U	0.0021	0.00071	mg/Kg	✱	01/14/25 17:11	01/15/25 07:19	1
beta-BHC	0.00079	U	0.0021	0.00079	mg/Kg	✱	01/14/25 17:11	01/15/25 07:19	1
delta-BHC	0.00043	U	0.0021	0.00043	mg/Kg	✱	01/14/25 17:11	01/15/25 07:19	1
gamma-BHC (Lindane)	0.00065	U	0.0021	0.00065	mg/Kg	✱	01/14/25 17:11	01/15/25 07:19	1
Chlordane (technical)	0.017	U	0.070	0.017	mg/Kg	✱	01/14/25 17:11	01/15/25 07:19	1
4,4'-DDD	0.0012	U	0.0070	0.0012	mg/Kg	✱	01/14/25 17:11	01/15/25 07:19	1
4,4'-DDE	0.00083	U	0.0070	0.00083	mg/Kg	✱	01/14/25 17:11	01/15/25 07:19	1
4,4'-DDT	0.0013	U	0.0070	0.0013	mg/Kg	✱	01/14/25 17:11	01/15/25 07:19	1
Dieldrin	0.00091	U	0.0021	0.00091	mg/Kg	✱	01/14/25 17:11	01/15/25 07:19	1
Endosulfan I	0.0011	U	0.0070	0.0011	mg/Kg	✱	01/14/25 17:11	01/15/25 07:19	1
Endosulfan II	0.0018	U	0.0070	0.0018	mg/Kg	✱	01/14/25 17:11	01/15/25 07:19	1
Endosulfan sulfate	0.00088	U	0.0070	0.00088	mg/Kg	✱	01/14/25 17:11	01/15/25 07:19	1
Endrin	0.0010	U	0.0070	0.0010	mg/Kg	✱	01/14/25 17:11	01/15/25 07:19	1
Endrin aldehyde	0.0017	U	0.0070	0.0017	mg/Kg	✱	01/14/25 17:11	01/15/25 07:19	1
Endrin ketone	0.0014	U	0.0070	0.0014	mg/Kg	✱	01/14/25 17:11	01/15/25 07:19	1
Heptachlor	0.00083	U	0.0070	0.00083	mg/Kg	✱	01/14/25 17:11	01/15/25 07:19	1
Heptachlor epoxide	0.0010	U	0.0070	0.0010	mg/Kg	✱	01/14/25 17:11	01/15/25 07:19	1
Methoxychlor	0.0016	U	0.0070	0.0016	mg/Kg	✱	01/14/25 17:11	01/15/25 07:19	1
Toxaphene	0.025	U	0.070	0.025	mg/Kg	✱	01/14/25 17:11	01/15/25 07:19	1

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Client Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

Client Sample ID: TB-2

Lab Sample ID: 460-318705-2

Date Collected: 01/13/25 10:30

Matrix: Solid

Date Received: 01/13/25 19:00

Percent Solids: 95.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	83		30 - 150	01/14/25 17:11	01/15/25 07:19	1
Tetrachloro-m-xylene	87		30 - 150	01/14/25 17:11	01/15/25 07:19	1
DCB Decachlorobiphenyl	102		30 - 150	01/14/25 17:11	01/15/25 07:19	1
DCB Decachlorobiphenyl	101		30 - 150	01/14/25 17:11	01/15/25 07:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.019	U	0.070	0.019	mg/Kg	☆	01/14/25 17:06	01/15/25 03:37	1
Aroclor 1221	0.019	U	0.070	0.019	mg/Kg	☆	01/14/25 17:06	01/15/25 03:37	1
Aroclor 1232	0.019	U	0.070	0.019	mg/Kg	☆	01/14/25 17:06	01/15/25 03:37	1
Aroclor 1242	0.019	U	0.070	0.019	mg/Kg	☆	01/14/25 17:06	01/15/25 03:37	1
Aroclor 1248	0.019	U	0.070	0.019	mg/Kg	☆	01/14/25 17:06	01/15/25 03:37	1
Aroclor 1254	0.019	U	0.070	0.019	mg/Kg	☆	01/14/25 17:06	01/15/25 03:37	1
Aroclor 1260	0.019	U	0.070	0.019	mg/Kg	☆	01/14/25 17:06	01/15/25 03:37	1
PCB-1262	0.019	U	0.070	0.019	mg/Kg	☆	01/14/25 17:06	01/15/25 03:37	1
Aroclor 1268	0.019	U	0.070	0.019	mg/Kg	☆	01/14/25 17:06	01/15/25 03:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	108		30 - 150	01/14/25 17:06	01/15/25 03:37	1
DCB Decachlorobiphenyl	105		30 - 150	01/14/25 17:06	01/15/25 03:37	1
Tetrachloro-m-xylene	94		30 - 150	01/14/25 17:06	01/15/25 03:37	1
Tetrachloro-m-xylene	95		30 - 150	01/14/25 17:06	01/15/25 03:37	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11900		19.1	5.2	mg/Kg	☆	01/17/25 07:23	01/17/25 17:27	1
Antimony	0.14	U	0.96	0.14	mg/Kg	☆	01/17/25 07:23	01/17/25 17:27	1
Arsenic	0.81	J	0.96	0.098	mg/Kg	☆	01/17/25 07:23	01/17/25 17:27	1
Barium	115		1.9	0.14	mg/Kg	☆	01/17/25 07:23	01/17/25 17:27	1
Beryllium	0.84		0.38	0.054	mg/Kg	☆	01/17/25 07:23	01/17/25 17:27	1
Cadmium	0.11	U	0.96	0.11	mg/Kg	☆	01/17/25 07:23	01/17/25 17:27	1
Calcium	1420		95.5	38.9	mg/Kg	☆	01/17/25 07:23	01/17/25 17:27	1
Chromium	5.4		1.9	0.87	mg/Kg	☆	01/17/25 07:23	01/17/25 17:27	1
Cobalt	7.8		1.9	0.14	mg/Kg	☆	01/17/25 07:23	01/17/25 17:27	1
Copper	3.0		1.9	0.35	mg/Kg	☆	01/17/25 07:23	01/17/25 17:27	1
Iron	15400		57.3	19.3	mg/Kg	☆	01/17/25 07:23	01/17/25 17:27	1
Lead	3.5		0.57	0.19	mg/Kg	☆	01/17/25 07:23	01/17/25 17:27	1
Magnesium	6430		95.5	9.7	mg/Kg	☆	01/17/25 07:23	01/17/25 17:27	1
Manganese	334		3.8	0.39	mg/Kg	☆	01/17/25 07:23	01/17/25 17:27	1
Nickel	15.4		1.9	0.45	mg/Kg	☆	01/17/25 07:23	01/17/25 17:27	1
Potassium	8200		95.5	15.5	mg/Kg	☆	01/17/25 07:23	01/17/25 17:27	1
Selenium	0.12	U	1.2	0.12	mg/Kg	☆	01/17/25 07:23	01/17/25 17:27	1
Silver	0.085	U	0.38	0.085	mg/Kg	☆	01/17/25 07:23	01/17/25 17:27	1
Sodium	74.8	J	95.5	43.7	mg/Kg	☆	01/17/25 07:23	01/17/25 17:27	1
Thallium	0.40		0.38	0.039	mg/Kg	☆	01/17/25 07:23	01/17/25 17:27	1
Vanadium	26.2		1.9	0.20	mg/Kg	☆	01/17/25 07:23	01/17/25 17:27	1
Zinc	59.4		7.6	2.9	mg/Kg	☆	01/17/25 07:23	01/17/25 17:27	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0084	U	0.018	0.0084	mg/Kg	☆	01/15/25 00:42	01/15/25 05:13	1

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Client Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

Client Sample ID: TB-2

Lab Sample ID: 460-318705-2

Date Collected: 01/13/25 10:30

Matrix: Solid

Date Received: 01/13/25 19:00

Percent Solids: 95.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.13	U	0.24	0.13	mg/Kg	☆	01/15/25 17:48	01/15/25 21:58	1
Percent Moisture (EPA Moisture)	4.8		1.0	1.0	%			01/14/25 17:16	1
Percent Solids (EPA Moisture)	95.2		1.0	1.0	%			01/14/25 17:16	1

Client Sample ID: TB-3

Lab Sample ID: 460-318705-3

Date Collected: 01/13/25 11:30

Matrix: Solid

Date Received: 01/13/25 19:00

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00028	U	0.0012	0.00028	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
1,1,2,2-Tetrachloroethane	0.00026	U	0.0012	0.00026	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00037	U	0.0012	0.00037	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
1,1,2-Trichloroethane	0.00022	U	0.0012	0.00022	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
1,1-Dichloroethane	0.00025	U	0.0012	0.00025	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
1,1-Dichloroethene	0.00027	U	0.0012	0.00027	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
1,2,3-Trichlorobenzene	0.00022	U	0.0012	0.00022	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
1,2,4-Trichlorobenzene	0.00043	U	0.0012	0.00043	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
1,2-Dibromo-3-Chloropropane	0.00056	U	0.0012	0.00056	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
1,2-Dichlorobenzene	0.00044	U	0.0012	0.00044	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
1,2-Dichloroethane	0.00036	U	0.0012	0.00036	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
1,2-Dichloropropane	0.00051	U	0.0012	0.00051	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
1,3-Dichlorobenzene	0.00044	U	0.0012	0.00044	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
1,4-Dichlorobenzene	0.00027	U	0.0012	0.00027	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
1,4-Dioxane	0.011	U	0.12	0.011	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
2-Butanone (MEK)	0.00045	U	0.0061	0.00045	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
2-Hexanone (MBK)	0.0021	U	0.0061	0.0021	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
4-Methyl-2-pentanone (MIBK)	0.0019	U	0.0061	0.0019	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
Acetone	0.0069	U	0.0073	0.0069	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
Benzene	0.00031	U	0.0012	0.00031	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
Bromoform	0.00052	U	0.0012	0.00052	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
Bromomethane	0.0012	U	0.0024	0.0012	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
Carbon disulfide	0.00032	U	0.0012	0.00032	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
Carbon tetrachloride	0.00047	U	0.0012	0.00047	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
Chlorobenzene	0.00021	U	0.0012	0.00021	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
Chlorobromomethane	0.00034	U	0.0012	0.00034	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
Chlorodibromomethane	0.00024	U	0.0012	0.00024	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
Chloroethane	0.00063	U	0.0012	0.00063	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
Chloroform	0.0012	U	0.0012	0.0012	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
Chloromethane	0.00053	U	0.0012	0.00053	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
cis-1,2-Dichloroethene	0.00043	U	0.0012	0.00043	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
cis-1,3-Dichloropropene	0.00033	U	0.0012	0.00033	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
Cyclohexane	0.00027	U	0.0012	0.00027	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
Dichlorobromomethane	0.00031	U	0.0012	0.00031	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
Dichlorodifluoromethane	0.00041	U	0.0012	0.00041	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
Ethylbenzene	0.00024	U	0.0012	0.00024	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
1,2-Dibromoethane	0.00022	U	0.0012	0.00022	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
Isopropylbenzene	0.00035	U	0.0012	0.00035	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
Methyl acetate	0.0052	U	0.0061	0.0052	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
Methyl tert-butyl ether	0.00062	U	0.0012	0.00062	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1

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Client Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

Client Sample ID: TB-3

Lab Sample ID: 460-318705-3

Date Collected: 01/13/25 11:30

Matrix: Solid

Date Received: 01/13/25 19:00

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	0.00061	U	0.0012	0.00061	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
Methylene Chloride	0.0014	U	0.0024	0.0014	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
m-Xylene & p-Xylene	0.00021	U	0.0012	0.00021	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
o-Xylene	0.00024	U	0.0012	0.00024	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
Styrene	0.00034	U	0.0012	0.00034	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
Tetrachloroethene	0.00037	U	0.0012	0.00037	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
Toluene	0.00028	U	0.0012	0.00028	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
trans-1,2-Dichloroethene	0.00030	U	0.0012	0.00030	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
trans-1,3-Dichloropropene	0.00032	U	0.0012	0.00032	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
Trichloroethene	0.00039	U	0.0012	0.00039	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
Trichlorofluoromethane	0.00049	U	0.0012	0.00049	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1
Vinyl chloride	0.00066	U	0.0012	0.00066	mg/Kg	☆	01/14/25 19:16	01/18/25 02:39	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		mg/Kg	☆		N/A	01/14/25 19:16	01/18/25 02:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		70 - 130	01/14/25 19:16	01/18/25 02:39	1
4-Bromofluorobenzene	103		70 - 130	01/14/25 19:16	01/18/25 02:39	1
Dibromofluoromethane (Surr)	104		70 - 130	01/14/25 19:16	01/18/25 02:39	1
Toluene-d8 (Surr)	98		70 - 130	01/14/25 19:16	01/18/25 02:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.014	U	0.39	0.014	mg/Kg	☆	01/15/25 20:16	01/16/25 08:24	1
1,2,4,5-Tetrachlorobenzene	0.012	U	0.39	0.012	mg/Kg	☆	01/15/25 20:16	01/16/25 08:24	1
2,2'-oxybis[1-chloropropane]	0.024	U	0.39	0.024	mg/Kg	☆	01/15/25 20:16	01/16/25 08:24	1
2,3,4,6-Tetrachlorophenol	0.027	U	0.39	0.027	mg/Kg	☆	01/15/25 20:16	01/16/25 08:24	1
2,4,5-Trichlorophenol	0.040	U	0.39	0.040	mg/Kg	☆	01/15/25 20:16	01/16/25 08:24	1
2,4,6-Trichlorophenol	0.051	U	0.16	0.051	mg/Kg	☆	01/15/25 20:16	01/16/25 08:24	1
2,4-Dichlorophenol	0.025	U	0.16	0.025	mg/Kg	☆	01/15/25 20:16	01/16/25 08:24	1
2,4-Dimethylphenol	0.047	U	0.39	0.047	mg/Kg	☆	01/15/25 20:16	01/16/25 08:24	1
2,4-Dinitrophenol	0.19	U	0.32	0.19	mg/Kg	☆	01/15/25 20:16	01/16/25 08:24	1
2,4-Dinitrotoluene	0.043	U	0.080	0.043	mg/Kg	☆	01/15/25 20:16	01/16/25 08:24	1
2,6-Dinitrotoluene	0.029	U	0.080	0.029	mg/Kg	☆	01/15/25 20:16	01/16/25 08:24	1
2-Chloronaphthalene	0.018	U	0.39	0.018	mg/Kg	☆	01/15/25 20:16	01/16/25 08:24	1
2-Chlorophenol	0.014	U	0.39	0.014	mg/Kg	☆	01/15/25 20:16	01/16/25 08:24	1
2-Methylnaphthalene	0.011	U	0.39	0.011	mg/Kg	☆	01/15/25 20:16	01/16/25 08:24	1
2-Methylphenol	0.015	U	0.39	0.015	mg/Kg	☆	01/15/25 20:16	01/16/25 08:24	1
2-Nitroaniline	0.030	U	0.39	0.030	mg/Kg	☆	01/15/25 20:16	01/16/25 08:24	1
2-Nitrophenol	0.040	U	0.39	0.040	mg/Kg	☆	01/15/25 20:16	01/16/25 08:24	1
3,3'-Dichlorobenzidine	0.060	U *-	0.16	0.060	mg/Kg	☆	01/15/25 20:16	01/16/25 08:24	1
3-Nitroaniline	0.094	U	0.39	0.094	mg/Kg	☆	01/15/25 20:16	01/16/25 08:24	1
4,6-Dinitro-2-methylphenol	0.16	U	0.32	0.16	mg/Kg	☆	01/15/25 20:16	01/16/25 08:24	1
4-Bromophenyl phenyl ether	0.016	U	0.39	0.016	mg/Kg	☆	01/15/25 20:16	01/16/25 08:24	1
4-Chloro-3-methylphenol	0.022	U	0.39	0.022	mg/Kg	☆	01/15/25 20:16	01/16/25 08:24	1
4-Chloroaniline	0.070	U	0.39	0.070	mg/Kg	☆	01/15/25 20:16	01/16/25 08:24	1
4-Chlorophenyl phenyl ether	0.014	U	0.39	0.014	mg/Kg	☆	01/15/25 20:16	01/16/25 08:24	1
4-Methylphenol	0.025	U	0.39	0.025	mg/Kg	☆	01/15/25 20:16	01/16/25 08:24	1
4-Nitroaniline	0.045	U	0.39	0.045	mg/Kg	☆	01/15/25 20:16	01/16/25 08:24	1

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Client Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

Client Sample ID: TB-3

Lab Sample ID: 460-318705-3

Date Collected: 01/13/25 11:30

Matrix: Solid

Date Received: 01/13/25 19:00

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	0.064	U	0.80	0.064	mg/Kg	☼	01/15/25 20:16	01/16/25 08:24	1
Acenaphthene	0.011	U	0.39	0.011	mg/Kg	☼	01/15/25 20:16	01/16/25 08:24	1
Acenaphthylene	0.011	U	0.39	0.011	mg/Kg	☼	01/15/25 20:16	01/16/25 08:24	1
Acetophenone	0.019	U	0.39	0.019	mg/Kg	☼	01/15/25 20:16	01/16/25 08:24	1
Anthracene	0.012	U	0.39	0.012	mg/Kg	☼	01/15/25 20:16	01/16/25 08:24	1
Atrazine	0.023	U	0.16	0.023	mg/Kg	☼	01/15/25 20:16	01/16/25 08:24	1
Benzaldehyde	0.065	U	0.39	0.065	mg/Kg	☼	01/15/25 20:16	01/16/25 08:24	1
Benzo[a]anthracene	0.030	U	0.039	0.030	mg/Kg	☼	01/15/25 20:16	01/16/25 08:24	1
Benzo[a]pyrene	0.011	U	0.039	0.011	mg/Kg	☼	01/15/25 20:16	01/16/25 08:24	1
Benzo[b]fluoranthene	0.010	U	0.039	0.010	mg/Kg	☼	01/15/25 20:16	01/16/25 08:24	1
Benzo[g,h,i]perylene	0.012	U	0.39	0.012	mg/Kg	☼	01/15/25 20:16	01/16/25 08:24	1
Benzo[k]fluoranthene	0.0078	U	0.039	0.0078	mg/Kg	☼	01/15/25 20:16	01/16/25 08:24	1
Bis(2-chloroethoxy)methane	0.031	U	0.39	0.031	mg/Kg	☼	01/15/25 20:16	01/16/25 08:24	1
Bis(2-chloroethyl)ether	0.014	U	0.039	0.014	mg/Kg	☼	01/15/25 20:16	01/16/25 08:24	1
Bis(2-ethylhexyl) phthalate	0.021	U	0.39	0.021	mg/Kg	☼	01/15/25 20:16	01/16/25 08:24	1
Butyl benzyl phthalate	0.019	U	0.39	0.019	mg/Kg	☼	01/15/25 20:16	01/16/25 08:24	1
Caprolactam	0.062	U	0.39	0.062	mg/Kg	☼	01/15/25 20:16	01/16/25 08:24	1
Carbazole	0.015	U	0.39	0.015	mg/Kg	☼	01/15/25 20:16	01/16/25 08:24	1
Chrysene	0.017	U	0.39	0.017	mg/Kg	☼	01/15/25 20:16	01/16/25 08:24	1
Dibenz(a,h)anthracene	0.017	U	0.039	0.017	mg/Kg	☼	01/15/25 20:16	01/16/25 08:24	1
Dibenzofuran	0.013	U	0.39	0.013	mg/Kg	☼	01/15/25 20:16	01/16/25 08:24	1
Diethyl phthalate	0.013	U	0.39	0.013	mg/Kg	☼	01/15/25 20:16	01/16/25 08:24	1
Dimethyl phthalate	0.090	U	0.39	0.090	mg/Kg	☼	01/15/25 20:16	01/16/25 08:24	1
Di-n-butyl phthalate	0.015	U	0.39	0.015	mg/Kg	☼	01/15/25 20:16	01/16/25 08:24	1
Di-n-octyl phthalate	0.021	U	0.39	0.021	mg/Kg	☼	01/15/25 20:16	01/16/25 08:24	1
Fluoranthene	0.014	U	0.39	0.014	mg/Kg	☼	01/15/25 20:16	01/16/25 08:24	1
Fluorene	0.012	U	0.39	0.012	mg/Kg	☼	01/15/25 20:16	01/16/25 08:24	1
Hexachlorobenzene	0.019	U	0.039	0.019	mg/Kg	☼	01/15/25 20:16	01/16/25 08:24	1
Hexachlorobutadiene	0.0084	U	0.080	0.0084	mg/Kg	☼	01/15/25 20:16	01/16/25 08:24	1
Hexachlorocyclopentadiene	0.035	U	0.39	0.035	mg/Kg	☼	01/15/25 20:16	01/16/25 08:24	1
Hexachloroethane	0.014	U	0.039	0.014	mg/Kg	☼	01/15/25 20:16	01/16/25 08:24	1
Indeno[1,2,3-cd]pyrene	0.015	U	0.039	0.015	mg/Kg	☼	01/15/25 20:16	01/16/25 08:24	1
Isophorone	0.11	U	0.16	0.11	mg/Kg	☼	01/15/25 20:16	01/16/25 08:24	1
Naphthalene	0.0068	U	0.39	0.0068	mg/Kg	☼	01/15/25 20:16	01/16/25 08:24	1
Nitrobenzene	0.022	U	0.039	0.022	mg/Kg	☼	01/15/25 20:16	01/16/25 08:24	1
N-Nitrosodi-n-propylamine	0.029	U	0.039	0.029	mg/Kg	☼	01/15/25 20:16	01/16/25 08:24	1
N-Nitrosodiphenylamine	0.033	U	0.39	0.033	mg/Kg	☼	01/15/25 20:16	01/16/25 08:24	1
Pentachlorophenol	0.081	U	0.32	0.081	mg/Kg	☼	01/15/25 20:16	01/16/25 08:24	1
Phenanthrene	0.016	U	0.39	0.016	mg/Kg	☼	01/15/25 20:16	01/16/25 08:24	1
Phenol	0.015	U	0.39	0.015	mg/Kg	☼	01/15/25 20:16	01/16/25 08:24	1
Pyrene	0.0098	U	0.39	0.0098	mg/Kg	☼	01/15/25 20:16	01/16/25 08:24	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		mg/Kg	☼		N/A	01/15/25 20:16	01/16/25 08:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	98		30 - 130	01/15/25 20:16	01/16/25 08:24	1
2-Fluorobiphenyl	91		30 - 130	01/15/25 20:16	01/16/25 08:24	1
2-Fluorophenol (Surr)	101		30 - 130	01/15/25 20:16	01/16/25 08:24	1
Nitrobenzene-d5 (Surr)	99		30 - 130	01/15/25 20:16	01/16/25 08:24	1

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Client Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

Client Sample ID: TB-3

Lab Sample ID: 460-318705-3

Date Collected: 01/13/25 11:30

Matrix: Solid

Date Received: 01/13/25 19:00

Percent Solids: 83.4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5 (Surr)	97		30 - 130	01/15/25 20:16	01/16/25 08:24	1
Terphenyl-d14 (Surr)	97		30 - 130	01/15/25 20:16	01/16/25 08:24	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0012	U	0.0080	0.0012	mg/Kg	☆	01/14/25 17:11	01/15/25 07:32	1
alpha-BHC	0.00081	U	0.0024	0.00081	mg/Kg	☆	01/14/25 17:11	01/15/25 07:32	1
beta-BHC	0.00090	U	0.0024	0.00090	mg/Kg	☆	01/14/25 17:11	01/15/25 07:32	1
delta-BHC	0.00049	U	0.0024	0.00049	mg/Kg	☆	01/14/25 17:11	01/15/25 07:32	1
gamma-BHC (Lindane)	0.00074	U	0.0024	0.00074	mg/Kg	☆	01/14/25 17:11	01/15/25 07:32	1
Chlordane (technical)	0.019	U	0.080	0.019	mg/Kg	☆	01/14/25 17:11	01/15/25 07:32	1
4,4'-DDD	0.0014	U	0.0080	0.0014	mg/Kg	☆	01/14/25 17:11	01/15/25 07:32	1
4,4'-DDE	0.00094	U	0.0080	0.00094	mg/Kg	☆	01/14/25 17:11	01/15/25 07:32	1
4,4'-DDT	0.0015	U	0.0080	0.0015	mg/Kg	☆	01/14/25 17:11	01/15/25 07:32	1
Dieldrin	0.0010	U	0.0024	0.0010	mg/Kg	☆	01/14/25 17:11	01/15/25 07:32	1
Endosulfan I	0.0012	U	0.0080	0.0012	mg/Kg	☆	01/14/25 17:11	01/15/25 07:32	1
Endosulfan II	0.0021	U	0.0080	0.0021	mg/Kg	☆	01/14/25 17:11	01/15/25 07:32	1
Endosulfan sulfate	0.0010	U	0.0080	0.0010	mg/Kg	☆	01/14/25 17:11	01/15/25 07:32	1
Endrin	0.0011	U	0.0080	0.0011	mg/Kg	☆	01/14/25 17:11	01/15/25 07:32	1
Endrin aldehyde	0.0019	U	0.0080	0.0019	mg/Kg	☆	01/14/25 17:11	01/15/25 07:32	1
Endrin ketone	0.0016	U	0.0080	0.0016	mg/Kg	☆	01/14/25 17:11	01/15/25 07:32	1
Heptachlor	0.00094	U	0.0080	0.00094	mg/Kg	☆	01/14/25 17:11	01/15/25 07:32	1
Heptachlor epoxide	0.0012	U	0.0080	0.0012	mg/Kg	☆	01/14/25 17:11	01/15/25 07:32	1
Methoxychlor	0.0018	U	0.0080	0.0018	mg/Kg	☆	01/14/25 17:11	01/15/25 07:32	1
Toxaphene	0.029	U	0.080	0.029	mg/Kg	☆	01/14/25 17:11	01/15/25 07:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	48		30 - 150	01/14/25 17:11	01/15/25 07:32	1
Tetrachloro-m-xylene	51		30 - 150	01/14/25 17:11	01/15/25 07:32	1
DCB Decachlorobiphenyl	61		30 - 150	01/14/25 17:11	01/15/25 07:32	1
DCB Decachlorobiphenyl	65		30 - 150	01/14/25 17:11	01/15/25 07:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.021	U	0.080	0.021	mg/Kg	☆	01/14/25 17:06	01/15/25 03:54	1
Aroclor 1221	0.021	U	0.080	0.021	mg/Kg	☆	01/14/25 17:06	01/15/25 03:54	1
Aroclor 1232	0.021	U	0.080	0.021	mg/Kg	☆	01/14/25 17:06	01/15/25 03:54	1
Aroclor 1242	0.021	U	0.080	0.021	mg/Kg	☆	01/14/25 17:06	01/15/25 03:54	1
Aroclor 1248	0.021	U	0.080	0.021	mg/Kg	☆	01/14/25 17:06	01/15/25 03:54	1
Aroclor 1254	0.021	U	0.080	0.021	mg/Kg	☆	01/14/25 17:06	01/15/25 03:54	1
Aroclor 1260	0.021	U	0.080	0.021	mg/Kg	☆	01/14/25 17:06	01/15/25 03:54	1
PCB-1262	0.021	U	0.080	0.021	mg/Kg	☆	01/14/25 17:06	01/15/25 03:54	1
Aroclor 1268	0.021	U	0.080	0.021	mg/Kg	☆	01/14/25 17:06	01/15/25 03:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	61		30 - 150	01/14/25 17:06	01/15/25 03:54	1
DCB Decachlorobiphenyl	63		30 - 150	01/14/25 17:06	01/15/25 03:54	1
Tetrachloro-m-xylene	51		30 - 150	01/14/25 17:06	01/15/25 03:54	1
Tetrachloro-m-xylene	56		30 - 150	01/14/25 17:06	01/15/25 03:54	1

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Client Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

Client Sample ID: TB-3

Lab Sample ID: 460-318705-3

Date Collected: 01/13/25 11:30

Matrix: Solid

Date Received: 01/13/25 19:00

Percent Solids: 83.4

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9560		21.8	6.0	mg/Kg	☆	01/17/25 07:23	01/17/25 17:29	1
Antimony	0.16	U	1.1	0.16	mg/Kg	☆	01/17/25 07:23	01/17/25 17:29	1
Arsenic	1.5		1.1	0.11	mg/Kg	☆	01/17/25 07:23	01/17/25 17:29	1
Barium	173		2.2	0.16	mg/Kg	☆	01/17/25 07:23	01/17/25 17:29	1
Beryllium	1.3		0.44	0.062	mg/Kg	☆	01/17/25 07:23	01/17/25 17:29	1
Cadmium	0.12	U	1.1	0.12	mg/Kg	☆	01/17/25 07:23	01/17/25 17:29	1
Calcium	1400		109	44.4	mg/Kg	☆	01/17/25 07:23	01/17/25 17:29	1
Chromium	4.4		2.2	0.99	mg/Kg	☆	01/17/25 07:23	01/17/25 17:29	1
Cobalt	11.5		2.2	0.16	mg/Kg	☆	01/17/25 07:23	01/17/25 17:29	1
Copper	5.9		2.2	0.40	mg/Kg	☆	01/17/25 07:23	01/17/25 17:29	1
Iron	25000		65.4	22.0	mg/Kg	☆	01/17/25 07:23	01/17/25 17:29	1
Lead	8.7		0.65	0.22	mg/Kg	☆	01/17/25 07:23	01/17/25 17:29	1
Magnesium	5130		109	11.1	mg/Kg	☆	01/17/25 07:23	01/17/25 17:29	1
Manganese	2370		43.6	4.4	mg/Kg	☆	01/17/25 07:23	01/17/25 19:33	10
Nickel	17.8		2.2	0.51	mg/Kg	☆	01/17/25 07:23	01/17/25 17:29	1
Potassium	5520		109	17.7	mg/Kg	☆	01/17/25 07:23	01/17/25 17:29	1
Selenium	0.21	J	1.4	0.14	mg/Kg	☆	01/17/25 07:23	01/17/25 17:29	1
Silver	0.097	U	0.44	0.097	mg/Kg	☆	01/17/25 07:23	01/17/25 17:29	1
Sodium	229		109	49.8	mg/Kg	☆	01/17/25 07:23	01/17/25 17:29	1
Thallium	0.34	J	0.44	0.045	mg/Kg	☆	01/17/25 07:23	01/17/25 17:29	1
Vanadium	14.5		2.2	0.22	mg/Kg	☆	01/17/25 07:23	01/17/25 17:29	1
Zinc	53.6		8.7	3.3	mg/Kg	☆	01/17/25 07:23	01/17/25 17:29	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0085	U	0.018	0.0085	mg/Kg	☆	01/15/25 00:42	01/15/25 05:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.16	U	0.29	0.16	mg/Kg	☆	01/15/25 17:48	01/15/25 21:59	1
Percent Moisture (EPA Moisture)	16.6		1.0	1.0	%			01/14/25 17:16	1
Percent Solids (EPA Moisture)	83.4		1.0	1.0	%			01/14/25 17:16	1

Client Sample ID: TB-4

Lab Sample ID: 460-318705-4

Date Collected: 01/13/25 09:50

Matrix: Solid

Date Received: 01/13/25 19:00

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00026	U	0.0011	0.00026	mg/Kg	☆	01/14/25 19:17	01/18/25 03:04	1
1,1,2,2-Tetrachloroethane	0.00023	U	0.0011	0.00023	mg/Kg	☆	01/14/25 19:17	01/18/25 03:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00033	U	0.0011	0.00033	mg/Kg	☆	01/14/25 19:17	01/18/25 03:04	1
1,1,2-Trichloroethane	0.00019	U	0.0011	0.00019	mg/Kg	☆	01/14/25 19:17	01/18/25 03:04	1
1,1-Dichloroethane	0.00023	U	0.0011	0.00023	mg/Kg	☆	01/14/25 19:17	01/18/25 03:04	1
1,1-Dichloroethene	0.00025	U	0.0011	0.00025	mg/Kg	☆	01/14/25 19:17	01/18/25 03:04	1
1,2,3-Trichlorobenzene	0.00020	U	0.0011	0.00020	mg/Kg	☆	01/14/25 19:17	01/18/25 03:04	1
1,2,4-Trichlorobenzene	0.00039	U	0.0011	0.00039	mg/Kg	☆	01/14/25 19:17	01/18/25 03:04	1
1,2-Dibromo-3-Chloropropane	0.00050	U	0.0011	0.00050	mg/Kg	☆	01/14/25 19:17	01/18/25 03:04	1
1,2-Dichlorobenzene	0.00040	U	0.0011	0.00040	mg/Kg	☆	01/14/25 19:17	01/18/25 03:04	1
1,2-Dichloroethane	0.00032	U	0.0011	0.00032	mg/Kg	☆	01/14/25 19:17	01/18/25 03:04	1

Eurofins Edison

Client Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

Client Sample ID: TB-4

Lab Sample ID: 460-318705-4

Date Collected: 01/13/25 09:50

Matrix: Solid

Date Received: 01/13/25 19:00

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	0.00046	U	0.0011	0.00046	mg/Kg	☼	01/14/25 19:17	01/18/25 03:04	1
1,3-Dichlorobenzene	0.00040	U	0.0011	0.00040	mg/Kg	☼	01/14/25 19:17	01/18/25 03:04	1
1,4-Dichlorobenzene	0.00025	U	0.0011	0.00025	mg/Kg	☼	01/14/25 19:17	01/18/25 03:04	1
1,4-Dioxane	0.010	U	0.11	0.010	mg/Kg	☼	01/14/25 19:17	01/18/25 03:04	1
2-Butanone (MEK)	0.00040	U	0.0055	0.00040	mg/Kg	☼	01/14/25 19:17	01/18/25 03:04	1
2-Hexanone (MBK)	0.0019	U	0.0055	0.0019	mg/Kg	☼	01/14/25 19:17	01/18/25 03:04	1
4-Methyl-2-pentanone (MIBK)	0.0017	U	0.0055	0.0017	mg/Kg	☼	01/14/25 19:17	01/18/25 03:04	1
Acetone	0.0063	U	0.0066	0.0063	mg/Kg	☼	01/14/25 19:17	01/18/25 03:04	1
Benzene	0.00028	U	0.0011	0.00028	mg/Kg	☼	01/14/25 19:17	01/18/25 03:04	1
Bromoform	0.00047	U	0.0011	0.00047	mg/Kg	☼	01/14/25 19:17	01/18/25 03:04	1
Bromomethane	0.0011	U	0.0022	0.0011	mg/Kg	☼	01/14/25 19:17	01/18/25 03:04	1
Carbon disulfide	0.00029	U	0.0011	0.00029	mg/Kg	☼	01/14/25 19:17	01/18/25 03:04	1
Carbon tetrachloride	0.00042	U	0.0011	0.00042	mg/Kg	☼	01/14/25 19:17	01/18/25 03:04	1
Chlorobenzene	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/14/25 19:17	01/18/25 03:04	1
Chlorobromomethane	0.00031	U	0.0011	0.00031	mg/Kg	☼	01/14/25 19:17	01/18/25 03:04	1
Chlorodibromomethane	0.00021	U	0.0011	0.00021	mg/Kg	☼	01/14/25 19:17	01/18/25 03:04	1
Chloroethane	0.00057	U	0.0011	0.00057	mg/Kg	☼	01/14/25 19:17	01/18/25 03:04	1
Chloroform	0.0011	U	0.0011	0.0011	mg/Kg	☼	01/14/25 19:17	01/18/25 03:04	1
Chloromethane	0.00048	U	0.0011	0.00048	mg/Kg	☼	01/14/25 19:17	01/18/25 03:04	1
cis-1,2-Dichloroethene	0.00039	U	0.0011	0.00039	mg/Kg	☼	01/14/25 19:17	01/18/25 03:04	1
cis-1,3-Dichloropropene	0.00030	U	0.0011	0.00030	mg/Kg	☼	01/14/25 19:17	01/18/25 03:04	1
Cyclohexane	0.00024	U	0.0011	0.00024	mg/Kg	☼	01/14/25 19:17	01/18/25 03:04	1
Dichlorobromomethane	0.00028	U	0.0011	0.00028	mg/Kg	☼	01/14/25 19:17	01/18/25 03:04	1
Dichlorodifluoromethane	0.00037	U	0.0011	0.00037	mg/Kg	☼	01/14/25 19:17	01/18/25 03:04	1
Ethylbenzene	0.00022	U	0.0011	0.00022	mg/Kg	☼	01/14/25 19:17	01/18/25 03:04	1
1,2-Dibromoethane	0.00020	U	0.0011	0.00020	mg/Kg	☼	01/14/25 19:17	01/18/25 03:04	1
Isopropylbenzene	0.00031	U	0.0011	0.00031	mg/Kg	☼	01/14/25 19:17	01/18/25 03:04	1
Methyl acetate	0.0047	U	0.0055	0.0047	mg/Kg	☼	01/14/25 19:17	01/18/25 03:04	1
Methyl tert-butyl ether	0.00056	U	0.0011	0.00056	mg/Kg	☼	01/14/25 19:17	01/18/25 03:04	1
Methylcyclohexane	0.00055	U	0.0011	0.00055	mg/Kg	☼	01/14/25 19:17	01/18/25 03:04	1
Methylene Chloride	0.0013	U	0.0022	0.0013	mg/Kg	☼	01/14/25 19:17	01/18/25 03:04	1
m-Xylene & p-Xylene	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/14/25 19:17	01/18/25 03:04	1
o-Xylene	0.00021	U	0.0011	0.00021	mg/Kg	☼	01/14/25 19:17	01/18/25 03:04	1
Styrene	0.00030	U	0.0011	0.00030	mg/Kg	☼	01/14/25 19:17	01/18/25 03:04	1
Tetrachloroethene	0.00033	U	0.0011	0.00033	mg/Kg	☼	01/14/25 19:17	01/18/25 03:04	1
Toluene	0.00026	U	0.0011	0.00026	mg/Kg	☼	01/14/25 19:17	01/18/25 03:04	1
trans-1,2-Dichloroethene	0.00027	U	0.0011	0.00027	mg/Kg	☼	01/14/25 19:17	01/18/25 03:04	1
trans-1,3-Dichloropropene	0.00029	U	0.0011	0.00029	mg/Kg	☼	01/14/25 19:17	01/18/25 03:04	1
Trichloroethene	0.00035	U	0.0011	0.00035	mg/Kg	☼	01/14/25 19:17	01/18/25 03:04	1
Trichlorofluoromethane	0.00044	U	0.0011	0.00044	mg/Kg	☼	01/14/25 19:17	01/18/25 03:04	1
Vinyl chloride	0.00060	U	0.0011	0.00060	mg/Kg	☼	01/14/25 19:17	01/18/25 03:04	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		mg/Kg	☼		N/A	01/14/25 19:17	01/18/25 03:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 130	01/14/25 19:17	01/18/25 03:04	1
4-Bromofluorobenzene	98		70 - 130	01/14/25 19:17	01/18/25 03:04	1
Dibromofluoromethane (Surr)	99		70 - 130	01/14/25 19:17	01/18/25 03:04	1
Toluene-d8 (Surr)	96		70 - 130	01/14/25 19:17	01/18/25 03:04	1

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Client Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

Client Sample ID: TB-4

Lab Sample ID: 460-318705-4

Date Collected: 01/13/25 09:50

Matrix: Solid

Date Received: 01/13/25 19:00

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.013	U	0.38	0.013	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
1,2,4,5-Tetrachlorobenzene	0.012	U	0.38	0.012	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
2,2'-oxybis[1-chloropropane]	0.023	U	0.38	0.023	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
2,3,4,6-Tetrachlorophenol	0.026	U	0.38	0.026	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
2,4,5-Trichlorophenol	0.039	U	0.38	0.039	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
2,4,6-Trichlorophenol	0.049	U	0.15	0.049	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
2,4-Dichlorophenol	0.024	U	0.15	0.024	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
2,4-Dimethylphenol	0.045	U	0.38	0.045	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
2,4-Dinitrophenol	0.19	U	0.30	0.19	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
2,4-Dinitrotoluene	0.041	U	0.077	0.041	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
2,6-Dinitrotoluene	0.027	U	0.077	0.027	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
2-Chloronaphthalene	0.018	U	0.38	0.018	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
2-Chlorophenol	0.013	U	0.38	0.013	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
2-Methylnaphthalene	0.011	U	0.38	0.011	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
2-Methylphenol	0.014	U	0.38	0.014	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
2-Nitroaniline	0.029	U	0.38	0.029	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
2-Nitrophenol	0.038	U	0.38	0.038	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
3,3'-Dichlorobenzidine	0.057	U *	0.15	0.057	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
3-Nitroaniline	0.090	U	0.38	0.090	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
4,6-Dinitro-2-methylphenol	0.15	U	0.30	0.15	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
4-Bromophenyl phenyl ether	0.015	U	0.38	0.015	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
4-Chloro-3-methylphenol	0.021	U	0.38	0.021	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
4-Chloroaniline	0.067	U	0.38	0.067	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
4-Chlorophenyl phenyl ether	0.013	U	0.38	0.013	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
4-Methylphenol	0.024	U	0.38	0.024	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
4-Nitroaniline	0.044	U	0.38	0.044	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
4-Nitrophenol	0.062	U	0.77	0.062	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
Acenaphthene	0.011	U	0.38	0.011	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
Acenaphthylene	0.011	U	0.38	0.011	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
Acetophenone	0.019	U	0.38	0.019	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
Anthracene	0.012	U	0.38	0.012	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
Atrazine	0.022	U	0.15	0.022	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
Benzaldehyde	0.063	U	0.38	0.063	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
Benzo[a]anthracene	0.029	U	0.038	0.029	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
Benzo[a]pyrene	0.010	U	0.038	0.010	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
Benzo[b]fluoranthene	0.0098	U	0.038	0.0098	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
Benzo[g,h,i]perylene	0.011	U	0.38	0.011	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
Benzo[k]fluoranthene	0.0074	U	0.038	0.0074	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
Bis(2-chloroethoxy)methane	0.030	U	0.38	0.030	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
Bis(2-chloroethyl)ether	0.013	U	0.038	0.013	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
Bis(2-ethylhexyl) phthalate	0.020	U	0.38	0.020	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
Butyl benzyl phthalate	0.018	U	0.38	0.018	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
Caprolactam	0.059	U	0.38	0.059	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
Carbazole	0.014	U	0.38	0.014	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
Chrysene	0.016	U	0.38	0.016	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
Dibenz(a,h)anthracene	0.016	U	0.038	0.016	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
Dibenzofuran	0.013	U	0.38	0.013	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
Diethyl phthalate	0.012	U	0.38	0.012	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
Dimethyl phthalate	0.086	U	0.38	0.086	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1

Eurofins Edison

Client Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

Client Sample ID: TB-4

Lab Sample ID: 460-318705-4

Date Collected: 01/13/25 09:50

Matrix: Solid

Date Received: 01/13/25 19:00

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	0.014	U	0.38	0.014	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
Di-n-octyl phthalate	0.020	U	0.38	0.020	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
Fluoranthene	0.013	U	0.38	0.013	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
Fluorene	0.011	U	0.38	0.011	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
Hexachlorobenzene	0.018	U	0.038	0.018	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
Hexachlorobutadiene	0.0081	U	0.077	0.0081	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
Hexachlorocyclopentadiene	0.033	U	0.38	0.033	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
Hexachloroethane	0.013	U	0.038	0.013	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
Indeno[1,2,3-cd]pyrene	0.015	U	0.038	0.015	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
Isophorone	0.11	U	0.15	0.11	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
Naphthalene	0.0066	U	0.38	0.0066	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
Nitrobenzene	0.021	U	0.038	0.021	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
N-Nitrosodi-n-propylamine	0.028	U	0.038	0.028	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
N-Nitrosodiphenylamine	0.031	U	0.38	0.031	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
Pentachlorophenol	0.078	U	0.30	0.078	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
Phenanthrene	0.015	U	0.38	0.015	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
Phenol	0.014	U	0.38	0.014	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1
Pyrene	0.0094	U	0.38	0.0094	mg/Kg	☆	01/15/25 20:16	01/16/25 08:46	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		mg/Kg	☆		N/A	01/15/25 20:16	01/16/25 08:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	91		30 - 130	01/15/25 20:16	01/16/25 08:46	1
2-Fluorobiphenyl	87		30 - 130	01/15/25 20:16	01/16/25 08:46	1
2-Fluorophenol (Surr)	98		30 - 130	01/15/25 20:16	01/16/25 08:46	1
Nitrobenzene-d5 (Surr)	94		30 - 130	01/15/25 20:16	01/16/25 08:46	1
Phenol-d5 (Surr)	95		30 - 130	01/15/25 20:16	01/16/25 08:46	1
Terphenyl-d14 (Surr)	97		30 - 130	01/15/25 20:16	01/16/25 08:46	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0012	U	0.0076	0.0012	mg/Kg	☆	01/14/25 17:11	01/15/25 07:45	1
alpha-BHC	0.00078	U	0.0023	0.00078	mg/Kg	☆	01/14/25 17:11	01/15/25 07:45	1
beta-BHC	0.00086	U	0.0023	0.00086	mg/Kg	☆	01/14/25 17:11	01/15/25 07:45	1
delta-BHC	0.00047	U	0.0023	0.00047	mg/Kg	☆	01/14/25 17:11	01/15/25 07:45	1
gamma-BHC (Lindane)	0.00071	U	0.0023	0.00071	mg/Kg	☆	01/14/25 17:11	01/15/25 07:45	1
Chlordane (technical)	0.018	U	0.076	0.018	mg/Kg	☆	01/14/25 17:11	01/15/25 07:45	1
4,4'-DDD	0.0013	U	0.0076	0.0013	mg/Kg	☆	01/14/25 17:11	01/15/25 07:45	1
4,4'-DDE	0.00090	U	0.0076	0.00090	mg/Kg	☆	01/14/25 17:11	01/15/25 07:45	1
4,4'-DDT	0.0014	U	0.0076	0.0014	mg/Kg	☆	01/14/25 17:11	01/15/25 07:45	1
Dieldrin	0.00099	U	0.0023	0.00099	mg/Kg	☆	01/14/25 17:11	01/15/25 07:45	1
Endosulfan I	0.0012	U	0.0076	0.0012	mg/Kg	☆	01/14/25 17:11	01/15/25 07:45	1
Endosulfan II	0.0020	U	0.0076	0.0020	mg/Kg	☆	01/14/25 17:11	01/15/25 07:45	1
Endosulfan sulfate	0.00096	U	0.0076	0.00096	mg/Kg	☆	01/14/25 17:11	01/15/25 07:45	1
Endrin	0.0011	U	0.0076	0.0011	mg/Kg	☆	01/14/25 17:11	01/15/25 07:45	1
Endrin aldehyde	0.0018	U	0.0076	0.0018	mg/Kg	☆	01/14/25 17:11	01/15/25 07:45	1
Endrin ketone	0.0015	U	0.0076	0.0015	mg/Kg	☆	01/14/25 17:11	01/15/25 07:45	1
Heptachlor	0.00090	U	0.0076	0.00090	mg/Kg	☆	01/14/25 17:11	01/15/25 07:45	1
Heptachlor epoxide	0.0011	U	0.0076	0.0011	mg/Kg	☆	01/14/25 17:11	01/15/25 07:45	1

Eurofins Edison

Client Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

Client Sample ID: TB-4

Lab Sample ID: 460-318705-4

Date Collected: 01/13/25 09:50

Matrix: Solid

Date Received: 01/13/25 19:00

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	0.0017	U	0.0076	0.0017	mg/Kg	☆	01/14/25 17:11	01/15/25 07:45	1
Toxaphene	0.028	U	0.076	0.028	mg/Kg	☆	01/14/25 17:11	01/15/25 07:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	62		30 - 150				01/14/25 17:11	01/15/25 07:45	1
Tetrachloro-m-xylene	66		30 - 150				01/14/25 17:11	01/15/25 07:45	1
DCB Decachlorobiphenyl	78		30 - 150				01/14/25 17:11	01/15/25 07:45	1
DCB Decachlorobiphenyl	77		30 - 150				01/14/25 17:11	01/15/25 07:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.020	U	0.076	0.020	mg/Kg	☆	01/14/25 17:06	01/15/25 04:11	1
Aroclor 1221	0.020	U	0.076	0.020	mg/Kg	☆	01/14/25 17:06	01/15/25 04:11	1
Aroclor 1232	0.020	U	0.076	0.020	mg/Kg	☆	01/14/25 17:06	01/15/25 04:11	1
Aroclor 1242	0.020	U	0.076	0.020	mg/Kg	☆	01/14/25 17:06	01/15/25 04:11	1
Aroclor 1248	0.020	U	0.076	0.020	mg/Kg	☆	01/14/25 17:06	01/15/25 04:11	1
Aroclor 1254	0.020	U	0.076	0.020	mg/Kg	☆	01/14/25 17:06	01/15/25 04:11	1
Aroclor 1260	0.020	U	0.076	0.020	mg/Kg	☆	01/14/25 17:06	01/15/25 04:11	1
PCB-1262	0.020	U	0.076	0.020	mg/Kg	☆	01/14/25 17:06	01/15/25 04:11	1
Aroclor 1268	0.020	U	0.076	0.020	mg/Kg	☆	01/14/25 17:06	01/15/25 04:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	82		30 - 150				01/14/25 17:06	01/15/25 04:11	1
DCB Decachlorobiphenyl	80		30 - 150				01/14/25 17:06	01/15/25 04:11	1
Tetrachloro-m-xylene	70		30 - 150				01/14/25 17:06	01/15/25 04:11	1
Tetrachloro-m-xylene	71		30 - 150				01/14/25 17:06	01/15/25 04:11	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12900		20.9	5.7	mg/Kg	☆	01/17/25 07:23	01/17/25 17:32	1
Antimony	0.15	U	1.0	0.15	mg/Kg	☆	01/17/25 07:23	01/17/25 17:32	1
Arsenic	5.1		1.0	0.11	mg/Kg	☆	01/17/25 07:23	01/17/25 17:32	1
Barium	62.2		2.1	0.15	mg/Kg	☆	01/17/25 07:23	01/17/25 17:32	1
Beryllium	0.72		0.42	0.059	mg/Kg	☆	01/17/25 07:23	01/17/25 17:32	1
Cadmium	0.12	U	1.0	0.12	mg/Kg	☆	01/17/25 07:23	01/17/25 17:32	1
Calcium	1420		104	42.5	mg/Kg	☆	01/17/25 07:23	01/17/25 17:32	1
Chromium	30.5		2.1	0.95	mg/Kg	☆	01/17/25 07:23	01/17/25 17:32	1
Cobalt	5.2		2.1	0.15	mg/Kg	☆	01/17/25 07:23	01/17/25 17:32	1
Copper	11.4		2.1	0.38	mg/Kg	☆	01/17/25 07:23	01/17/25 17:32	1
Iron	23600		62.6	21.1	mg/Kg	☆	01/17/25 07:23	01/17/25 17:32	1
Lead	8.3		0.63	0.21	mg/Kg	☆	01/17/25 07:23	01/17/25 17:32	1
Magnesium	2490		104	10.6	mg/Kg	☆	01/17/25 07:23	01/17/25 17:32	1
Manganese	113		4.2	0.42	mg/Kg	☆	01/17/25 07:23	01/17/25 17:32	1
Nickel	12.5		2.1	0.49	mg/Kg	☆	01/17/25 07:23	01/17/25 17:32	1
Potassium	844		104	16.9	mg/Kg	☆	01/17/25 07:23	01/17/25 17:32	1
Selenium	0.28	J	1.3	0.13	mg/Kg	☆	01/17/25 07:23	01/17/25 17:32	1
Silver	0.093	U	0.42	0.093	mg/Kg	☆	01/17/25 07:23	01/17/25 17:32	1
Sodium	890		104	47.7	mg/Kg	☆	01/17/25 07:23	01/17/25 17:32	1
Thallium	0.11	J	0.42	0.043	mg/Kg	☆	01/17/25 07:23	01/17/25 17:32	1
Vanadium	32.7		2.1	0.21	mg/Kg	☆	01/17/25 07:23	01/17/25 17:32	1

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Client Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

Client Sample ID: TB-4

Lab Sample ID: 460-318705-4

Date Collected: 01/13/25 09:50

Matrix: Solid

Date Received: 01/13/25 19:00

Percent Solids: 87.1

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	30.5		8.3	3.2	mg/Kg	☆	01/17/25 07:23	01/17/25 17:32	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0090	U	0.019	0.0090	mg/Kg	☆	01/15/25 00:42	01/15/25 05:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.13	U	0.24	0.13	mg/Kg	☆	01/15/25 17:48	01/15/25 22:00	1
Percent Moisture (EPA Moisture)	12.9		1.0	1.0	%			01/14/25 17:16	1
Percent Solids (EPA Moisture)	87.1		1.0	1.0	%			01/14/25 17:16	1

Client Sample ID: TW-1

Lab Sample ID: 460-318705-5

Date Collected: 01/13/25 12:00

Matrix: Water

Date Received: 01/13/25 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00024	U	0.0010	0.00024	mg/L			01/16/25 12:13	1
1,1,2,2-Tetrachloroethane	0.00037	U	0.0010	0.00037	mg/L			01/16/25 12:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00031	U	0.0010	0.00031	mg/L			01/16/25 12:13	1
1,1,2-Trichloroethane	0.00020	U	0.0010	0.00020	mg/L			01/16/25 12:13	1
1,1-Dichloroethane	0.00026	U	0.0010	0.00026	mg/L			01/16/25 12:13	1
1,1-Dichloroethene	0.00026	U	0.0010	0.00026	mg/L			01/16/25 12:13	1
1,2,3-Trichlorobenzene	0.00036	U	0.0010	0.00036	mg/L			01/16/25 12:13	1
1,2,4-Trichlorobenzene	0.00037	U	0.0010	0.00037	mg/L			01/16/25 12:13	1
1,2-Dibromo-3-Chloropropane	0.00038	U	0.0010	0.00038	mg/L			01/16/25 12:13	1
1,2-Dichlorobenzene	0.00021	U	0.0010	0.00021	mg/L			01/16/25 12:13	1
1,2-Dichloroethane	0.00043	U	0.0010	0.00043	mg/L			01/16/25 12:13	1
1,2-Dichloropropane	0.00035	U	0.0010	0.00035	mg/L			01/16/25 12:13	1
1,3-Dichlorobenzene	0.00034	U	0.0010	0.00034	mg/L			01/16/25 12:13	1
1,4-Dichlorobenzene	0.00033	U	0.0010	0.00033	mg/L			01/16/25 12:13	1
1,4-Dioxane	0.028	U	0.050	0.028	mg/L			01/16/25 12:13	1
2-Butanone (MEK)	0.0019	U *	0.0050	0.0019	mg/L			01/16/25 12:13	1
2-Hexanone (MBK)	0.0011	U *	0.0050	0.0011	mg/L			01/16/25 12:13	1
4-Methyl-2-pentanone (MIBK)	0.0013	U	0.0050	0.0013	mg/L			01/16/25 12:13	1
Acetone	0.0044	U	0.0050	0.0044	mg/L			01/16/25 12:13	1
Benzene	0.00020	U	0.0010	0.00020	mg/L			01/16/25 12:13	1
Bromoform	0.00054	U *	0.0010	0.00054	mg/L			01/16/25 12:13	1
Bromomethane	0.00055	U	0.0010	0.00055	mg/L			01/16/25 12:13	1
Carbon disulfide	0.00082	U	0.0010	0.00082	mg/L			01/16/25 12:13	1
Carbon tetrachloride	0.00021	U	0.0010	0.00021	mg/L			01/16/25 12:13	1
Chlorobenzene	0.00038	U	0.0010	0.00038	mg/L			01/16/25 12:13	1
Chlorobromomethane	0.00041	U	0.0010	0.00041	mg/L			01/16/25 12:13	1
Chlorodibromomethane	0.00028	U	0.0010	0.00028	mg/L			01/16/25 12:13	1
Chloroethane	0.00032	U	0.0010	0.00032	mg/L			01/16/25 12:13	1
Chloroform	0.00033	U	0.0010	0.00033	mg/L			01/16/25 12:13	1
Chloromethane	0.00040	U	0.0010	0.00040	mg/L			01/16/25 12:13	1
cis-1,2-Dichloroethene	0.00022	U	0.0010	0.00022	mg/L			01/16/25 12:13	1
cis-1,3-Dichloropropene	0.00022	U	0.0010	0.00022	mg/L			01/16/25 12:13	1

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Client Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

Client Sample ID: TW-1

Lab Sample ID: 460-318705-5

Date Collected: 01/13/25 12:00

Matrix: Water

Date Received: 01/13/25 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	0.00032	U	0.0010	0.00032	mg/L			01/16/25 12:13	1
Dichlorobromomethane	0.00034	U	0.0010	0.00034	mg/L			01/16/25 12:13	1
Dichlorodifluoromethane	0.00031	U	0.0010	0.00031	mg/L			01/16/25 12:13	1
Ethylbenzene	0.00030	U	0.0010	0.00030	mg/L			01/16/25 12:13	1
1,2-Dibromoethane	0.00050	U	0.0010	0.00050	mg/L			01/16/25 12:13	1
Isopropylbenzene	0.00034	U	0.0010	0.00034	mg/L			01/16/25 12:13	1
Methyl acetate	0.00079	U	0.0050	0.00079	mg/L			01/16/25 12:13	1
Methyl tert-butyl ether	0.00022	U	0.0010	0.00022	mg/L			01/16/25 12:13	1
Methylcyclohexane	0.00071	U	0.0010	0.00071	mg/L			01/16/25 12:13	1
Methylene Chloride	0.00032	U	0.0010	0.00032	mg/L			01/16/25 12:13	1
m-Xylene & p-Xylene	0.00030	U	0.0010	0.00030	mg/L			01/16/25 12:13	1
o-Xylene	0.00036	U	0.0010	0.00036	mg/L			01/16/25 12:13	1
Styrene	0.00042	U	0.0010	0.00042	mg/L			01/16/25 12:13	1
Tetrachloroethene	0.00025	U	0.0010	0.00025	mg/L			01/16/25 12:13	1
Toluene	0.00038	U	0.0010	0.00038	mg/L			01/16/25 12:13	1
trans-1,2-Dichloroethene	0.00024	U	0.0010	0.00024	mg/L			01/16/25 12:13	1
trans-1,3-Dichloropropene	0.00022	U	0.0010	0.00022	mg/L			01/16/25 12:13	1
Trichloroethene	0.00031	U	0.0010	0.00031	mg/L			01/16/25 12:13	1
Trichlorofluoromethane	0.00032	U	0.0010	0.00032	mg/L			01/16/25 12:13	1
Vinyl chloride	0.00017	U	0.0010	0.00017	mg/L			01/16/25 12:13	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		mg/L			N/A		01/16/25 12:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 128		01/16/25 12:13	1
4-Bromofluorobenzene	98		76 - 120		01/16/25 12:13	1
Dibromofluoromethane (Surr)	108		77 - 132		01/16/25 12:13	1
Toluene-d8 (Surr)	96		80 - 120		01/16/25 12:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	0.00029	U	0.010	0.00029	mg/L		01/15/25 09:13	01/15/25 23:05	1
2-Chlorophenol	0.00095	U	0.010	0.00095	mg/L		01/15/25 09:13	01/15/25 23:05	1
2-Methylphenol	0.00067	U	0.010	0.00067	mg/L		01/15/25 09:13	01/15/25 23:05	1
4-Methylphenol	0.00065	U	0.010	0.00065	mg/L		01/15/25 09:13	01/15/25 23:05	1
2-Nitrophenol	0.00075	U	0.010	0.00075	mg/L		01/15/25 09:13	01/15/25 23:05	1
2,4-Dimethylphenol	0.00062	U	0.010	0.00062	mg/L		01/15/25 09:13	01/15/25 23:05	1
2,4-Dichlorophenol	0.0011	U	0.010	0.0011	mg/L		01/15/25 09:13	01/15/25 23:05	1
4-Chloro-3-methylphenol	0.0013	U	0.010	0.0013	mg/L		01/15/25 09:13	01/15/25 23:05	1
2,4,6-Trichlorophenol	0.00086	U	0.010	0.00086	mg/L		01/15/25 09:13	01/15/25 23:05	1
2,4,5-Trichlorophenol	0.00088	U	0.010	0.00088	mg/L		01/15/25 09:13	01/15/25 23:05	1
2,4-Dinitrotoluene	0.0010	U	0.010	0.0010	mg/L		01/15/25 09:13	01/15/25 23:05	1
4-Nitrophenol	0.0040	U	0.020	0.0040	mg/L		01/15/25 09:13	01/15/25 23:05	1
4,6-Dinitro-2-methylphenol	0.0086	U	0.020	0.0086	mg/L		01/15/25 09:13	01/15/25 23:05	1
Pentachlorophenol	0.0066	U	0.020	0.0066	mg/L		01/15/25 09:13	01/15/25 23:05	1
Bis(2-chloroethyl)ether	0.00063	U	0.0010	0.00063	mg/L		01/15/25 09:13	01/15/25 23:05	1
N-Nitrosodi-n-propylamine	0.00043	U	0.0010	0.00043	mg/L		01/15/25 09:13	01/15/25 23:05	1
Hexachloroethane	0.00080	U	0.0020	0.00080	mg/L		01/15/25 09:13	01/15/25 23:05	1
Nitrobenzene	0.00057	U	0.0010	0.00057	mg/L		01/15/25 09:13	01/15/25 23:05	1

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Client Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

Client Sample ID: TW-1

Lab Sample ID: 460-318705-5

Date Collected: 01/13/25 12:00

Matrix: Water

Date Received: 01/13/25 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	0.00080	U	0.010	0.00080	mg/L		01/15/25 09:13	01/15/25 23:05	1
Naphthalene	0.00054	U	0.0020	0.00054	mg/L		01/15/25 09:13	01/15/25 23:05	1
4-Chloroaniline	0.0019	U	0.010	0.0019	mg/L		01/15/25 09:13	01/15/25 23:05	1
Hexachlorobutadiene	0.00078	U	0.0010	0.00078	mg/L		01/15/25 09:13	01/15/25 23:05	1
2-Methylnaphthalene	0.00053	U	0.010	0.00053	mg/L		01/15/25 09:13	01/15/25 23:05	1
Hexachlorocyclopentadiene	0.0036	U	0.010	0.0036	mg/L		01/15/25 09:13	01/15/25 23:05	1
2-Chloronaphthalene	0.0012	U	0.010	0.0012	mg/L		01/15/25 09:13	01/15/25 23:05	1
2-Nitroaniline	0.0012	U	0.010	0.0012	mg/L		01/15/25 09:13	01/15/25 23:05	1
Dimethyl phthalate	0.00077	U	0.010	0.00077	mg/L		01/15/25 09:13	01/15/25 23:05	1
Acenaphthylene	0.00082	U	0.010	0.00082	mg/L		01/15/25 09:13	01/15/25 23:05	1
2,6-Dinitrotoluene	0.00083	U	0.0020	0.00083	mg/L		01/15/25 09:13	01/15/25 23:05	1
3-Nitroaniline	0.0019	U	0.010	0.0019	mg/L		01/15/25 09:13	01/15/25 23:05	1
Acenaphthene	0.0011	U	0.010	0.0011	mg/L		01/15/25 09:13	01/15/25 23:05	1
Dibenzofuran	0.0011	U	0.010	0.0011	mg/L		01/15/25 09:13	01/15/25 23:05	1
2,4-Dinitrophenol	0.011	U	0.040	0.011	mg/L		01/15/25 09:13	01/15/25 23:05	1
Diethyl phthalate	0.00098	U	0.010	0.00098	mg/L		01/15/25 09:13	01/15/25 23:05	1
4-Chlorophenyl phenyl ether	0.0013	U	0.010	0.0013	mg/L		01/15/25 09:13	01/15/25 23:05	1
Fluorene	0.00091	U	0.010	0.00091	mg/L		01/15/25 09:13	01/15/25 23:05	1
4-Nitroaniline	0.0012	U	0.010	0.0012	mg/L		01/15/25 09:13	01/15/25 23:05	1
N-Nitrosodiphenylamine	0.00089	U	0.010	0.00089	mg/L		01/15/25 09:13	01/15/25 23:05	1
4-Bromophenyl phenyl ether	0.00075	U	0.010	0.00075	mg/L		01/15/25 09:13	01/15/25 23:05	1
Hexachlorobenzene	0.00040	U	0.0010	0.00040	mg/L		01/15/25 09:13	01/15/25 23:05	1
Phenanthrene	0.0013	U	0.010	0.0013	mg/L		01/15/25 09:13	01/15/25 23:05	1
Anthracene	0.0013	U	0.010	0.0013	mg/L		01/15/25 09:13	01/15/25 23:05	1
Carbazole	0.00068	U	0.010	0.00068	mg/L		01/15/25 09:13	01/15/25 23:05	1
Di-n-butyl phthalate	0.00084	U	0.010	0.00084	mg/L		01/15/25 09:13	01/15/25 23:05	1
Fluoranthene	0.00084	U	0.010	0.00084	mg/L		01/15/25 09:13	01/15/25 23:05	1
Pyrene	0.0016	U	0.010	0.0016	mg/L		01/15/25 09:13	01/15/25 23:05	1
Butyl benzyl phthalate	0.00085	U	0.010	0.00085	mg/L		01/15/25 09:13	01/15/25 23:05	1
Benzo[a]anthracene	0.00059	U	0.0010	0.00059	mg/L		01/15/25 09:13	01/15/25 23:05	1
Chrysene	0.00091	U	0.0020	0.00091	mg/L		01/15/25 09:13	01/15/25 23:05	1
Bis(2-ethylhexyl) phthalate	0.00080	U	0.0020	0.00080	mg/L		01/15/25 09:13	01/15/25 23:05	1
Di-n-octyl phthalate	0.0040	U	0.010	0.0040	mg/L		01/15/25 09:13	01/15/25 23:05	1
Benzo[b]fluoranthene	0.00068	U	0.0020	0.00068	mg/L		01/15/25 09:13	01/15/25 23:05	1
Benzo[k]fluoranthene	0.00067	U	0.0010	0.00067	mg/L		01/15/25 09:13	01/15/25 23:05	1
Benzo[a]pyrene	0.00041	U	0.0010	0.00041	mg/L		01/15/25 09:13	01/15/25 23:05	1
Indeno[1,2,3-cd]pyrene	0.00094	U	0.0020	0.00094	mg/L		01/15/25 09:13	01/15/25 23:05	1
Dibenz(a,h)anthracene	0.00072	U	0.0010	0.00072	mg/L		01/15/25 09:13	01/15/25 23:05	1
Benzo[g,h,i]perylene	0.00070	U	0.010	0.00070	mg/L		01/15/25 09:13	01/15/25 23:05	1
1,1'-Biphenyl	0.0012	U	0.010	0.0012	mg/L		01/15/25 09:13	01/15/25 23:05	1
Acetophenone	0.0023	U	0.010	0.0023	mg/L		01/15/25 09:13	01/15/25 23:05	1
Benzaldehyde	0.0021	U	0.010	0.0021	mg/L		01/15/25 09:13	01/15/25 23:05	1
Caprolactam	0.0022	U	0.010	0.0022	mg/L		01/15/25 09:13	01/15/25 23:05	1
Atrazine	0.0013	U	0.0020	0.0013	mg/L		01/15/25 09:13	01/15/25 23:05	1
2,2'-oxybis[1-chloropropane]	0.00063	U	0.010	0.00063	mg/L		01/15/25 09:13	01/15/25 23:05	1
1,2,4,5-Tetrachlorobenzene	0.0012	U	0.010	0.0012	mg/L		01/15/25 09:13	01/15/25 23:05	1
2,3,4,6-Tetrachlorophenol	0.00075	U	0.010	0.00075	mg/L		01/15/25 09:13	01/15/25 23:05	1
3,3'-Dichlorobenzidine	0.0014	U	0.010	0.0014	mg/L		01/15/25 09:13	01/15/25 23:05	1
Bis(2-chloroethoxy)methane	0.00059	U	0.010	0.00059	mg/L		01/15/25 09:13	01/15/25 23:05	1

Eurofins Edison

Client Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

Client Sample ID: TW-1

Lab Sample ID: 460-318705-5

Date Collected: 01/13/25 12:00

Matrix: Water

Date Received: 01/13/25 19:00

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		mg/L			N/A	01/15/25 09:13	01/15/25 23:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	94		51 - 145				01/15/25 09:13	01/15/25 23:05	1
Phenol-d5 (Surr)	44		10 - 56				01/15/25 09:13	01/15/25 23:05	1
Terphenyl-d14 (Surr)	30		13 - 159				01/15/25 09:13	01/15/25 23:05	1
2,4,6-Tribromophenol (Surr)	92		37 - 150				01/15/25 09:13	01/15/25 23:05	1
2-Fluorophenol (Surr)	62		16 - 80				01/15/25 09:13	01/15/25 23:05	1
2-Fluorobiphenyl	86		46 - 139				01/15/25 09:13	01/15/25 23:05	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0000030	U	0.000020	0.0000030	mg/L		01/15/25 19:57	01/16/25 04:13	1
alpha-BHC	0.0000070	U	0.000020	0.0000070	mg/L		01/15/25 19:57	01/16/25 04:13	1
beta-BHC	0.000015	U	0.000020	0.000015	mg/L		01/15/25 19:57	01/16/25 04:13	1
Chlordane (technical)	0.000055	U	0.00050	0.000055	mg/L		01/15/25 19:57	01/16/25 04:13	1
4,4'-DDD	0.0000060	U	0.000020	0.0000060	mg/L		01/15/25 19:57	01/16/25 04:13	1
4,4'-DDE	0.0000020	U	0.000020	0.0000020	mg/L		01/15/25 19:57	01/16/25 04:13	1
4,4'-DDT	0.0000040	U	0.000020	0.0000040	mg/L		01/15/25 19:57	01/16/25 04:13	1
delta-BHC	0.0000050	U	0.000020	0.0000050	mg/L		01/15/25 19:57	01/16/25 04:13	1
Dieldrin	0.0000030	U	0.000020	0.0000030	mg/L		01/15/25 19:57	01/16/25 04:13	1
Endosulfan I	0.0000020	U	0.000020	0.0000020	mg/L		01/15/25 19:57	01/16/25 04:13	1
Endosulfan II	0.0000040	U	0.000020	0.0000040	mg/L		01/15/25 19:57	01/16/25 04:13	1
Endosulfan sulfate	0.0000060	U	0.000020	0.0000060	mg/L		01/15/25 19:57	01/16/25 04:13	1
Endrin	0.0000040	U	0.000020	0.0000040	mg/L		01/15/25 19:57	01/16/25 04:13	1
Endrin aldehyde	0.0000080	U	0.000020	0.0000080	mg/L		01/15/25 19:57	01/16/25 04:13	1
Endrin ketone	0.0000080	U	0.000020	0.0000080	mg/L		01/15/25 19:57	01/16/25 04:13	1
gamma-BHC (Lindane)	0.000012	U	0.000020	0.000012	mg/L		01/15/25 19:57	01/16/25 04:13	1
Heptachlor	0.0000030	U	0.000020	0.0000030	mg/L		01/15/25 19:57	01/16/25 04:13	1
Heptachlor epoxide	0.0000050	U	0.000020	0.0000050	mg/L		01/15/25 19:57	01/16/25 04:13	1
Methoxychlor	0.0000040	U	0.000020	0.0000040	mg/L		01/15/25 19:57	01/16/25 04:13	1
Toxaphene	0.00011	U	0.00050	0.00011	mg/L		01/15/25 19:57	01/16/25 04:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	72		30 - 131				01/15/25 19:57	01/16/25 04:13	1
DCB Decachlorobiphenyl	67		30 - 131				01/15/25 19:57	01/16/25 04:13	1
Tetrachloro-m-xylene	68		34 - 120				01/15/25 19:57	01/16/25 04:13	1
Tetrachloro-m-xylene	70		34 - 120				01/15/25 19:57	01/16/25 04:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00012	U	0.00040	0.00012	mg/L		01/15/25 19:51	01/16/25 08:50	1
Aroclor 1221	0.00012	U	0.00040	0.00012	mg/L		01/15/25 19:51	01/16/25 08:50	1
Aroclor 1232	0.00012	U	0.00040	0.00012	mg/L		01/15/25 19:51	01/16/25 08:50	1
Aroclor 1242	0.00012	U	0.00040	0.00012	mg/L		01/15/25 19:51	01/16/25 08:50	1
Aroclor 1248	0.00012	U	0.00040	0.00012	mg/L		01/15/25 19:51	01/16/25 08:50	1
Aroclor 1254	0.00011	U	0.00040	0.00011	mg/L		01/15/25 19:51	01/16/25 08:50	1
Aroclor 1260	0.00011	U	0.00040	0.00011	mg/L		01/15/25 19:51	01/16/25 08:50	1
PCB-1262	0.00011	U	0.00040	0.00011	mg/L		01/15/25 19:51	01/16/25 08:50	1
Aroclor 1268	0.00011	U	0.00040	0.00011	mg/L		01/15/25 19:51	01/16/25 08:50	1
Polychlorinated biphenyls, Total	0.00012	U	0.00040	0.00012	mg/L		01/15/25 19:51	01/16/25 08:50	1

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Client Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

Client Sample ID: TW-1

Lab Sample ID: 460-318705-5

Date Collected: 01/13/25 12:00

Matrix: Water

Date Received: 01/13/25 19:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	58		18 - 145	01/15/25 19:51	01/16/25 08:50	1
DCB Decachlorobiphenyl	54		18 - 145	01/15/25 19:51	01/16/25 08:50	1
Tetrachloro-m-xylene	70		21 - 124	01/15/25 19:51	01/16/25 08:50	1
Tetrachloro-m-xylene	66		21 - 124	01/15/25 19:51	01/16/25 08:50	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	63.8		0.040	0.020	mg/L		01/16/25 13:16	01/17/25 10:58	1
Antimony	0.00090	J	0.0020	0.00076	mg/L		01/16/25 13:16	01/17/25 10:58	1
Arsenic	0.032		0.0020	0.00089	mg/L		01/16/25 13:16	01/17/25 10:58	1
Barium	0.56		0.0040	0.00091	mg/L		01/16/25 13:16	01/17/25 10:58	1
Beryllium	0.0052		0.00080	0.00013	mg/L		01/16/25 13:16	01/17/25 10:58	1
Cadmium	0.00062	J	0.0020	0.00039	mg/L		01/16/25 13:16	01/17/25 10:58	1
Calcium	48.1		0.50	0.054	mg/L		01/16/25 13:16	01/17/25 10:58	1
Chromium	0.22		0.0040	0.0025	mg/L		01/16/25 13:16	01/17/25 10:58	1
Cobalt	0.064		0.0040	0.00071	mg/L		01/16/25 13:16	01/17/25 10:58	1
Copper	0.11		0.0040	0.0025	mg/L		01/16/25 13:16	01/17/25 10:58	1
Iron	161		0.12	0.058	mg/L		01/16/25 13:16	01/17/25 10:58	1
Lead	0.11		0.0012	0.00084	mg/L		01/16/25 13:16	01/17/25 10:58	1
Magnesium	38.0		0.20	0.047	mg/L		01/16/25 13:16	01/17/25 10:58	1
Manganese	6.7		0.0080	0.0015	mg/L		01/16/25 13:16	01/17/25 10:58	1
Nickel	0.11		0.0040	0.00091	mg/L		01/16/25 13:16	01/17/25 10:58	1
Potassium	10.6		0.20	0.11	mg/L		01/16/25 13:16	01/17/25 10:58	1
Selenium	0.0017	J	0.0025	0.00059	mg/L		01/16/25 13:16	01/17/25 10:58	1
Silver	0.00029	U	0.0020	0.00029	mg/L		01/16/25 13:16	01/17/25 10:58	1
Sodium	191		0.50	0.22	mg/L		01/16/25 13:16	01/17/25 10:58	1
Thallium	0.00024	J	0.00080	0.00021	mg/L		01/16/25 13:16	01/17/25 10:58	1
Vanadium	0.19		0.0040	0.00068	mg/L		01/16/25 13:16	01/17/25 10:58	1
Zinc	0.31		0.016	0.0065	mg/L		01/16/25 13:16	01/17/25 10:58	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00017	J	0.00020	0.000091	mg/L		01/15/25 11:07	01/15/25 14:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.0040	U	0.010	0.0040	mg/L		01/15/25 17:46	01/15/25 21:14	1

Client Sample ID: TW-2

Lab Sample ID: 460-318705-6

Date Collected: 01/13/25 12:30

Matrix: Water

Date Received: 01/13/25 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00024	U	0.0010	0.00024	mg/L			01/16/25 11:48	1
1,1,2,2-Tetrachloroethane	0.00037	U	0.0010	0.00037	mg/L			01/16/25 11:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00031	U	0.0010	0.00031	mg/L			01/16/25 11:48	1
1,1,2-Trichloroethane	0.00020	U	0.0010	0.00020	mg/L			01/16/25 11:48	1
1,1-Dichloroethane	0.00026	U	0.0010	0.00026	mg/L			01/16/25 11:48	1
1,1-Dichloroethene	0.00026	U	0.0010	0.00026	mg/L			01/16/25 11:48	1
1,2,3-Trichlorobenzene	0.00036	U	0.0010	0.00036	mg/L			01/16/25 11:48	1

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Client Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

Client Sample ID: TW-2

Lab Sample ID: 460-318705-6

Date Collected: 01/13/25 12:30

Matrix: Water

Date Received: 01/13/25 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	0.00037	U	0.0010	0.00037	mg/L			01/16/25 11:48	1
1,2-Dibromo-3-Chloropropane	0.00038	U	0.0010	0.00038	mg/L			01/16/25 11:48	1
1,2-Dichlorobenzene	0.00021	U	0.0010	0.00021	mg/L			01/16/25 11:48	1
1,2-Dichloroethane	0.00043	U	0.0010	0.00043	mg/L			01/16/25 11:48	1
1,2-Dichloropropane	0.00035	U	0.0010	0.00035	mg/L			01/16/25 11:48	1
1,3-Dichlorobenzene	0.00034	U	0.0010	0.00034	mg/L			01/16/25 11:48	1
1,4-Dichlorobenzene	0.00033	U	0.0010	0.00033	mg/L			01/16/25 11:48	1
1,4-Dioxane	0.028	U	0.050	0.028	mg/L			01/16/25 11:48	1
2-Butanone (MEK)	0.0019	U *	0.0050	0.0019	mg/L			01/16/25 11:48	1
2-Hexanone (MBK)	0.0011	U *	0.0050	0.0011	mg/L			01/16/25 11:48	1
4-Methyl-2-pentanone (MIBK)	0.0013	U	0.0050	0.0013	mg/L			01/16/25 11:48	1
Acetone	0.0059		0.0050	0.0044	mg/L			01/16/25 11:48	1
Benzene	0.00020	U	0.0010	0.00020	mg/L			01/16/25 11:48	1
Bromoform	0.00054	U *	0.0010	0.00054	mg/L			01/16/25 11:48	1
Bromomethane	0.00055	U	0.0010	0.00055	mg/L			01/16/25 11:48	1
Carbon disulfide	0.00082	U	0.0010	0.00082	mg/L			01/16/25 11:48	1
Carbon tetrachloride	0.00021	U	0.0010	0.00021	mg/L			01/16/25 11:48	1
Chlorobenzene	0.00038	U	0.0010	0.00038	mg/L			01/16/25 11:48	1
Chlorobromomethane	0.00041	U	0.0010	0.00041	mg/L			01/16/25 11:48	1
Chlorodibromomethane	0.00028	U F1	0.0010	0.00028	mg/L			01/16/25 11:48	1
Chloroethane	0.00032	U	0.0010	0.00032	mg/L			01/16/25 11:48	1
Chloroform	0.00033	U	0.0010	0.00033	mg/L			01/16/25 11:48	1
Chloromethane	0.00040	U	0.0010	0.00040	mg/L			01/16/25 11:48	1
cis-1,2-Dichloroethene	0.00022	U	0.0010	0.00022	mg/L			01/16/25 11:48	1
cis-1,3-Dichloropropene	0.00022	U	0.0010	0.00022	mg/L			01/16/25 11:48	1
Cyclohexane	0.00032	U	0.0010	0.00032	mg/L			01/16/25 11:48	1
Dichlorobromomethane	0.00034	U	0.0010	0.00034	mg/L			01/16/25 11:48	1
Dichlorodifluoromethane	0.00031	U	0.0010	0.00031	mg/L			01/16/25 11:48	1
Ethylbenzene	0.00030	U	0.0010	0.00030	mg/L			01/16/25 11:48	1
1,2-Dibromoethane	0.00050	U	0.0010	0.00050	mg/L			01/16/25 11:48	1
Isopropylbenzene	0.00034	U	0.0010	0.00034	mg/L			01/16/25 11:48	1
Methyl acetate	0.00079	U	0.0050	0.00079	mg/L			01/16/25 11:48	1
Methyl tert-butyl ether	0.00022	U	0.0010	0.00022	mg/L			01/16/25 11:48	1
Methylcyclohexane	0.00071	U	0.0010	0.00071	mg/L			01/16/25 11:48	1
Methylene Chloride	0.00032	U	0.0010	0.00032	mg/L			01/16/25 11:48	1
m-Xylene & p-Xylene	0.00030	U	0.0010	0.00030	mg/L			01/16/25 11:48	1
o-Xylene	0.00036	U	0.0010	0.00036	mg/L			01/16/25 11:48	1
Styrene	0.00042	U	0.0010	0.00042	mg/L			01/16/25 11:48	1
Tetrachloroethene	0.00025	U	0.0010	0.00025	mg/L			01/16/25 11:48	1
Toluene	0.00038	U	0.0010	0.00038	mg/L			01/16/25 11:48	1
trans-1,2-Dichloroethene	0.00024	U	0.0010	0.00024	mg/L			01/16/25 11:48	1
trans-1,3-Dichloropropene	0.00022	U	0.0010	0.00022	mg/L			01/16/25 11:48	1
Trichloroethene	0.00031	U	0.0010	0.00031	mg/L			01/16/25 11:48	1
Trichlorofluoromethane	0.00032	U	0.0010	0.00032	mg/L			01/16/25 11:48	1
Vinyl chloride	0.00017	U	0.0010	0.00017	mg/L			01/16/25 11:48	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		mg/L			N/A		01/16/25 11:48	1

Eurofins Edison

Client Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

Client Sample ID: TW-2

Lab Sample ID: 460-318705-6

Date Collected: 01/13/25 12:30

Matrix: Water

Date Received: 01/13/25 19:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 128		01/16/25 11:48	1
4-Bromofluorobenzene	104		76 - 120		01/16/25 11:48	1
Dibromofluoromethane (Surr)	106		77 - 132		01/16/25 11:48	1
Toluene-d8 (Surr)	96		80 - 120		01/16/25 11:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	0.00029	U	0.010	0.00029	mg/L		01/15/25 09:13	01/15/25 23:26	1
2-Chlorophenol	0.00095	U	0.010	0.00095	mg/L		01/15/25 09:13	01/15/25 23:26	1
2-Methylphenol	0.00067	U	0.010	0.00067	mg/L		01/15/25 09:13	01/15/25 23:26	1
4-Methylphenol	0.00065	U	0.010	0.00065	mg/L		01/15/25 09:13	01/15/25 23:26	1
2-Nitrophenol	0.00075	U	0.010	0.00075	mg/L		01/15/25 09:13	01/15/25 23:26	1
2,4-Dimethylphenol	0.00062	U	0.010	0.00062	mg/L		01/15/25 09:13	01/15/25 23:26	1
2,4-Dichlorophenol	0.0011	U	0.010	0.0011	mg/L		01/15/25 09:13	01/15/25 23:26	1
4-Chloro-3-methylphenol	0.0013	U	0.010	0.0013	mg/L		01/15/25 09:13	01/15/25 23:26	1
2,4,6-Trichlorophenol	0.00086	U	0.010	0.00086	mg/L		01/15/25 09:13	01/15/25 23:26	1
2,4,5-Trichlorophenol	0.00088	U	0.010	0.00088	mg/L		01/15/25 09:13	01/15/25 23:26	1
2,4-Dinitrotoluene	0.0010	U	0.010	0.0010	mg/L		01/15/25 09:13	01/15/25 23:26	1
4-Nitrophenol	0.0040	U	0.020	0.0040	mg/L		01/15/25 09:13	01/15/25 23:26	1
4,6-Dinitro-2-methylphenol	0.0086	U	0.020	0.0086	mg/L		01/15/25 09:13	01/15/25 23:26	1
Pentachlorophenol	0.0066	U	0.020	0.0066	mg/L		01/15/25 09:13	01/15/25 23:26	1
Bis(2-chloroethyl)ether	0.00063	U	0.0010	0.00063	mg/L		01/15/25 09:13	01/15/25 23:26	1
N-Nitrosodi-n-propylamine	0.00043	U	0.0010	0.00043	mg/L		01/15/25 09:13	01/15/25 23:26	1
Hexachloroethane	0.00080	U	0.0020	0.00080	mg/L		01/15/25 09:13	01/15/25 23:26	1
Nitrobenzene	0.00057	U	0.0010	0.00057	mg/L		01/15/25 09:13	01/15/25 23:26	1
Isophorone	0.00080	U	0.010	0.00080	mg/L		01/15/25 09:13	01/15/25 23:26	1
Naphthalene	0.00054	U	0.0020	0.00054	mg/L		01/15/25 09:13	01/15/25 23:26	1
4-Chloroaniline	0.0019	U	0.010	0.0019	mg/L		01/15/25 09:13	01/15/25 23:26	1
Hexachlorobutadiene	0.00078	U	0.0010	0.00078	mg/L		01/15/25 09:13	01/15/25 23:26	1
2-Methylnaphthalene	0.00053	U	0.010	0.00053	mg/L		01/15/25 09:13	01/15/25 23:26	1
Hexachlorocyclopentadiene	0.0036	U	0.010	0.0036	mg/L		01/15/25 09:13	01/15/25 23:26	1
2-Chloronaphthalene	0.0012	U	0.010	0.0012	mg/L		01/15/25 09:13	01/15/25 23:26	1
2-Nitroaniline	0.0012	U	0.010	0.0012	mg/L		01/15/25 09:13	01/15/25 23:26	1
Dimethyl phthalate	0.00077	U	0.010	0.00077	mg/L		01/15/25 09:13	01/15/25 23:26	1
Acenaphthylene	0.00082	U	0.010	0.00082	mg/L		01/15/25 09:13	01/15/25 23:26	1
2,6-Dinitrotoluene	0.00083	U	0.0020	0.00083	mg/L		01/15/25 09:13	01/15/25 23:26	1
3-Nitroaniline	0.0019	U	0.010	0.0019	mg/L		01/15/25 09:13	01/15/25 23:26	1
Acenaphthene	0.0011	U	0.010	0.0011	mg/L		01/15/25 09:13	01/15/25 23:26	1
Dibenzofuran	0.0011	U	0.010	0.0011	mg/L		01/15/25 09:13	01/15/25 23:26	1
2,4-Dinitrophenol	0.011	U	0.040	0.011	mg/L		01/15/25 09:13	01/15/25 23:26	1
Diethyl phthalate	0.00098	U	0.010	0.00098	mg/L		01/15/25 09:13	01/15/25 23:26	1
4-Chlorophenyl phenyl ether	0.0013	U	0.010	0.0013	mg/L		01/15/25 09:13	01/15/25 23:26	1
Fluorene	0.00091	U	0.010	0.00091	mg/L		01/15/25 09:13	01/15/25 23:26	1
4-Nitroaniline	0.0012	U	0.010	0.0012	mg/L		01/15/25 09:13	01/15/25 23:26	1
N-Nitrosodiphenylamine	0.00089	U	0.010	0.00089	mg/L		01/15/25 09:13	01/15/25 23:26	1
4-Bromophenyl phenyl ether	0.00075	U	0.010	0.00075	mg/L		01/15/25 09:13	01/15/25 23:26	1
Hexachlorobenzene	0.00040	U	0.0010	0.00040	mg/L		01/15/25 09:13	01/15/25 23:26	1
Phenanthrene	0.0013	U	0.010	0.0013	mg/L		01/15/25 09:13	01/15/25 23:26	1
Anthracene	0.0013	U	0.010	0.0013	mg/L		01/15/25 09:13	01/15/25 23:26	1
Carbazole	0.00068	U	0.010	0.00068	mg/L		01/15/25 09:13	01/15/25 23:26	1

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Client Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

Client Sample ID: TW-2

Lab Sample ID: 460-318705-6

Date Collected: 01/13/25 12:30

Matrix: Water

Date Received: 01/13/25 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	0.00084	U	0.010	0.00084	mg/L		01/15/25 09:13	01/15/25 23:26	1
Fluoranthene	0.00084	U	0.010	0.00084	mg/L		01/15/25 09:13	01/15/25 23:26	1
Pyrene	0.0016	U	0.010	0.0016	mg/L		01/15/25 09:13	01/15/25 23:26	1
Butyl benzyl phthalate	0.00085	U	0.010	0.00085	mg/L		01/15/25 09:13	01/15/25 23:26	1
Benzo[a]anthracene	0.00059	U	0.0010	0.00059	mg/L		01/15/25 09:13	01/15/25 23:26	1
Chrysene	0.00091	U	0.0020	0.00091	mg/L		01/15/25 09:13	01/15/25 23:26	1
Bis(2-ethylhexyl) phthalate	0.00080	U	0.0020	0.00080	mg/L		01/15/25 09:13	01/15/25 23:26	1
Di-n-octyl phthalate	0.0040	U	0.010	0.0040	mg/L		01/15/25 09:13	01/15/25 23:26	1
Benzo[b]fluoranthene	0.00068	U	0.0020	0.00068	mg/L		01/15/25 09:13	01/15/25 23:26	1
Benzo[k]fluoranthene	0.00067	U	0.0010	0.00067	mg/L		01/15/25 09:13	01/15/25 23:26	1
Benzo[a]pyrene	0.00041	U	0.0010	0.00041	mg/L		01/15/25 09:13	01/15/25 23:26	1
Indeno[1,2,3-cd]pyrene	0.00094	U	0.0020	0.00094	mg/L		01/15/25 09:13	01/15/25 23:26	1
Dibenz(a,h)anthracene	0.00072	U	0.0010	0.00072	mg/L		01/15/25 09:13	01/15/25 23:26	1
Benzo[g,h,i]perylene	0.00070	U	0.010	0.00070	mg/L		01/15/25 09:13	01/15/25 23:26	1
1,1'-Biphenyl	0.0012	U	0.010	0.0012	mg/L		01/15/25 09:13	01/15/25 23:26	1
Acetophenone	0.0023	U	0.010	0.0023	mg/L		01/15/25 09:13	01/15/25 23:26	1
Benzaldehyde	0.0021	U	0.010	0.0021	mg/L		01/15/25 09:13	01/15/25 23:26	1
Caprolactam	0.0022	U	0.010	0.0022	mg/L		01/15/25 09:13	01/15/25 23:26	1
Atrazine	0.0013	U	0.0020	0.0013	mg/L		01/15/25 09:13	01/15/25 23:26	1
2,2'-oxybis[1-chloropropane]	0.00063	U	0.010	0.00063	mg/L		01/15/25 09:13	01/15/25 23:26	1
1,2,4,5-Tetrachlorobenzene	0.0012	U	0.010	0.0012	mg/L		01/15/25 09:13	01/15/25 23:26	1
2,3,4,6-Tetrachlorophenol	0.00075	U	0.010	0.00075	mg/L		01/15/25 09:13	01/15/25 23:26	1
3,3'-Dichlorobenzidine	0.0014	U	0.010	0.0014	mg/L		01/15/25 09:13	01/15/25 23:26	1
Bis(2-chloroethoxy)methane	0.00059	U	0.010	0.00059	mg/L		01/15/25 09:13	01/15/25 23:26	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		mg/L			N/A	01/15/25 09:13	01/15/25 23:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	94		51 - 145	01/15/25 09:13	01/15/25 23:26	1
Phenol-d5 (Surr)	41		10 - 56	01/15/25 09:13	01/15/25 23:26	1
Terphenyl-d14 (Surr)	35		13 - 159	01/15/25 09:13	01/15/25 23:26	1
2,4,6-Tribromophenol (Surr)	91		37 - 150	01/15/25 09:13	01/15/25 23:26	1
2-Fluorophenol (Surr)	58		16 - 80	01/15/25 09:13	01/15/25 23:26	1
2-Fluorobiphenyl	87		46 - 139	01/15/25 09:13	01/15/25 23:26	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0000030	U	0.000020	0.0000030	mg/L		01/17/25 10:16	01/17/25 15:13	1
alpha-BHC	0.0000070	U	0.000020	0.0000070	mg/L		01/17/25 10:16	01/17/25 15:13	1
beta-BHC	0.000015	U	0.000020	0.000015	mg/L		01/17/25 10:16	01/17/25 15:13	1
Chlordane (technical)	0.000055	U	0.00050	0.000055	mg/L		01/17/25 10:16	01/17/25 15:13	1
4,4'-DDD	0.0000060	U	0.000020	0.0000060	mg/L		01/17/25 10:16	01/17/25 15:13	1
4,4'-DDE	0.0000020	U	0.000020	0.0000020	mg/L		01/17/25 10:16	01/17/25 15:13	1
4,4'-DDT	0.0000040	U	0.000020	0.0000040	mg/L		01/17/25 10:16	01/17/25 15:13	1
delta-BHC	0.0000050	U	0.000020	0.0000050	mg/L		01/17/25 10:16	01/17/25 15:13	1
Dieldrin	0.0000030	U	0.000020	0.0000030	mg/L		01/17/25 10:16	01/17/25 15:13	1
Endosulfan I	0.0000020	U	0.000020	0.0000020	mg/L		01/17/25 10:16	01/17/25 15:13	1
Endosulfan II	0.0000040	U	0.000020	0.0000040	mg/L		01/17/25 10:16	01/17/25 15:13	1
Endosulfan sulfate	0.0000060	U	0.000020	0.0000060	mg/L		01/17/25 10:16	01/17/25 15:13	1

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Client Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

Client Sample ID: TW-2

Lab Sample ID: 460-318705-6

Date Collected: 01/13/25 12:30

Matrix: Water

Date Received: 01/13/25 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin	0.0000040	U	0.000020	0.0000040	mg/L		01/17/25 10:16	01/17/25 15:13	1
Endrin aldehyde	0.0000080	U	0.000020	0.0000080	mg/L		01/17/25 10:16	01/17/25 15:13	1
Endrin ketone	0.0000080	U	0.000020	0.0000080	mg/L		01/17/25 10:16	01/17/25 15:13	1
gamma-BHC (Lindane)	0.000012	U	0.000020	0.000012	mg/L		01/17/25 10:16	01/17/25 15:13	1
Heptachlor	0.0000030	U	0.000020	0.0000030	mg/L		01/17/25 10:16	01/17/25 15:13	1
Heptachlor epoxide	0.0000050	U	0.000020	0.0000050	mg/L		01/17/25 10:16	01/17/25 15:13	1
Methoxychlor	0.0000040	U	0.000020	0.0000040	mg/L		01/17/25 10:16	01/17/25 15:13	1
Toxaphene	0.00011	U	0.00050	0.00011	mg/L		01/17/25 10:16	01/17/25 15:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	88		30 - 131	01/17/25 10:16	01/17/25 15:13	1
DCB Decachlorobiphenyl	90		30 - 131	01/17/25 10:16	01/17/25 15:13	1
Tetrachloro-m-xylene	64		34 - 120	01/17/25 10:16	01/17/25 15:13	1
Tetrachloro-m-xylene	226	S1+	34 - 120	01/17/25 10:16	01/17/25 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00012	U *	0.00040	0.00012	mg/L		01/17/25 10:14	01/17/25 14:45	1
Aroclor 1221	0.00012	U	0.00040	0.00012	mg/L		01/17/25 10:14	01/17/25 14:45	1
Aroclor 1232	0.00012	U	0.00040	0.00012	mg/L		01/17/25 10:14	01/17/25 14:45	1
Aroclor 1242	0.00012	U	0.00040	0.00012	mg/L		01/17/25 10:14	01/17/25 14:45	1
Aroclor 1248	0.00012	U	0.00040	0.00012	mg/L		01/17/25 10:14	01/17/25 14:45	1
Aroclor 1254	0.00011	U	0.00040	0.00011	mg/L		01/17/25 10:14	01/17/25 14:45	1
Aroclor 1260	0.00011	U *	0.00040	0.00011	mg/L		01/17/25 10:14	01/17/25 14:45	1
PCB-1262	0.00011	U	0.00040	0.00011	mg/L		01/17/25 10:14	01/17/25 14:45	1
Aroclor 1268	0.00011	U	0.00040	0.00011	mg/L		01/17/25 10:14	01/17/25 14:45	1
Polychlorinated biphenyls, Total	0.00012	U *	0.00040	0.00012	mg/L		01/17/25 10:14	01/17/25 14:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	71		18 - 145	01/17/25 10:14	01/17/25 14:45	1
DCB Decachlorobiphenyl	52		18 - 145	01/17/25 10:14	01/17/25 14:45	1
Tetrachloro-m-xylene	55		21 - 124	01/17/25 10:14	01/17/25 14:45	1
Tetrachloro-m-xylene	42		21 - 124	01/17/25 10:14	01/17/25 14:45	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	26.9		0.040	0.020	mg/L		01/16/25 13:16	01/17/25 11:01	1
Antimony	0.00076	U	0.0020	0.00076	mg/L		01/16/25 13:16	01/17/25 11:01	1
Arsenic	0.0051		0.0020	0.00089	mg/L		01/16/25 13:16	01/17/25 11:01	1
Barium	0.65		0.0040	0.00091	mg/L		01/16/25 13:16	01/17/25 11:01	1
Beryllium	0.0036		0.00080	0.00013	mg/L		01/16/25 13:16	01/17/25 11:01	1
Cadmium	0.012		0.0020	0.00039	mg/L		01/16/25 13:16	01/17/25 11:01	1
Calcium	338		0.50	0.054	mg/L		01/16/25 13:16	01/17/25 11:01	1
Chromium	0.057		0.0040	0.0025	mg/L		01/16/25 13:16	01/17/25 11:01	1
Cobalt	0.098		0.0040	0.00071	mg/L		01/16/25 13:16	01/17/25 11:01	1
Copper	0.055		0.0040	0.0025	mg/L		01/16/25 13:16	01/17/25 11:01	1
Iron	112		0.12	0.058	mg/L		01/16/25 13:16	01/17/25 11:01	1
Lead	0.043		0.0012	0.00084	mg/L		01/16/25 13:16	01/17/25 11:01	1
Magnesium	232		0.20	0.047	mg/L		01/16/25 13:16	01/17/25 11:01	1
Manganese	10		0.0080	0.0015	mg/L		01/16/25 13:16	01/17/25 11:01	1

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Client Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

Client Sample ID: TW-2

Lab Sample ID: 460-318705-6

Date Collected: 01/13/25 12:30

Matrix: Water

Date Received: 01/13/25 19:00

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	0.22		0.0040	0.00091	mg/L		01/16/25 13:16	01/17/25 11:01	1
Potassium	43.7		0.20	0.11	mg/L		01/16/25 13:16	01/17/25 11:01	1
Selenium	0.00059	U	0.0025	0.00059	mg/L		01/16/25 13:16	01/17/25 11:01	1
Silver	0.00029	U	0.0020	0.00029	mg/L		01/16/25 13:16	01/17/25 11:01	1
Sodium	122		0.50	0.22	mg/L		01/16/25 13:16	01/17/25 11:01	1
Thallium	0.00025	J	0.00080	0.00021	mg/L		01/16/25 13:16	01/17/25 11:01	1
Vanadium	0.059		0.0040	0.00068	mg/L		01/16/25 13:16	01/17/25 11:01	1
Zinc	0.28		0.016	0.0065	mg/L		01/16/25 13:16	01/17/25 11:01	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00011	J	0.00020	0.000091	mg/L		01/15/25 11:07	01/15/25 14:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.0040	U	0.010	0.0040	mg/L		01/15/25 17:46	01/15/25 21:16	1

Surrogate Summary

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (70-130)	BFB (70-130)	DBFM (70-130)	TOL (70-130)
460-318705-1	TB-1	103	100	99	98
460-318705-2	TB-2	108	101	102	99
460-318705-3	TB-3	111	103	104	98
460-318705-4	TB-4	106	98	99	96
LB3 460-1016506/1-A	Method Blank	101	105	101	100
LCS 460-1016958/16	Lab Control Sample	103	105	101	99
LCS 460-1017079/2	Lab Control Sample	107	104	102	100
LCSD 460-1016958/17	Lab Control Sample Dup	106	106	103	102
LCSD 460-1017079/3	Lab Control Sample Dup	107	101	103	101
MB 460-1016958/19	Method Blank	104	105	101	100
MB 460-1017079/7	Method Blank	114	106	105	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (70-128)	BFB (76-120)	DBFM (77-132)	TOL (80-120)
460-318705-5	TW-1	93	98	108	96
460-318705-6	TW-2	96	104	106	96
460-318705-6 MS	TW-2	92	100	103	95
460-318705-6 MSD	TW-2	92	102	104	95
LCS 460-1016782/6	Lab Control Sample	90	104	102	96
MB 460-1016782/10	Method Blank	91	104	104	96

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (30-130)	FBP (30-130)	2FP (30-130)	NBZ (30-130)	PHL (30-130)	TPHL (30-130)
460-318705-1	TB-1	91	85	96	92	93	93
460-318705-2	TB-2	93	85	94	91	92	93
460-318705-3	TB-3	98	91	101	99	97	97
460-318705-4	TB-4	91	87	98	94	95	97
LCS 460-1016733/2-A	Lab Control Sample	100	90	93	93	95	86
LCSD 460-1016733/3-A	Lab Control Sample Dup	99	90	95	95	97	87
MB 460-1016733/1-A	Method Blank	93	86	99	98	97	98

Surrogate Legend

Eurofins Edison

Surrogate Summary

Client: Colliers Engineering and Design Inc

Job ID: 460-318705-1

Project/Site: City of Chester

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHL = Terphenyl-d14 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		NBZ (51-145)	PHL (10-56)	TPHL (13-159)	TBP (37-150)	2FP (16-80)	FBP (46-139)
460-318705-5	TW-1	94	44	30	92	62	86
460-318705-6	TW-2	94	41	35	91	58	87
LCS 460-1016420/2-A	Lab Control Sample	84	26	75	88	40	74
LCSD 460-1016420/3-A	Lab Control Sample Dup	84	26	74	87	41	75
MB 460-1016420/1-A	Method Blank	91	28	90	88	43	79

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHL = Terphenyl-d14 (Surr)

TBP = 2,4,6-Tribromophenol (Surr)

2FP = 2-Fluorophenol (Surr)

FBP = 2-Fluorobiphenyl

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TCX1 (30-150)	TCX2 (30-150)	DCBP1 (30-150)	DCBP2 (30-150)
460-318705-1	TB-1	52	49	64	61
460-318705-2	TB-2	87	83	101	102
460-318705-3	TB-3	51	48	65	61
460-318705-4	TB-4	66	62	77	78
LCS 460-1016479/2-A	Lab Control Sample	75	69	81	80
LCSD 460-1016479/3-A	Lab Control Sample Dup	81	73	81	84
MB 460-1016479/1-A	Method Blank	83	80	95	98

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1 (30-131)	DCBP2 (30-131)	TCX1 (34-120)	TCX2 (34-120)
460-318705-5	TW-1	67	72	70	68
460-318705-6	TW-2	90	88	226 S1+	64
LCS 460-1016730/2-A	Lab Control Sample	62	66	76	71
LCS 460-1017027/2-A	Lab Control Sample	75	75	77	77
LCSD 460-1016730/3-A	Lab Control Sample Dup	64	70	75	71
LCSD 460-1017027/3-A	Lab Control Sample Dup	73	73	73	74
MB 460-1016730/1-A	Method Blank	69	69	76	75

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Surrogate Summary

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCBP1 (30-131)	DCBP2 (30-131)	TCX1 (34-120)	TCX2 (34-120)
MB 460-1017027/1-A	Method Blank	84	87	84	87
Surrogate Legend					
DCBP = DCB Decachlorobiphenyl					
TCX = Tetrachloro-m-xylene					

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCBP1 (30-150)	DCBP2 (30-150)	TCX1 (30-150)	TCX2 (30-150)
460-318705-1	TB-1	72	76	64	62
460-318705-2	TB-2	105	108	95	94
460-318705-3	TB-3	63	61	56	51
460-318705-4	TB-4	80	82	71	70
LCS 460-1016478/2-A	Lab Control Sample	99	100	86	85
LCSD 460-1016478/3-A	Lab Control Sample Dup	90	93	80	79
MB 460-1016478/1-A	Method Blank	100	98	85	82
Surrogate Legend					
DCBP = DCB Decachlorobiphenyl					
TCX = Tetrachloro-m-xylene					

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCBP1 (18-145)	DCBP2 (18-145)	TCX1 (21-124)	TCX2 (21-124)
460-318705-5	TW-1	54	58	66	70
460-318705-6	TW-2	52	71	42	55
LCS 460-1016728/2-A	Lab Control Sample	65	69	86	85
LCS 460-1016942/2-A	Lab Control Sample	107	79	146 S1+	104
LCSD 460-1016728/3-A	Lab Control Sample Dup	66	66	87	86
LCSD 460-1016942/3-A	Lab Control Sample Dup	112	80	151 S1+	99
MB 460-1016728/1-A	Method Blank	61	62	78	79
MB 460-1016942/1-A	Method Blank	63	48	80	63
Surrogate Legend					
DCBP = DCB Decachlorobiphenyl					
TCX = Tetrachloro-m-xylene					

QC Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

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

Lab Sample ID: LB3 460-1016506/1-A

Matrix: Solid

Analysis Batch: 1016958

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1016506

Analyte	LB3	LB3	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	0.00023	U	0.0010	0.00023	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
1,1,2,2-Tetrachloroethane	0.00021	U	0.0010	0.00021	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00030	U	0.0010	0.00030	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
1,1,2-Trichloroethane	0.00018	U	0.0010	0.00018	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
1,1-Dichloroethane	0.00021	U	0.0010	0.00021	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
1,1-Dichloroethene	0.00023	U	0.0010	0.00023	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
1,2,3-Trichlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
1,2,4-Trichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
1,2-Dibromo-3-Chloropropane	0.00046	U	0.0010	0.00046	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
1,2-Dichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
1,2-Dichloroethane	0.00030	U	0.0010	0.00030	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
1,2-Dichloropropane	0.00042	U	0.0010	0.00042	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
1,3-Dichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
1,4-Dichlorobenzene	0.00023	U	0.0010	0.00023	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
1,4-Dioxane	0.0092	U	0.10	0.0092	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
2-Butanone (MEK)	0.00037	U	0.0050	0.00037	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
2-Hexanone (MBK)	0.0017	U	0.0050	0.0017	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
4-Methyl-2-pentanone (MIBK)	0.0016	U	0.0050	0.0016	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
Acetone	0.0057	U	0.0060	0.0057	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
Benzene	0.00026	U	0.0010	0.00026	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
Bromoform	0.00043	U	0.0010	0.00043	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
Bromomethane	0.0010	U	0.0020	0.0010	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
Carbon disulfide	0.00027	U	0.0010	0.00027	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
Carbon tetrachloride	0.00039	U	0.0010	0.00039	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
Chlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
Chlorobromomethane	0.00028	U	0.0010	0.00028	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
Chlorodibromomethane	0.00019	U	0.0010	0.00019	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
Chloroethane	0.00052	U	0.0010	0.00052	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
Chloroform	0.00097	U	0.0010	0.00097	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
Chloromethane	0.00044	U	0.0010	0.00044	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
cis-1,2-Dichloroethene	0.00036	U	0.0010	0.00036	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
cis-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
Cyclohexane	0.00022	U	0.0010	0.00022	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
Dichlorobromomethane	0.00026	U	0.0010	0.00026	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
Dichlorodifluoromethane	0.00034	U	0.0010	0.00034	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
Ethylbenzene	0.00020	U	0.0010	0.00020	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
1,2-Dibromoethane	0.00018	U	0.0010	0.00018	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
Isopropylbenzene	0.00029	U	0.0010	0.00029	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
Methyl acetate	0.0043	U	0.0050	0.0043	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
Methyl tert-butyl ether	0.00051	U	0.0010	0.00051	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
Methylcyclohexane	0.00050	U	0.0010	0.00050	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
Methylene Chloride	0.0011	U	0.0020	0.0011	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
m-Xylene & p-Xylene	0.00017	U	0.0010	0.00017	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
o-Xylene	0.00019	U	0.0010	0.00019	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
Styrene	0.00028	U	0.0010	0.00028	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
Tetrachloroethene	0.00031	U	0.0010	0.00031	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
Toluene	0.00023	U	0.0010	0.00023	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
trans-1,2-Dichloroethene	0.00025	U	0.0010	0.00025	mg/Kg		01/14/25 19:06	01/17/25 13:51	1

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QC Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

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

Lab Sample ID: LB3 460-1016506/1-A

Matrix: Solid

Analysis Batch: 1016958

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1016506

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
Trichloroethene	0.00032	U	0.0010	0.00032	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
Trichlorofluoromethane	0.00041	U	0.0010	0.00041	mg/Kg		01/14/25 19:06	01/17/25 13:51	1
Vinyl chloride	0.00055	U	0.0010	0.00055	mg/Kg		01/14/25 19:06	01/17/25 13:51	1

Tentatively Identified Compound	LB3 Est. Result	LB3 Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		mg/Kg			N/A	01/14/25 19:06	01/17/25 13:51	1

Surrogate	LB3 %Recovery	LB3 Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 130	01/14/25 19:06	01/17/25 13:51	1
4-Bromofluorobenzene	105		70 - 130	01/14/25 19:06	01/17/25 13:51	1
Dibromofluoromethane (Surr)	101		70 - 130	01/14/25 19:06	01/17/25 13:51	1
Toluene-d8 (Surr)	100		70 - 130	01/14/25 19:06	01/17/25 13:51	1

Lab Sample ID: MB 460-1016782/10

Matrix: Water

Analysis Batch: 1016782

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00024	U	0.0010	0.00024	mg/L			01/16/25 10:04	1
1,1,1,2-Tetrachloroethane	0.00037	U	0.0010	0.00037	mg/L			01/16/25 10:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00031	U	0.0010	0.00031	mg/L			01/16/25 10:04	1
1,1,2-Trichloroethane	0.00020	U	0.0010	0.00020	mg/L			01/16/25 10:04	1
1,1-Dichloroethane	0.00026	U	0.0010	0.00026	mg/L			01/16/25 10:04	1
1,1-Dichloroethene	0.00026	U	0.0010	0.00026	mg/L			01/16/25 10:04	1
1,2,3-Trichlorobenzene	0.00036	U	0.0010	0.00036	mg/L			01/16/25 10:04	1
1,2,4-Trichlorobenzene	0.00037	U	0.0010	0.00037	mg/L			01/16/25 10:04	1
1,2-Dibromo-3-Chloropropane	0.00038	U	0.0010	0.00038	mg/L			01/16/25 10:04	1
1,2-Dichlorobenzene	0.00021	U	0.0010	0.00021	mg/L			01/16/25 10:04	1
1,2-Dichloroethane	0.00043	U	0.0010	0.00043	mg/L			01/16/25 10:04	1
1,2-Dichloropropane	0.00035	U	0.0010	0.00035	mg/L			01/16/25 10:04	1
1,3-Dichlorobenzene	0.00034	U	0.0010	0.00034	mg/L			01/16/25 10:04	1
1,4-Dichlorobenzene	0.00033	U	0.0010	0.00033	mg/L			01/16/25 10:04	1
1,4-Dioxane	0.028	U	0.050	0.028	mg/L			01/16/25 10:04	1
2-Butanone (MEK)	0.0019	U	0.0050	0.0019	mg/L			01/16/25 10:04	1
2-Hexanone (MBK)	0.0011	U	0.0050	0.0011	mg/L			01/16/25 10:04	1
4-Methyl-2-pentanone (MIBK)	0.0013	U	0.0050	0.0013	mg/L			01/16/25 10:04	1
Acetone	0.0044	U	0.0050	0.0044	mg/L			01/16/25 10:04	1
Benzene	0.00020	U	0.0010	0.00020	mg/L			01/16/25 10:04	1
Bromoform	0.00054	U	0.0010	0.00054	mg/L			01/16/25 10:04	1
Bromomethane	0.00055	U	0.0010	0.00055	mg/L			01/16/25 10:04	1
Carbon disulfide	0.00082	U	0.0010	0.00082	mg/L			01/16/25 10:04	1
Carbon tetrachloride	0.00021	U	0.0010	0.00021	mg/L			01/16/25 10:04	1
Chlorobenzene	0.00038	U	0.0010	0.00038	mg/L			01/16/25 10:04	1
Chlorobromomethane	0.00041	U	0.0010	0.00041	mg/L			01/16/25 10:04	1
Chlorodibromomethane	0.00028	U	0.0010	0.00028	mg/L			01/16/25 10:04	1
Chloroethane	0.00032	U	0.0010	0.00032	mg/L			01/16/25 10:04	1
Chloroform	0.00033	U	0.0010	0.00033	mg/L			01/16/25 10:04	1

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QC Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

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

Lab Sample ID: MB 460-1016782/10

Matrix: Water

Analysis Batch: 1016782

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.00040	U	0.0010	0.00040	mg/L			01/16/25 10:04	1
cis-1,2-Dichloroethene	0.00022	U	0.0010	0.00022	mg/L			01/16/25 10:04	1
cis-1,3-Dichloropropene	0.00022	U	0.0010	0.00022	mg/L			01/16/25 10:04	1
Cyclohexane	0.00032	U	0.0010	0.00032	mg/L			01/16/25 10:04	1
Dichlorobromomethane	0.00034	U	0.0010	0.00034	mg/L			01/16/25 10:04	1
Dichlorodifluoromethane	0.00031	U	0.0010	0.00031	mg/L			01/16/25 10:04	1
Ethylbenzene	0.00030	U	0.0010	0.00030	mg/L			01/16/25 10:04	1
1,2-Dibromoethane	0.00050	U	0.0010	0.00050	mg/L			01/16/25 10:04	1
Isopropylbenzene	0.00034	U	0.0010	0.00034	mg/L			01/16/25 10:04	1
Methyl acetate	0.00079	U	0.0050	0.00079	mg/L			01/16/25 10:04	1
Methyl tert-butyl ether	0.00022	U	0.0010	0.00022	mg/L			01/16/25 10:04	1
Methylcyclohexane	0.00071	U	0.0010	0.00071	mg/L			01/16/25 10:04	1
Methylene Chloride	0.00032	U	0.0010	0.00032	mg/L			01/16/25 10:04	1
m-Xylene & p-Xylene	0.00030	U	0.0010	0.00030	mg/L			01/16/25 10:04	1
o-Xylene	0.00036	U	0.0010	0.00036	mg/L			01/16/25 10:04	1
Styrene	0.00042	U	0.0010	0.00042	mg/L			01/16/25 10:04	1
Tetrachloroethene	0.00025	U	0.0010	0.00025	mg/L			01/16/25 10:04	1
Toluene	0.00038	U	0.0010	0.00038	mg/L			01/16/25 10:04	1
trans-1,2-Dichloroethene	0.00024	U	0.0010	0.00024	mg/L			01/16/25 10:04	1
trans-1,3-Dichloropropene	0.00022	U	0.0010	0.00022	mg/L			01/16/25 10:04	1
Trichloroethene	0.00031	U	0.0010	0.00031	mg/L			01/16/25 10:04	1
Trichlorofluoromethane	0.00032	U	0.0010	0.00032	mg/L			01/16/25 10:04	1
Vinyl chloride	0.00017	U	0.0010	0.00017	mg/L			01/16/25 10:04	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		mg/L			N/A		01/16/25 10:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		70 - 128		01/16/25 10:04	1
4-Bromofluorobenzene	104		76 - 120		01/16/25 10:04	1
Dibromofluoromethane (Surr)	104		77 - 132		01/16/25 10:04	1
Toluene-d8 (Surr)	96		80 - 120		01/16/25 10:04	1

Lab Sample ID: LCS 460-1016782/6

Matrix: Water

Analysis Batch: 1016782

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0200	0.0201		mg/L		101	72 - 128
1,1,1,2,2-Tetrachloroethane	0.0200	0.0219		mg/L		110	63 - 139
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0190		mg/L		95	65 - 142
1,1,2-Trichloroethane	0.0200	0.0212		mg/L		106	74 - 125
1,1-Dichloroethane	0.0200	0.0181		mg/L		90	73 - 130
1,1-Dichloroethene	0.0200	0.0186		mg/L		93	68 - 133
1,2,3-Trichlorobenzene	0.0200	0.0237		mg/L		119	55 - 150
1,2,4-Trichlorobenzene	0.0200	0.0221		mg/L		110	67 - 132
1,2-Dibromo-3-Chloropropane	0.0200	0.0261		mg/L		130	58 - 132

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QC Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

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

Lab Sample ID: LCS 460-1016782/6

Matrix: Water

Analysis Batch: 1016782

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	0.0200	0.0232		mg/L		116	80 - 120
1,2-Dichloroethane	0.0200	0.0192		mg/L		96	66 - 129
1,2-Dichloropropane	0.0200	0.0184		mg/L		92	72 - 128
1,3-Dichlorobenzene	0.0200	0.0229		mg/L		114	80 - 120
1,4-Dichlorobenzene	0.0200	0.0219		mg/L		110	80 - 120
1,4-Dioxane	0.400	0.487		mg/L		122	42 - 150
2-Butanone (MEK)	0.100	0.148	*+	mg/L		148	65 - 142
2-Hexanone (MBK)	0.100	0.135	*+	mg/L		135	72 - 134
4-Methyl-2-pentanone (MIBK)	0.100	0.117		mg/L		117	77 - 130
Acetone	0.100	0.128		mg/L		128	60 - 133
Benzene	0.0200	0.0191		mg/L		96	71 - 126
Bromoform	0.0200	0.0267	*+	mg/L		134	58 - 128
Bromomethane	0.0200	0.0249		mg/L		124	33 - 150
Carbon disulfide	0.0200	0.0175		mg/L		88	35 - 150
Carbon tetrachloride	0.0200	0.0203		mg/L		101	65 - 131
Chlorobenzene	0.0200	0.0213		mg/L		107	80 - 120
Chlorobromomethane	0.0200	0.0245		mg/L		123	71 - 134
Chlorodibromomethane	0.0200	0.0240		mg/L		120	73 - 121
Chloroethane	0.0200	0.0186		mg/L		93	54 - 150
Chloroform	0.0200	0.0211		mg/L		106	78 - 125
Chloromethane	0.0200	0.0154		mg/L		77	43 - 149
cis-1,2-Dichloroethene	0.0200	0.0209		mg/L		105	78 - 121
cis-1,3-Dichloropropene	0.0200	0.0201		mg/L		100	74 - 125
Cyclohexane	0.0200	0.0148		mg/L		74	64 - 142
Dichlorobromomethane	0.0200	0.0215		mg/L		108	76 - 121
Dichlorodifluoromethane	0.0200	0.0181		mg/L		91	38 - 144
Ethylbenzene	0.0200	0.0206		mg/L		103	78 - 120
1,2-Dibromoethane	0.0200	0.0241		mg/L		120	79 - 126
Isopropylbenzene	0.0200	0.0208		mg/L		104	79 - 125
Methyl acetate	0.0400	0.0300		mg/L		75	50 - 147
Methyl tert-butyl ether	0.0200	0.0210		mg/L		105	72 - 131
Methylcyclohexane	0.0200	0.0187		mg/L		94	63 - 138
Methylene Chloride	0.0200	0.0205		mg/L		102	74 - 127
m-Xylene & p-Xylene	0.0200	0.0212		mg/L		106	78 - 120
o-Xylene	0.0200	0.0220		mg/L		110	78 - 120
Styrene	0.0200	0.0224		mg/L		112	82 - 127
Tetrachloroethene	0.0200	0.0211		mg/L		106	70 - 127
Toluene	0.0200	0.0196		mg/L		98	78 - 120
trans-1,2-Dichloroethene	0.0200	0.0206		mg/L		103	70 - 126
trans-1,3-Dichloropropene	0.0200	0.0205		mg/L		102	71 - 127
Trichloroethene	0.0200	0.0191		mg/L		96	73 - 121
Trichlorofluoromethane	0.0200	0.0209		mg/L		104	62 - 134
Vinyl chloride	0.0200	0.0172		mg/L		86	55 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		70 - 128
4-Bromofluorobenzene	104		76 - 120
Dibromofluoromethane (Surr)	102		77 - 132

Eurofins Edison

QC Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

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

Lab Sample ID: LCS 460-1016782/6

Matrix: Water

Analysis Batch: 1016782

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	96		80 - 120

Lab Sample ID: 460-318705-6 MS

Matrix: Water

Analysis Batch: 1016782

Client Sample ID: TW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.00024	U	0.200	0.209		mg/L		104	72 - 128
1,1,2,2-Tetrachloroethane	0.00037	U	0.200	0.215		mg/L		108	63 - 139
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00031	U	0.200	0.201		mg/L		101	65 - 142
1,1,2-Trichloroethane	0.00020	U	0.200	0.205		mg/L		102	74 - 125
1,1-Dichloroethane	0.00026	U	0.200	0.178		mg/L		89	73 - 130
1,1-Dichloroethene	0.00026	U	0.200	0.195		mg/L		97	68 - 133
1,2,3-Trichlorobenzene	0.00036	U	0.200	0.208		mg/L		104	55 - 150
1,2,4-Trichlorobenzene	0.00037	U	0.200	0.192		mg/L		96	67 - 132
1,2-Dibromo-3-Chloropropane	0.00038	U	0.200	0.250		mg/L		125	58 - 132
1,2-Dichlorobenzene	0.00021	U	0.200	0.219		mg/L		110	80 - 120
1,2-Dichloroethane	0.00043	U	0.200	0.191		mg/L		95	66 - 129
1,2-Dichloropropane	0.00035	U	0.200	0.178		mg/L		89	72 - 128
1,3-Dichlorobenzene	0.00034	U	0.200	0.216		mg/L		108	80 - 120
1,4-Dichlorobenzene	0.00033	U	0.200	0.202		mg/L		101	80 - 120
1,4-Dioxane	0.028	U	4.00	3.41		mg/L		85	42 - 150
2-Butanone (MEK)	0.0019	U *	1.00	1.41		mg/L		141	65 - 142
2-Hexanone (MBK)	0.0011	U *	1.00	1.22		mg/L		122	72 - 134
4-Methyl-2-pentanone (MIBK)	0.0013	U	1.00	1.16		mg/L		116	77 - 130
Acetone	0.0059		1.00	1.21		mg/L		121	60 - 133
Benzene	0.00020	U	0.200	0.189		mg/L		94	71 - 126
Bromoform	0.00054	U *	0.200	0.249		mg/L		124	58 - 128
Bromomethane	0.00055	U	0.200	0.198		mg/L		99	33 - 150
Carbon disulfide	0.00082	U	0.200	0.181		mg/L		91	35 - 150
Carbon tetrachloride	0.00021	U	0.200	0.214		mg/L		107	65 - 131
Chlorobenzene	0.00038	U	0.200	0.206		mg/L		103	80 - 120
Chlorobromomethane	0.00041	U	0.200	0.238		mg/L		119	71 - 134
Chlorodibromomethane	0.00028	U F1	0.200	0.238		mg/L		119	73 - 121
Chloroethane	0.00032	U	0.200	0.206		mg/L		103	54 - 150
Chloroform	0.00033	U	0.200	0.206		mg/L		103	78 - 125
Chloromethane	0.00040	U	0.200	0.155		mg/L		78	43 - 149
cis-1,2-Dichloroethene	0.00022	U	0.200	0.211		mg/L		105	78 - 121
cis-1,3-Dichloropropene	0.00022	U	0.200	0.189		mg/L		95	74 - 125
Cyclohexane	0.00032	U	0.200	0.151		mg/L		75	64 - 142
Dichlorobromomethane	0.00034	U	0.200	0.219		mg/L		109	76 - 121
Dichlorodifluoromethane	0.00031	U	0.200	0.184		mg/L		92	38 - 144
Ethylbenzene	0.00030	U	0.200	0.209		mg/L		105	78 - 120
1,2-Dibromoethane	0.00050	U	0.200	0.232		mg/L		116	79 - 126
Isopropylbenzene	0.00034	U	0.200	0.202		mg/L		101	79 - 125
Methyl acetate	0.00079	U	0.400	0.292		mg/L		73	50 - 147
Methyl tert-butyl ether	0.00022	U	0.200	0.212		mg/L		106	72 - 131
Methylcyclohexane	0.00071	U	0.200	0.175		mg/L		87	63 - 138

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QC Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

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

Lab Sample ID: 460-318705-6 MS

Matrix: Water

Analysis Batch: 1016782

Client Sample ID: TW-2

Prep Type: Total/NA

Analysis Data Report

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier			Limits	
Methylene Chloride	0.00032	U	0.200	0.205		mg/L		103	74 - 127
m-Xylene & p-Xylene	0.00030	U	0.200	0.207		mg/L		104	78 - 120
o-Xylene	0.00036	U	0.200	0.213		mg/L		106	78 - 120
Styrene	0.00042	U	0.200	0.219		mg/L		109	82 - 127
Tetrachloroethene	0.00025	U	0.200	0.198		mg/L		99	70 - 127
Toluene	0.00038	U	0.200	0.191		mg/L		96	78 - 120
trans-1,2-Dichloroethene	0.00024	U	0.200	0.213		mg/L		107	70 - 126
trans-1,3-Dichloropropene	0.00022	U	0.200	0.190		mg/L		95	71 - 127
Trichloroethene	0.00031	U	0.200	0.197		mg/L		98	73 - 121
Trichlorofluoromethane	0.00032	U	0.200	0.230		mg/L		115	62 - 134
Vinyl chloride	0.00017	U	0.200	0.176		mg/L		88	55 - 144

Lab Sample ID: 460-318705-6 MSD

Matrix: Water

Analysis Batch: 1016782

Client Sample ID: TW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.00024	U	0.200	0.209		mg/L		105	72 - 128	0	30
1,1,2,2-Tetrachloroethane	0.00037	U	0.200	0.207		mg/L		104	63 - 139	4	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00031	U	0.200	0.201		mg/L		100	65 - 142	0	30
1,1,2-Trichloroethane	0.00020	U	0.200	0.199		mg/L		99	74 - 125	3	30
1,1-Dichloroethane	0.00026	U	0.200	0.186		mg/L		93	73 - 130	4	30
1,1-Dichloroethene	0.00026	U	0.200	0.189		mg/L		95	68 - 133	3	30
1,2,3-Trichlorobenzene	0.00036	U	0.200	0.210		mg/L		105	55 - 150	1	30
1,2,4-Trichlorobenzene	0.00037	U	0.200	0.200		mg/L		100	67 - 132	4	30
1,2-Dibromo-3-Chloropropane	0.00038	U	0.200	0.247		mg/L		124	58 - 132	1	30
1,2-Dichlorobenzene	0.00021	U	0.200	0.214		mg/L		107	80 - 120	2	30
1,2-Dichloroethane	0.00043	U	0.200	0.190		mg/L		95	66 - 129	0	30
1,2-Dichloropropane	0.00035	U	0.200	0.182		mg/L		91	72 - 128	2	30
1,3-Dichlorobenzene	0.00034	U	0.200	0.215		mg/L		108	80 - 120	1	30
1,4-Dichlorobenzene	0.00033	U	0.200	0.213		mg/L		106	80 - 120	5	30
1,4-Dioxane	0.028	U	4.00	4.19		mg/L		105	42 - 150	21	30
2-Butanone (MEK)	0.0019	U *	1.00	1.42		mg/L		142	65 - 142	1	30
2-Hexanone (MBK)	0.0011	U *	1.00	1.30		mg/L		130	72 - 134	6	30
4-Methyl-2-pentanone (MIBK)	0.0013	U	1.00	1.13		mg/L		113	77 - 130	2	30
Acetone	0.0059		1.00	1.14		mg/L		114	60 - 133	6	30
Benzene	0.00020	U	0.200	0.189		mg/L		95	71 - 126	0	30
Bromoform	0.00054	U *	0.200	0.241		mg/L		121	58 - 128	3	30
Bromomethane	0.00055	U	0.200	0.215		mg/L		107	33 - 150	8	30
Carbon disulfide	0.00082	U	0.200	0.183		mg/L		91	35 - 150	1	30
Carbon tetrachloride	0.00021	U	0.200	0.200		mg/L		100	65 - 131	7	30
Chlorobenzene	0.00038	U	0.200	0.209		mg/L		105	80 - 120	2	30

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QC Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

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

Lab Sample ID: 460-318705-6 MSD

Matrix: Water

Analysis Batch: 1016782

Client Sample ID: TW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chlorobromomethane	0.00041	U	0.200	0.238		mg/L		119	71 - 134	0	30
Chlorodibromomethane	0.00028	U F1	0.200	0.243	F1	mg/L		122	73 - 121	2	30
Chloroethane	0.00032	U	0.200	0.200		mg/L		100	54 - 150	3	30
Chloroform	0.00033	U	0.200	0.207		mg/L		103	78 - 125	0	30
Chloromethane	0.00040	U	0.200	0.151		mg/L		75	43 - 149	3	30
cis-1,2-Dichloroethene	0.00022	U	0.200	0.212		mg/L		106	78 - 121	1	30
cis-1,3-Dichloropropene	0.00022	U	0.200	0.184		mg/L		92	74 - 125	3	30
Cyclohexane	0.00032	U	0.200	0.154		mg/L		77	64 - 142	2	30
Dichlorobromomethane	0.00034	U	0.200	0.213		mg/L		106	76 - 121	3	30
Dichlorodifluoromethane	0.00031	U	0.200	0.190		mg/L		95	38 - 144	3	30
Ethylbenzene	0.00030	U	0.200	0.210		mg/L		105	78 - 120	0	30
1,2-Dibromoethane	0.00050	U	0.200	0.227		mg/L		114	79 - 126	2	30
Isopropylbenzene	0.00034	U	0.200	0.207		mg/L		103	79 - 125	2	30
Methyl acetate	0.00079	U	0.400	0.299		mg/L		75	50 - 147	2	30
Methyl tert-butyl ether	0.00022	U	0.200	0.204		mg/L		102	72 - 131	4	30
Methylcyclohexane	0.00071	U	0.200	0.185		mg/L		93	63 - 138	6	30
Methylene Chloride	0.00032	U	0.200	0.201		mg/L		100	74 - 127	2	30
m-Xylene & p-Xylene	0.00030	U	0.200	0.199		mg/L		100	78 - 120	4	30
o-Xylene	0.00036	U	0.200	0.214		mg/L		107	78 - 120	1	30
Styrene	0.00042	U	0.200	0.222		mg/L		111	82 - 127	2	30
Tetrachloroethene	0.00025	U	0.200	0.201		mg/L		101	70 - 127	1	30
Toluene	0.00038	U	0.200	0.192		mg/L		96	78 - 120	0	30
trans-1,2-Dichloroethene	0.00024	U	0.200	0.207		mg/L		103	70 - 126	3	30
trans-1,3-Dichloropropene	0.00022	U	0.200	0.191		mg/L		96	71 - 127	1	30
Trichloroethene	0.00031	U	0.200	0.207		mg/L		104	73 - 121	5	30
Trichlorofluoromethane	0.00032	U	0.200	0.215		mg/L		107	62 - 134	7	30
Vinyl chloride	0.00017	U	0.200	0.178		mg/L		89	55 - 144	1	30

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
1,2-Dichloroethane-d4 (Surr)	92		70 - 128
4-Bromofluorobenzene	102		76 - 120
Dibromofluoromethane (Surr)	104		77 - 132
Toluene-d8 (Surr)	95		80 - 120

Lab Sample ID: MB 460-1016958/19

Matrix: Solid

Analysis Batch: 1016958

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00023	U	0.0010	0.00023	mg/Kg			01/17/25 13:26	1
1,1,2,2-Tetrachloroethane	0.00021	U	0.0010	0.00021	mg/Kg			01/17/25 13:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00030	U	0.0010	0.00030	mg/Kg			01/17/25 13:26	1
1,1,2-Trichloroethane	0.00018	U	0.0010	0.00018	mg/Kg			01/17/25 13:26	1
1,1-Dichloroethane	0.00021	U	0.0010	0.00021	mg/Kg			01/17/25 13:26	1
1,1-Dichloroethene	0.00023	U	0.0010	0.00023	mg/Kg			01/17/25 13:26	1
1,2,3-Trichlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg			01/17/25 13:26	1
1,2,4-Trichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg			01/17/25 13:26	1
1,2-Dibromo-3-Chloropropane	0.00046	U	0.0010	0.00046	mg/Kg			01/17/25 13:26	1

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QC Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

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

Lab Sample ID: MB 460-1016958/19

Matrix: Solid

Analysis Batch: 1016958

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg			01/17/25 13:26	1
1,2-Dichloroethane	0.00030	U	0.0010	0.00030	mg/Kg			01/17/25 13:26	1
1,2-Dichloropropane	0.00042	U	0.0010	0.00042	mg/Kg			01/17/25 13:26	1
1,3-Dichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg			01/17/25 13:26	1
1,4-Dichlorobenzene	0.00023	U	0.0010	0.00023	mg/Kg			01/17/25 13:26	1
1,4-Dioxane	0.0092	U	0.10	0.0092	mg/Kg			01/17/25 13:26	1
2-Butanone (MEK)	0.00037	U	0.0050	0.00037	mg/Kg			01/17/25 13:26	1
2-Hexanone (MBK)	0.0017	U	0.0050	0.0017	mg/Kg			01/17/25 13:26	1
4-Methyl-2-pentanone (MIBK)	0.0016	U	0.0050	0.0016	mg/Kg			01/17/25 13:26	1
Acetone	0.0057	U	0.0060	0.0057	mg/Kg			01/17/25 13:26	1
Benzene	0.00026	U	0.0010	0.00026	mg/Kg			01/17/25 13:26	1
Bromoform	0.00043	U	0.0010	0.00043	mg/Kg			01/17/25 13:26	1
Bromomethane	0.0010	U	0.0020	0.0010	mg/Kg			01/17/25 13:26	1
Carbon disulfide	0.00027	U	0.0010	0.00027	mg/Kg			01/17/25 13:26	1
Carbon tetrachloride	0.00039	U	0.0010	0.00039	mg/Kg			01/17/25 13:26	1
Chlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg			01/17/25 13:26	1
Chlorobromomethane	0.00028	U	0.0010	0.00028	mg/Kg			01/17/25 13:26	1
Chlorodibromomethane	0.00019	U	0.0010	0.00019	mg/Kg			01/17/25 13:26	1
Chloroethane	0.00052	U	0.0010	0.00052	mg/Kg			01/17/25 13:26	1
Chloroform	0.00097	U	0.0010	0.00097	mg/Kg			01/17/25 13:26	1
Chloromethane	0.00044	U	0.0010	0.00044	mg/Kg			01/17/25 13:26	1
cis-1,2-Dichloroethene	0.00036	U	0.0010	0.00036	mg/Kg			01/17/25 13:26	1
cis-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg			01/17/25 13:26	1
Cyclohexane	0.00022	U	0.0010	0.00022	mg/Kg			01/17/25 13:26	1
Dichlorobromomethane	0.00026	U	0.0010	0.00026	mg/Kg			01/17/25 13:26	1
Dichlorodifluoromethane	0.00034	U	0.0010	0.00034	mg/Kg			01/17/25 13:26	1
Ethylbenzene	0.00020	U	0.0010	0.00020	mg/Kg			01/17/25 13:26	1
1,2-Dibromoethane	0.00018	U	0.0010	0.00018	mg/Kg			01/17/25 13:26	1
Isopropylbenzene	0.00029	U	0.0010	0.00029	mg/Kg			01/17/25 13:26	1
Methyl acetate	0.0043	U	0.0050	0.0043	mg/Kg			01/17/25 13:26	1
Methyl tert-butyl ether	0.00051	U	0.0010	0.00051	mg/Kg			01/17/25 13:26	1
Methylcyclohexane	0.00050	U	0.0010	0.00050	mg/Kg			01/17/25 13:26	1
Methylene Chloride	0.0011	U	0.0020	0.0011	mg/Kg			01/17/25 13:26	1
m-Xylene & p-Xylene	0.00017	U	0.0010	0.00017	mg/Kg			01/17/25 13:26	1
o-Xylene	0.00019	U	0.0010	0.00019	mg/Kg			01/17/25 13:26	1
Styrene	0.00028	U	0.0010	0.00028	mg/Kg			01/17/25 13:26	1
Tetrachloroethene	0.00031	U	0.0010	0.00031	mg/Kg			01/17/25 13:26	1
Toluene	0.00023	U	0.0010	0.00023	mg/Kg			01/17/25 13:26	1
trans-1,2-Dichloroethene	0.00025	U	0.0010	0.00025	mg/Kg			01/17/25 13:26	1
trans-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg			01/17/25 13:26	1
Trichloroethene	0.00032	U	0.0010	0.00032	mg/Kg			01/17/25 13:26	1
Trichlorofluoromethane	0.00041	U	0.0010	0.00041	mg/Kg			01/17/25 13:26	1
Vinyl chloride	0.00055	U	0.0010	0.00055	mg/Kg			01/17/25 13:26	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		mg/Kg			N/A		01/17/25 13:26	1

Eurofins Edison

QC Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

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

Lab Sample ID: MB 460-1016958/19

Matrix: Solid

Analysis Batch: 1016958

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		01/17/25 13:26	1
4-Bromofluorobenzene	105		70 - 130		01/17/25 13:26	1
Dibromofluoromethane (Surr)	101		70 - 130		01/17/25 13:26	1
Toluene-d8 (Surr)	100		70 - 130		01/17/25 13:26	1

Lab Sample ID: LCS 460-1016958/16

Matrix: Solid

Analysis Batch: 1016958

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0200	0.0192		mg/Kg		96	70 - 130
1,1,1,2,2-Tetrachloroethane	0.0200	0.0192		mg/Kg		96	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0196		mg/Kg		98	70 - 130
1,1,2-Trichloroethane	0.0200	0.0184		mg/Kg		92	70 - 130
1,1-Dichloroethane	0.0200	0.0202		mg/Kg		101	70 - 130
1,1-Dichloroethene	0.0200	0.0190		mg/Kg		95	70 - 130
1,2,3-Trichlorobenzene	0.0200	0.0198		mg/Kg		99	70 - 130
1,2,4-Trichlorobenzene	0.0200	0.0195		mg/Kg		97	70 - 130
1,2-Dibromo-3-Chloropropane	0.0200	0.0165		mg/Kg		83	40 - 160
1,2-Dichlorobenzene	0.0200	0.0184		mg/Kg		92	70 - 130
1,2-Dichloroethane	0.0200	0.0187		mg/Kg		93	70 - 130
1,2-Dichloropropane	0.0200	0.0192		mg/Kg		96	70 - 130
1,3-Dichlorobenzene	0.0200	0.0189		mg/Kg		95	70 - 130
1,4-Dichlorobenzene	0.0200	0.0180		mg/Kg		90	70 - 130
1,4-Dioxane	0.400	0.406		mg/Kg		102	40 - 160
2-Butanone (MEK)	0.100	0.0888		mg/Kg		89	40 - 160
2-Hexanone (MBK)	0.100	0.0910		mg/Kg		91	40 - 160
4-Methyl-2-pentanone (MIBK)	0.100	0.0903		mg/Kg		90	40 - 160
Acetone	0.100	0.0825		mg/Kg		82	40 - 160
Benzene	0.0200	0.0186		mg/Kg		93	70 - 130
Bromoform	0.0200	0.0158		mg/Kg		79	70 - 130
Bromomethane	0.0200	0.0205		mg/Kg		102	40 - 160
Carbon disulfide	0.0200	0.0196		mg/Kg		98	40 - 160
Carbon tetrachloride	0.0200	0.0185		mg/Kg		92	70 - 130
Chlorobenzene	0.0200	0.0183		mg/Kg		92	70 - 130
Chlorobromomethane	0.0200	0.0180		mg/Kg		90	70 - 130
Chlorodibromomethane	0.0200	0.0169		mg/Kg		85	70 - 130
Chloroethane	0.0200	0.0190		mg/Kg		95	40 - 160
Chloroform	0.0200	0.0192		mg/Kg		96	70 - 130
Chloromethane	0.0200	0.0169		mg/Kg		84	40 - 160
cis-1,2-Dichloroethene	0.0200	0.0194		mg/Kg		97	70 - 130
cis-1,3-Dichloropropene	0.0200	0.0169		mg/Kg		85	70 - 130
Cyclohexane	0.0200	0.0198		mg/Kg		99	70 - 130
Dichlorobromomethane	0.0200	0.0185		mg/Kg		93	70 - 130
Dichlorodifluoromethane	0.0200	0.0141		mg/Kg		70	40 - 160
Ethylbenzene	0.0200	0.0180		mg/Kg		90	70 - 130
1,2-Dibromoethane	0.0200	0.0183		mg/Kg		91	70 - 130
Isopropylbenzene	0.0200	0.0199		mg/Kg		100	70 - 130

Eurofins Edison

QC Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

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

Lab Sample ID: LCS 460-1016958/16

Matrix: Solid

Analysis Batch: 1016958

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl acetate	0.0400	0.0381		mg/Kg		95	70 - 130
Methyl tert-butyl ether	0.0200	0.0194		mg/Kg		97	70 - 130
Methylcyclohexane	0.0200	0.0194		mg/Kg		97	70 - 130
Methylene Chloride	0.0200	0.0197		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	0.0200	0.0180		mg/Kg		90	70 - 130
o-Xylene	0.0200	0.0181		mg/Kg		90	70 - 130
Styrene	0.0200	0.0175		mg/Kg		88	70 - 130
Tetrachloroethene	0.0200	0.0175		mg/Kg		88	70 - 130
Toluene	0.0200	0.0176		mg/Kg		88	70 - 130
trans-1,2-Dichloroethene	0.0200	0.0189		mg/Kg		94	70 - 130
trans-1,3-Dichloropropene	0.0200	0.0184		mg/Kg		92	70 - 130
Trichloroethene	0.0200	0.0188		mg/Kg		94	70 - 130
Trichlorofluoromethane	0.0200	0.0187		mg/Kg		93	40 - 160
Vinyl chloride	0.0200	0.0193		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
4-Bromofluorobenzene	105		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Lab Sample ID: LCSD 460-1016958/17

Matrix: Solid

Analysis Batch: 1016958

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
1,1,1-Trichloroethane	0.0200	0.0193		mg/Kg		96	70 - 130	0	30
1,1,2,2-Tetrachloroethane	0.0200	0.0196		mg/Kg		98	70 - 130	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0201		mg/Kg		101	70 - 130	3	30
1,1,2-Trichloroethane	0.0200	0.0186		mg/Kg		93	70 - 130	1	30
1,1-Dichloroethane	0.0200	0.0208		mg/Kg		104	70 - 130	3	30
1,1-Dichloroethene	0.0200	0.0196		mg/Kg		98	70 - 130	3	30
1,2,3-Trichlorobenzene	0.0200	0.0196		mg/Kg		98	70 - 130	1	30
1,2,4-Trichlorobenzene	0.0200	0.0194		mg/Kg		97	70 - 130	0	30
1,2-Dibromo-3-Chloropropane	0.0200	0.0162		mg/Kg		81	40 - 160	2	30
1,2-Dichlorobenzene	0.0200	0.0185		mg/Kg		92	70 - 130	1	30
1,2-Dichloroethane	0.0200	0.0189		mg/Kg		95	70 - 130	1	30
1,2-Dichloropropane	0.0200	0.0205		mg/Kg		102	70 - 130	6	30
1,3-Dichlorobenzene	0.0200	0.0196		mg/Kg		98	70 - 130	3	30
1,4-Dichlorobenzene	0.0200	0.0188		mg/Kg		94	70 - 130	5	30
1,4-Dioxane	0.400	0.443		mg/Kg		111	40 - 160	9	30
2-Butanone (MEK)	0.100	0.0903		mg/Kg		90	40 - 160	2	30
2-Hexanone (MBK)	0.100	0.0946		mg/Kg		95	40 - 160	4	30
4-Methyl-2-pentanone (MIBK)	0.100	0.0948		mg/Kg		95	40 - 160	5	30
Acetone	0.100	0.0924		mg/Kg		92	40 - 160	11	30
Benzene	0.0200	0.0193		mg/Kg		97	70 - 130	4	30
Bromoform	0.0200	0.0166		mg/Kg		83	70 - 130	5	30
Bromomethane	0.0200	0.0190		mg/Kg		95	40 - 160	7	30

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QC Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

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

Lab Sample ID: LCSD 460-1016958/17

Matrix: Solid

Analysis Batch: 1016958

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
Carbon disulfide	0.0200	0.0196		mg/Kg		98	40 - 160	0	30
Carbon tetrachloride	0.0200	0.0189		mg/Kg		94	70 - 130	2	30
Chlorobenzene	0.0200	0.0190		mg/Kg		95	70 - 130	4	30
Chlorobromomethane	0.0200	0.0179		mg/Kg		89	70 - 130	1	30
Chlorodibromomethane	0.0200	0.0174		mg/Kg		87	70 - 130	3	30
Chloroethane	0.0200	0.0180		mg/Kg		90	40 - 160	5	30
Chloroform	0.0200	0.0197		mg/Kg		99	70 - 130	2	30
Chloromethane	0.0200	0.0162		mg/Kg		81	40 - 160	4	30
cis-1,2-Dichloroethene	0.0200	0.0195		mg/Kg		98	70 - 130	1	30
cis-1,3-Dichloropropene	0.0200	0.0177		mg/Kg		88	70 - 130	4	30
Cyclohexane	0.0200	0.0199		mg/Kg		100	70 - 130	0	30
Dichlorobromomethane	0.0200	0.0189		mg/Kg		95	70 - 130	2	30
Dichlorodifluoromethane	0.0200	0.0136		mg/Kg		68	40 - 160	3	30
Ethylbenzene	0.0200	0.0189		mg/Kg		95	70 - 130	5	30
1,2-Dibromoethane	0.0200	0.0192		mg/Kg		96	70 - 130	5	30
Isopropylbenzene	0.0200	0.0203		mg/Kg		102	70 - 130	2	30
Methyl acetate	0.0400	0.0402		mg/Kg		101	70 - 130	5	30
Methyl tert-butyl ether	0.0200	0.0196		mg/Kg		98	70 - 130	1	30
Methylcyclohexane	0.0200	0.0198		mg/Kg		99	70 - 130	2	30
Methylene Chloride	0.0200	0.0198		mg/Kg		99	70 - 130	1	30
m-Xylene & p-Xylene	0.0200	0.0185		mg/Kg		92	70 - 130	3	30
o-Xylene	0.0200	0.0184		mg/Kg		92	70 - 130	2	30
Styrene	0.0200	0.0186		mg/Kg		93	70 - 130	6	30
Tetrachloroethene	0.0200	0.0192		mg/Kg		96	70 - 130	9	30
Toluene	0.0200	0.0183		mg/Kg		91	70 - 130	4	30
trans-1,2-Dichloroethene	0.0200	0.0191		mg/Kg		95	70 - 130	1	30
trans-1,3-Dichloropropene	0.0200	0.0189		mg/Kg		95	70 - 130	3	30
Trichloroethene	0.0200	0.0195		mg/Kg		97	70 - 130	3	30
Trichlorofluoromethane	0.0200	0.0185		mg/Kg		93	40 - 160	1	30
Vinyl chloride	0.0200	0.0184		mg/Kg		92	70 - 130	5	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
4-Bromofluorobenzene	106		70 - 130
Dibromofluoromethane (Surr)	103		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Lab Sample ID: MB 460-1017079/7

Matrix: Solid

Analysis Batch: 1017079

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00023	U	0.0010	0.00023	mg/Kg			01/17/25 22:07	1
1,1,1,2,2-Tetrachloroethane	0.00021	U	0.0010	0.00021	mg/Kg			01/17/25 22:07	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	0.00030	U	0.0010	0.00030	mg/Kg			01/17/25 22:07	1
1,1,2-Trichloroethane	0.00018	U	0.0010	0.00018	mg/Kg			01/17/25 22:07	1
1,1-Dichloroethane	0.00021	U	0.0010	0.00021	mg/Kg			01/17/25 22:07	1
1,1-Dichloroethene	0.00023	U	0.0010	0.00023	mg/Kg			01/17/25 22:07	1

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QC Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

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

Lab Sample ID: MB 460-1017079/7

Matrix: Solid

Analysis Batch: 1017079

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg			01/17/25 22:07	1
1,2,4-Trichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg			01/17/25 22:07	1
1,2-Dibromo-3-Chloropropane	0.00046	U	0.0010	0.00046	mg/Kg			01/17/25 22:07	1
1,2-Dichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg			01/17/25 22:07	1
1,2-Dichloroethane	0.00030	U	0.0010	0.00030	mg/Kg			01/17/25 22:07	1
1,2-Dichloropropane	0.00042	U	0.0010	0.00042	mg/Kg			01/17/25 22:07	1
1,3-Dichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg			01/17/25 22:07	1
1,4-Dichlorobenzene	0.00023	U	0.0010	0.00023	mg/Kg			01/17/25 22:07	1
1,4-Dioxane	0.0092	U	0.10	0.0092	mg/Kg			01/17/25 22:07	1
2-Butanone (MEK)	0.00037	U	0.0050	0.00037	mg/Kg			01/17/25 22:07	1
2-Hexanone (MBK)	0.0017	U	0.0050	0.0017	mg/Kg			01/17/25 22:07	1
4-Methyl-2-pentanone (MIBK)	0.0016	U	0.0050	0.0016	mg/Kg			01/17/25 22:07	1
Acetone	0.0057	U	0.0060	0.0057	mg/Kg			01/17/25 22:07	1
Benzene	0.00026	U	0.0010	0.00026	mg/Kg			01/17/25 22:07	1
Bromoform	0.00043	U	0.0010	0.00043	mg/Kg			01/17/25 22:07	1
Bromomethane	0.0010	U	0.0020	0.0010	mg/Kg			01/17/25 22:07	1
Carbon disulfide	0.00027	U	0.0010	0.00027	mg/Kg			01/17/25 22:07	1
Carbon tetrachloride	0.00039	U	0.0010	0.00039	mg/Kg			01/17/25 22:07	1
Chlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg			01/17/25 22:07	1
Chlorobromomethane	0.00028	U	0.0010	0.00028	mg/Kg			01/17/25 22:07	1
Chlorodibromomethane	0.00019	U	0.0010	0.00019	mg/Kg			01/17/25 22:07	1
Chloroethane	0.00052	U	0.0010	0.00052	mg/Kg			01/17/25 22:07	1
Chloroform	0.00097	U	0.0010	0.00097	mg/Kg			01/17/25 22:07	1
Chloromethane	0.00044	U	0.0010	0.00044	mg/Kg			01/17/25 22:07	1
cis-1,2-Dichloroethene	0.00036	U	0.0010	0.00036	mg/Kg			01/17/25 22:07	1
cis-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg			01/17/25 22:07	1
Cyclohexane	0.00022	U	0.0010	0.00022	mg/Kg			01/17/25 22:07	1
Dichlorobromomethane	0.00026	U	0.0010	0.00026	mg/Kg			01/17/25 22:07	1
Dichlorodifluoromethane	0.00034	U	0.0010	0.00034	mg/Kg			01/17/25 22:07	1
Ethylbenzene	0.00020	U	0.0010	0.00020	mg/Kg			01/17/25 22:07	1
1,2-Dibromoethane	0.00018	U	0.0010	0.00018	mg/Kg			01/17/25 22:07	1
Isopropylbenzene	0.00029	U	0.0010	0.00029	mg/Kg			01/17/25 22:07	1
Methyl acetate	0.0043	U	0.0050	0.0043	mg/Kg			01/17/25 22:07	1
Methyl tert-butyl ether	0.00051	U	0.0010	0.00051	mg/Kg			01/17/25 22:07	1
Methylcyclohexane	0.00050	U	0.0010	0.00050	mg/Kg			01/17/25 22:07	1
Methylene Chloride	0.0011	U	0.0020	0.0011	mg/Kg			01/17/25 22:07	1
m-Xylene & p-Xylene	0.00017	U	0.0010	0.00017	mg/Kg			01/17/25 22:07	1
o-Xylene	0.00019	U	0.0010	0.00019	mg/Kg			01/17/25 22:07	1
Styrene	0.00028	U	0.0010	0.00028	mg/Kg			01/17/25 22:07	1
Tetrachloroethene	0.00031	U	0.0010	0.00031	mg/Kg			01/17/25 22:07	1
Toluene	0.00023	U	0.0010	0.00023	mg/Kg			01/17/25 22:07	1
trans-1,2-Dichloroethene	0.00025	U	0.0010	0.00025	mg/Kg			01/17/25 22:07	1
trans-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg			01/17/25 22:07	1
Trichloroethene	0.00032	U	0.0010	0.00032	mg/Kg			01/17/25 22:07	1
Trichlorofluoromethane	0.00041	U	0.0010	0.00041	mg/Kg			01/17/25 22:07	1
Vinyl chloride	0.00055	U	0.0010	0.00055	mg/Kg			01/17/25 22:07	1

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QC Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

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

Lab Sample ID: MB 460-1017079/7

Matrix: Solid

Analysis Batch: 1017079

Client Sample ID: Method Blank

Prep Type: Total/NA

<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>mg/Kg</i>			<i>N/A</i>		<i>01/17/25 22:07</i>	<i>1</i>
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	114		70 - 130					01/17/25 22:07	1
4-Bromofluorobenzene	106		70 - 130					01/17/25 22:07	1
Dibromofluoromethane (Surr)	105		70 - 130					01/17/25 22:07	1
Toluene-d8 (Surr)	101		70 - 130					01/17/25 22:07	1

Lab Sample ID: LCS 460-1017079/2

Matrix: Solid

Analysis Batch: 1017079

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

<i>Analyte</i>	<i>Spike Added</i>	<i>LCS Result</i>	<i>LCS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>
1,1,1-Trichloroethane	0.0200	0.0190		mg/Kg		95	70 - 130
1,1,1,2-Tetrachloroethane	0.0200	0.0190		mg/Kg		95	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0201		mg/Kg		101	70 - 130
1,1,2-Trichloroethane	0.0200	0.0183		mg/Kg		91	70 - 130
1,1-Dichloroethane	0.0200	0.0207		mg/Kg		103	70 - 130
1,1-Dichloroethene	0.0200	0.0187		mg/Kg		94	70 - 130
1,2,3-Trichlorobenzene	0.0200	0.0189		mg/Kg		94	70 - 130
1,2,4-Trichlorobenzene	0.0200	0.0185		mg/Kg		92	70 - 130
1,2-Dibromo-3-Chloropropane	0.0200	0.0150		mg/Kg		75	40 - 160
1,2-Dichlorobenzene	0.0200	0.0180		mg/Kg		90	70 - 130
1,2-Dichloroethane	0.0200	0.0195		mg/Kg		97	70 - 130
1,2-Dichloropropane	0.0200	0.0200		mg/Kg		100	70 - 130
1,3-Dichlorobenzene	0.0200	0.0186		mg/Kg		93	70 - 130
1,4-Dichlorobenzene	0.0200	0.0180		mg/Kg		90	70 - 130
1,4-Dioxane	0.400	0.399		mg/Kg		100	40 - 160
2-Butanone (MEK)	0.100	0.0912		mg/Kg		91	40 - 160
2-Hexanone (MBK)	0.100	0.0928		mg/Kg		93	40 - 160
4-Methyl-2-pentanone (MIBK)	0.100	0.0935		mg/Kg		93	40 - 160
Acetone	0.100	0.0932		mg/Kg		93	40 - 160
Benzene	0.0200	0.0188		mg/Kg		94	70 - 130
Bromoform	0.0200	0.0140		mg/Kg		70	70 - 130
Bromomethane	0.0200	0.0233		mg/Kg		116	40 - 160
Carbon disulfide	0.0200	0.0176		mg/Kg		88	40 - 160
Carbon tetrachloride	0.0200	0.0180		mg/Kg		90	70 - 130
Chlorobenzene	0.0200	0.0183		mg/Kg		91	70 - 130
Chlorobromomethane	0.0200	0.0184		mg/Kg		92	70 - 130
Chlorodibromomethane	0.0200	0.0156		mg/Kg		78	70 - 130
Chloroethane	0.0200	0.0226		mg/Kg		113	40 - 160
Chloroform	0.0200	0.0194		mg/Kg		97	70 - 130
Chloromethane	0.0200	0.0211		mg/Kg		105	40 - 160
cis-1,2-Dichloroethene	0.0200	0.0195		mg/Kg		98	70 - 130
cis-1,3-Dichloropropene	0.0200	0.0181		mg/Kg		91	70 - 130
Cyclohexane	0.0200	0.0198		mg/Kg		99	70 - 130
Dichlorobromomethane	0.0200	0.0176		mg/Kg		88	70 - 130

Eurofins Edison

QC Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

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

Lab Sample ID: LCS 460-1017079/2

Matrix: Solid

Analysis Batch: 1017079

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	0.0200	0.0206		mg/Kg		103	40 - 160
Ethylbenzene	0.0200	0.0182		mg/Kg		91	70 - 130
1,2-Dibromoethane	0.0200	0.0180		mg/Kg		90	70 - 130
Isopropylbenzene	0.0200	0.0177		mg/Kg		88	70 - 130
Methyl acetate	0.0400	0.0396		mg/Kg		99	70 - 130
Methyl tert-butyl ether	0.0200	0.0197		mg/Kg		98	70 - 130
Methylcyclohexane	0.0200	0.0195		mg/Kg		98	70 - 130
Methylene Chloride	0.0200	0.0198		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	0.0200	0.0178		mg/Kg		89	70 - 130
o-Xylene	0.0200	0.0179		mg/Kg		89	70 - 130
Styrene	0.0200	0.0173		mg/Kg		87	70 - 130
Tetrachloroethene	0.0200	0.0178		mg/Kg		89	70 - 130
Toluene	0.0200	0.0180		mg/Kg		90	70 - 130
trans-1,2-Dichloroethene	0.0200	0.0193		mg/Kg		97	70 - 130
trans-1,3-Dichloropropene	0.0200	0.0175		mg/Kg		87	70 - 130
Trichloroethene	0.0200	0.0194		mg/Kg		97	70 - 130
Trichlorofluoromethane	0.0200	0.0210		mg/Kg		105	40 - 160
Vinyl chloride	0.0200	0.0213		mg/Kg		107	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		70 - 130
4-Bromofluorobenzene	104		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: LCSD 460-1017079/3

Matrix: Solid

Analysis Batch: 1017079

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
1,1,1-Trichloroethane	0.0200	0.0187		mg/Kg		94	70 - 130	2	30
1,1,2,2-Tetrachloroethane	0.0200	0.0193		mg/Kg		96	70 - 130	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0194		mg/Kg		97	70 - 130	3	30
1,1,2-Trichloroethane	0.0200	0.0181		mg/Kg		90	70 - 130	1	30
1,1-Dichloroethane	0.0200	0.0207		mg/Kg		104	70 - 130	0	30
1,1-Dichloroethene	0.0200	0.0190		mg/Kg		95	70 - 130	2	30
1,2,3-Trichlorobenzene	0.0200	0.0187		mg/Kg		94	70 - 130	1	30
1,2,4-Trichlorobenzene	0.0200	0.0176		mg/Kg		88	70 - 130	5	30
1,2-Dibromo-3-Chloropropane	0.0200	0.0161		mg/Kg		80	40 - 160	7	30
1,2-Dichlorobenzene	0.0200	0.0182		mg/Kg		91	70 - 130	1	30
1,2-Dichloroethane	0.0200	0.0193		mg/Kg		97	70 - 130	1	30
1,2-Dichloropropane	0.0200	0.0195		mg/Kg		97	70 - 130	3	30
1,3-Dichlorobenzene	0.0200	0.0183		mg/Kg		91	70 - 130	1	30
1,4-Dichlorobenzene	0.0200	0.0175		mg/Kg		87	70 - 130	3	30
1,4-Dioxane	0.400	0.397		mg/Kg		99	40 - 160	0	30
2-Butanone (MEK)	0.100	0.0927		mg/Kg		93	40 - 160	2	30
2-Hexanone (MBK)	0.100	0.0938		mg/Kg		94	40 - 160	1	30
4-Methyl-2-pentanone (MIBK)	0.100	0.0934		mg/Kg		93	40 - 160	0	30

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QC Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

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

Lab Sample ID: LCSD 460-1017079/3

Matrix: Solid

Analysis Batch: 1017079

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
Acetone	0.100	0.0845		mg/Kg		85	40 - 160	10	30
Benzene	0.0200	0.0187		mg/Kg		93	70 - 130	1	30
Bromoform	0.0200	0.0143		mg/Kg		72	70 - 130	2	30
Bromomethane	0.0200	0.0228		mg/Kg		114	40 - 160	2	30
Carbon disulfide	0.0200	0.0173		mg/Kg		87	40 - 160	1	30
Carbon tetrachloride	0.0200	0.0178		mg/Kg		89	70 - 130	1	30
Chlorobenzene	0.0200	0.0183		mg/Kg		92	70 - 130	0	30
Chlorobromomethane	0.0200	0.0185		mg/Kg		93	70 - 130	1	30
Chlorodibromomethane	0.0200	0.0156		mg/Kg		78	70 - 130	0	30
Chloroethane	0.0200	0.0210		mg/Kg		105	40 - 160	7	30
Chloroform	0.0200	0.0194		mg/Kg		97	70 - 130	0	30
Chloromethane	0.0200	0.0219		mg/Kg		109	40 - 160	4	30
cis-1,2-Dichloroethene	0.0200	0.0193		mg/Kg		97	70 - 130	1	30
cis-1,3-Dichloropropene	0.0200	0.0183		mg/Kg		92	70 - 130	1	30
Cyclohexane	0.0200	0.0201		mg/Kg		100	70 - 130	1	30
Dichlorobromomethane	0.0200	0.0177		mg/Kg		89	70 - 130	1	30
Dichlorodifluoromethane	0.0200	0.0197		mg/Kg		98	40 - 160	5	30
Ethylbenzene	0.0200	0.0178		mg/Kg		89	70 - 130	2	30
1,2-Dibromoethane	0.0200	0.0188		mg/Kg		94	70 - 130	4	30
Isopropylbenzene	0.0200	0.0178		mg/Kg		89	70 - 130	1	30
Methyl acetate	0.0400	0.0418		mg/Kg		105	70 - 130	5	30
Methyl tert-butyl ether	0.0200	0.0200		mg/Kg		100	70 - 130	2	30
Methylcyclohexane	0.0200	0.0194		mg/Kg		97	70 - 130	0	30
Methylene Chloride	0.0200	0.0193		mg/Kg		96	70 - 130	2	30
m-Xylene & p-Xylene	0.0200	0.0179		mg/Kg		89	70 - 130	0	30
o-Xylene	0.0200	0.0181		mg/Kg		91	70 - 130	1	30
Styrene	0.0200	0.0176		mg/Kg		88	70 - 130	1	30
Tetrachloroethene	0.0200	0.0181		mg/Kg		90	70 - 130	2	30
Toluene	0.0200	0.0180		mg/Kg		90	70 - 130	0	30
trans-1,2-Dichloroethene	0.0200	0.0189		mg/Kg		95	70 - 130	2	30
trans-1,3-Dichloropropene	0.0200	0.0178		mg/Kg		89	70 - 130	2	30
Trichloroethene	0.0200	0.0196		mg/Kg		98	70 - 130	1	30
Trichlorofluoromethane	0.0200	0.0210		mg/Kg		105	40 - 160	0	30
Vinyl chloride	0.0200	0.0213		mg/Kg		106	70 - 130	0	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	107		70 - 130
4-Bromofluorobenzene	101		70 - 130
Dibromofluoromethane (Surr)	103		70 - 130
Toluene-d8 (Surr)	101		70 - 130

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

Lab Sample ID: MB 460-1016420/1-A

Matrix: Water

Analysis Batch: 1016492

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1016420

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	0.00029	U	0.010	0.00029	mg/L		01/14/25 09:47	01/14/25 23:23	1

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QC Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

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

Lab Sample ID: MB 460-1016420/1-A

Matrix: Water

Analysis Batch: 1016492

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1016420

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	0.00095	U	0.010	0.00095	mg/L		01/14/25 09:47	01/14/25 23:23	1
2-Methylphenol	0.00067	U	0.010	0.00067	mg/L		01/14/25 09:47	01/14/25 23:23	1
4-Methylphenol	0.00065	U	0.010	0.00065	mg/L		01/14/25 09:47	01/14/25 23:23	1
2-Nitrophenol	0.00075	U	0.010	0.00075	mg/L		01/14/25 09:47	01/14/25 23:23	1
2,4-Dimethylphenol	0.00062	U	0.010	0.00062	mg/L		01/14/25 09:47	01/14/25 23:23	1
2,4-Dichlorophenol	0.0011	U	0.010	0.0011	mg/L		01/14/25 09:47	01/14/25 23:23	1
4-Chloro-3-methylphenol	0.0013	U	0.010	0.0013	mg/L		01/14/25 09:47	01/14/25 23:23	1
2,4,6-Trichlorophenol	0.00086	U	0.010	0.00086	mg/L		01/14/25 09:47	01/14/25 23:23	1
2,4,5-Trichlorophenol	0.00088	U	0.010	0.00088	mg/L		01/14/25 09:47	01/14/25 23:23	1
2,4-Dinitrotoluene	0.0010	U	0.010	0.0010	mg/L		01/14/25 09:47	01/14/25 23:23	1
4-Nitrophenol	0.0040	U	0.020	0.0040	mg/L		01/14/25 09:47	01/14/25 23:23	1
4,6-Dinitro-2-methylphenol	0.0086	U	0.020	0.0086	mg/L		01/14/25 09:47	01/14/25 23:23	1
Pentachlorophenol	0.0066	U	0.020	0.0066	mg/L		01/14/25 09:47	01/14/25 23:23	1
Bis(2-chloroethyl)ether	0.00063	U	0.0010	0.00063	mg/L		01/14/25 09:47	01/14/25 23:23	1
N-Nitrosodi-n-propylamine	0.00043	U	0.0010	0.00043	mg/L		01/14/25 09:47	01/14/25 23:23	1
Hexachloroethane	0.00080	U	0.0020	0.00080	mg/L		01/14/25 09:47	01/14/25 23:23	1
Nitrobenzene	0.00057	U	0.0010	0.00057	mg/L		01/14/25 09:47	01/14/25 23:23	1
Isophorone	0.00080	U	0.010	0.00080	mg/L		01/14/25 09:47	01/14/25 23:23	1
Naphthalene	0.00054	U	0.0020	0.00054	mg/L		01/14/25 09:47	01/14/25 23:23	1
4-Chloroaniline	0.0019	U	0.010	0.0019	mg/L		01/14/25 09:47	01/14/25 23:23	1
Hexachlorobutadiene	0.00078	U	0.0010	0.00078	mg/L		01/14/25 09:47	01/14/25 23:23	1
2-Methylnaphthalene	0.00053	U	0.010	0.00053	mg/L		01/14/25 09:47	01/14/25 23:23	1
Hexachlorocyclopentadiene	0.0036	U	0.010	0.0036	mg/L		01/14/25 09:47	01/14/25 23:23	1
2-Chloronaphthalene	0.0012	U	0.010	0.0012	mg/L		01/14/25 09:47	01/14/25 23:23	1
2-Nitroaniline	0.0012	U	0.010	0.0012	mg/L		01/14/25 09:47	01/14/25 23:23	1
Dimethyl phthalate	0.00077	U	0.010	0.00077	mg/L		01/14/25 09:47	01/14/25 23:23	1
Acenaphthylene	0.00082	U	0.010	0.00082	mg/L		01/14/25 09:47	01/14/25 23:23	1
2,6-Dinitrotoluene	0.00083	U	0.0020	0.00083	mg/L		01/14/25 09:47	01/14/25 23:23	1
3-Nitroaniline	0.0019	U	0.010	0.0019	mg/L		01/14/25 09:47	01/14/25 23:23	1
Acenaphthene	0.0011	U	0.010	0.0011	mg/L		01/14/25 09:47	01/14/25 23:23	1
Dibenzofuran	0.0011	U	0.010	0.0011	mg/L		01/14/25 09:47	01/14/25 23:23	1
2,4-Dinitrophenol	0.011	U	0.040	0.011	mg/L		01/14/25 09:47	01/14/25 23:23	1
Diethyl phthalate	0.00098	U	0.010	0.00098	mg/L		01/14/25 09:47	01/14/25 23:23	1
4-Chlorophenyl phenyl ether	0.0013	U	0.010	0.0013	mg/L		01/14/25 09:47	01/14/25 23:23	1
Fluorene	0.00091	U	0.010	0.00091	mg/L		01/14/25 09:47	01/14/25 23:23	1
4-Nitroaniline	0.0012	U	0.010	0.0012	mg/L		01/14/25 09:47	01/14/25 23:23	1
N-Nitrosodiphenylamine	0.00089	U	0.010	0.00089	mg/L		01/14/25 09:47	01/14/25 23:23	1
4-Bromophenyl phenyl ether	0.00075	U	0.010	0.00075	mg/L		01/14/25 09:47	01/14/25 23:23	1
Hexachlorobenzene	0.00040	U	0.0010	0.00040	mg/L		01/14/25 09:47	01/14/25 23:23	1
Phenanthrene	0.0013	U	0.010	0.0013	mg/L		01/14/25 09:47	01/14/25 23:23	1
Anthracene	0.0013	U	0.010	0.0013	mg/L		01/14/25 09:47	01/14/25 23:23	1
Carbazole	0.00068	U	0.010	0.00068	mg/L		01/14/25 09:47	01/14/25 23:23	1
Di-n-butyl phthalate	0.00084	U	0.010	0.00084	mg/L		01/14/25 09:47	01/14/25 23:23	1
Fluoranthene	0.00084	U	0.010	0.00084	mg/L		01/14/25 09:47	01/14/25 23:23	1
Pyrene	0.0016	U	0.010	0.0016	mg/L		01/14/25 09:47	01/14/25 23:23	1
Butyl benzyl phthalate	0.00085	U	0.010	0.00085	mg/L		01/14/25 09:47	01/14/25 23:23	1
Benzo[a]anthracene	0.00059	U	0.0010	0.00059	mg/L		01/14/25 09:47	01/14/25 23:23	1
Chrysene	0.00091	U	0.0020	0.00091	mg/L		01/14/25 09:47	01/14/25 23:23	1
Bis(2-ethylhexyl) phthalate	0.00080	U	0.0020	0.00080	mg/L		01/14/25 09:47	01/14/25 23:23	1

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QC Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

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

Lab Sample ID: MB 460-1016420/1-A

Matrix: Water

Analysis Batch: 1016492

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1016420

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	0.0040	U	0.010	0.0040	mg/L		01/14/25 09:47	01/14/25 23:23	1
Benzo[b]fluoranthene	0.00068	U	0.0020	0.00068	mg/L		01/14/25 09:47	01/14/25 23:23	1
Benzo[k]fluoranthene	0.00067	U	0.0010	0.00067	mg/L		01/14/25 09:47	01/14/25 23:23	1
Benzo[a]pyrene	0.00041	U	0.0010	0.00041	mg/L		01/14/25 09:47	01/14/25 23:23	1
Indeno[1,2,3-cd]pyrene	0.00094	U	0.0020	0.00094	mg/L		01/14/25 09:47	01/14/25 23:23	1
Dibenz(a,h)anthracene	0.00072	U	0.0010	0.00072	mg/L		01/14/25 09:47	01/14/25 23:23	1
Benzo[g,h,i]perylene	0.00070	U	0.010	0.00070	mg/L		01/14/25 09:47	01/14/25 23:23	1
1,1'-Biphenyl	0.0012	U	0.010	0.0012	mg/L		01/14/25 09:47	01/14/25 23:23	1
Acetophenone	0.0023	U	0.010	0.0023	mg/L		01/14/25 09:47	01/14/25 23:23	1
Benzaldehyde	0.0021	U	0.010	0.0021	mg/L		01/14/25 09:47	01/14/25 23:23	1
Caprolactam	0.0022	U	0.010	0.0022	mg/L		01/14/25 09:47	01/14/25 23:23	1
Atrazine	0.0013	U	0.0020	0.0013	mg/L		01/14/25 09:47	01/14/25 23:23	1
2,2'-oxybis[1-chloropropane]	0.00063	U	0.010	0.00063	mg/L		01/14/25 09:47	01/14/25 23:23	1
1,2,4,5-Tetrachlorobenzene	0.0012	U	0.010	0.0012	mg/L		01/14/25 09:47	01/14/25 23:23	1
2,3,4,6-Tetrachlorophenol	0.00075	U	0.010	0.00075	mg/L		01/14/25 09:47	01/14/25 23:23	1
3,3'-Dichlorobenzidine	0.0014	U	0.010	0.0014	mg/L		01/14/25 09:47	01/14/25 23:23	1
Bis(2-chloroethoxy)methane	0.00059	U	0.010	0.00059	mg/L		01/14/25 09:47	01/14/25 23:23	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		mg/L			N/A	01/14/25 09:47	01/14/25 23:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	91		51 - 145	01/14/25 09:47	01/14/25 23:23	1
Phenol-d5 (Surr)	28		10 - 56	01/14/25 09:47	01/14/25 23:23	1
Terphenyl-d14 (Surr)	90		13 - 159	01/14/25 09:47	01/14/25 23:23	1
2,4,6-Tribromophenol (Surr)	88		37 - 150	01/14/25 09:47	01/14/25 23:23	1
2-Fluorophenol (Surr)	43		16 - 80	01/14/25 09:47	01/14/25 23:23	1
2-Fluorobiphenyl	79		46 - 139	01/14/25 09:47	01/14/25 23:23	1

Lab Sample ID: LCS 460-1016420/2-A

Matrix: Water

Analysis Batch: 1016492

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1016420

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenol	0.0800	0.0259		mg/L		32	10 - 80
2-Chlorophenol	0.0800	0.0599		mg/L		75	49 - 120
2-Methylphenol	0.0800	0.0535		mg/L		67	35 - 120
4-Methylphenol	0.0800	0.0483		mg/L		60	28 - 120
2-Nitrophenol	0.0800	0.0699		mg/L		87	62 - 124
2,4-Dimethylphenol	0.0800	0.0800		mg/L		100	37 - 120
2,4-Dichlorophenol	0.0800	0.0669		mg/L		84	60 - 120
4-Chloro-3-methylphenol	0.0800	0.0669		mg/L		84	54 - 120
2,4,6-Trichlorophenol	0.0800	0.0741		mg/L		93	66 - 131
2,4,5-Trichlorophenol	0.0800	0.0749		mg/L		94	63 - 124
2,4-Dinitrotoluene	0.0800	0.0812		mg/L		101	71 - 142
4-Nitrophenol	0.160	0.0699		mg/L		44	10 - 120
4,6-Dinitro-2-methylphenol	0.160	0.158		mg/L		99	65 - 145
Pentachlorophenol	0.160	0.150		mg/L		94	60 - 140

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QC Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

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

Lab Sample ID: LCS 460-1016420/2-A

Matrix: Water

Analysis Batch: 1016492

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1016420

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-chloroethyl)ether	0.0800	0.0721		mg/L		90	61 - 125
N-Nitrosodi-n-propylamine	0.0800	0.0800		mg/L		100	63 - 133
Hexachloroethane	0.0800	0.0558		mg/L		70	10 - 138
Nitrobenzene	0.0800	0.0746		mg/L		93	66 - 127
Isophorone	0.0800	0.0778		mg/L		97	65 - 128
Naphthalene	0.0800	0.0665		mg/L		83	39 - 126
4-Chloroaniline	0.0800	0.0667		mg/L		83	43 - 120
Hexachlorobutadiene	0.0800	0.0605		mg/L		76	10 - 147
2-Methylnaphthalene	0.0800	0.0610		mg/L		76	42 - 134
Hexachlorocyclopentadiene	0.0800	0.0755		mg/L		94	10 - 135
2-Chloronaphthalene	0.0800	0.0698		mg/L		87	50 - 129
2-Nitroaniline	0.0800	0.0799		mg/L		100	57 - 134
Dimethyl phthalate	0.0800	0.0759		mg/L		95	67 - 129
Acenaphthylene	0.0800	0.0772		mg/L		96	58 - 122
2,6-Dinitrotoluene	0.0800	0.0787		mg/L		98	71 - 136
3-Nitroaniline	0.0800	0.0658		mg/L		82	51 - 120
Acenaphthene	0.0800	0.0720		mg/L		90	62 - 127
Dibenzofuran	0.0800	0.0723		mg/L		90	64 - 125
2,4-Dinitrophenol	0.160	0.161		mg/L		101	50 - 148
Diethyl phthalate	0.0800	0.0739		mg/L		92	67 - 131
4-Chlorophenyl phenyl ether	0.0800	0.0746		mg/L		93	65 - 127
Fluorene	0.0800	0.0770		mg/L		96	67 - 125
4-Nitroaniline	0.0800	0.0797		mg/L		100	57 - 135
N-Nitrosodiphenylamine	0.0800	0.0753		mg/L		94	66 - 128
4-Bromophenyl phenyl ether	0.0800	0.0736		mg/L		92	59 - 132
Hexachlorobenzene	0.0800	0.0752		mg/L		94	62 - 135
Phenanthrene	0.0800	0.0746		mg/L		93	68 - 126
Anthracene	0.0800	0.0764		mg/L		95	67 - 127
Carbazole	0.0800	0.0776		mg/L		97	68 - 132
Di-n-butyl phthalate	0.0800	0.0735		mg/L		92	71 - 139
Fluoranthene	0.0800	0.0743		mg/L		93	69 - 137
Pyrene	0.0800	0.0742		mg/L		93	60 - 137
Butyl benzyl phthalate	0.0800	0.0780		mg/L		97	67 - 141
Benzo[a]anthracene	0.0800	0.0738		mg/L		92	71 - 131
Chrysene	0.0800	0.0753		mg/L		94	70 - 132
Bis(2-ethylhexyl) phthalate	0.0800	0.0810		mg/L		101	65 - 144
Di-n-octyl phthalate	0.0800	0.0797		mg/L		100	51 - 150
Benzo[b]fluoranthene	0.0800	0.0813		mg/L		102	70 - 140
Benzo[k]fluoranthene	0.0800	0.0803		mg/L		100	71 - 140
Benzo[a]pyrene	0.0800	0.0860		mg/L		107	75 - 148
Indeno[1,2,3-cd]pyrene	0.0800	0.0826		mg/L		103	59 - 150
Dibenz(a,h)anthracene	0.0800	0.0819		mg/L		102	53 - 150
Benzo[g,h,i]perylene	0.0800	0.0851		mg/L		106	52 - 143
1,1'-Biphenyl	0.0800	0.0698		mg/L		87	52 - 129
Acetophenone	0.0800	0.0727		mg/L		91	65 - 125
Benzaldehyde	0.0400	0.0363		mg/L		91	10 - 150
Caprolactam	0.0400	0.00937	J	mg/L		23	10 - 120
Atrazine	0.0400	0.0417		mg/L		104	13 - 150
2,2'-oxybis[1-chloropropane]	0.0800	0.0713		mg/L		89	47 - 133

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QC Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

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

Lab Sample ID: LCS 460-1016420/2-A

Matrix: Water

Analysis Batch: 1016492

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1016420

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	0.0800	0.0677		mg/L		85	40 - 136
2,3,4,6-Tetrachlorophenol	0.0800	0.0775		mg/L		97	63 - 131
3,3'-Dichlorobenzidine	0.0800	0.0730		mg/L		91	55 - 145
Bis(2-chloroethoxy)methane	0.0800	0.0734		mg/L		92	63 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5 (Surr)	84		51 - 145
Phenol-d5 (Surr)	26		10 - 56
Terphenyl-d14 (Surr)	75		13 - 159
2,4,6-Tribromophenol (Surr)	88		37 - 150
2-Fluorophenol (Surr)	40		16 - 80
2-Fluorobiphenyl	74		46 - 139

Lab Sample ID: LCSD 460-1016420/3-A

Matrix: Water

Analysis Batch: 1016492

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1016420

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenol	0.0800	0.0234		mg/L		29	10 - 80	10	30
2-Chlorophenol	0.0800	0.0605		mg/L		76	49 - 120	1	30
2-Methylphenol	0.0800	0.0534		mg/L		67	35 - 120	0	30
4-Methylphenol	0.0800	0.0484		mg/L		61	28 - 120	0	30
2-Nitrophenol	0.0800	0.0681		mg/L		85	62 - 124	3	30
2,4-Dimethylphenol	0.0800	0.0789		mg/L		99	37 - 120	1	30
2,4-Dichlorophenol	0.0800	0.0683		mg/L		85	60 - 120	2	30
4-Chloro-3-methylphenol	0.0800	0.0666		mg/L		83	54 - 120	0	30
2,4,6-Trichlorophenol	0.0800	0.0755		mg/L		94	66 - 131	2	30
2,4,5-Trichlorophenol	0.0800	0.0769		mg/L		96	63 - 124	3	30
2,4-Dinitrotoluene	0.0800	0.0803		mg/L		100	71 - 142	1	30
4-Nitrophenol	0.160	0.0688		mg/L		43	10 - 120	2	30
4,6-Dinitro-2-methylphenol	0.160	0.160		mg/L		100	65 - 145	1	30
Pentachlorophenol	0.160	0.153		mg/L		95	60 - 140	2	30
Bis(2-chloroethyl)ether	0.0800	0.0733		mg/L		92	61 - 125	2	30
N-Nitrosodi-n-propylamine	0.0800	0.0808		mg/L		101	63 - 133	1	30
Hexachloroethane	0.0800	0.0550		mg/L		69	10 - 138	1	30
Nitrobenzene	0.0800	0.0756		mg/L		94	66 - 127	1	30
Isophorone	0.0800	0.0783		mg/L		98	65 - 128	1	30
Naphthalene	0.0800	0.0668		mg/L		84	39 - 126	0	30
4-Chloroaniline	0.0800	0.0674		mg/L		84	43 - 120	1	30
Hexachlorobutadiene	0.0800	0.0602		mg/L		75	10 - 147	1	30
2-Methylnaphthalene	0.0800	0.0610		mg/L		76	42 - 134	0	30
Hexachlorocyclopentadiene	0.0800	0.0767		mg/L		96	10 - 135	2	30
2-Chloronaphthalene	0.0800	0.0701		mg/L		88	50 - 129	0	30
2-Nitroaniline	0.0800	0.0789		mg/L		99	57 - 134	1	30
Dimethyl phthalate	0.0800	0.0762		mg/L		95	67 - 129	0	30
Acenaphthylene	0.0800	0.0772		mg/L		97	58 - 122	0	30
2,6-Dinitrotoluene	0.0800	0.0781		mg/L		98	71 - 136	1	30
3-Nitroaniline	0.0800	0.0663		mg/L		83	51 - 120	1	30

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QC Sample Results

Client: Colliers Engineering and Design Inc
Project/Site: City of Chester

Job ID: 460-318705-1

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

Lab Sample ID: LCSD 460-1016420/3-A

Matrix: Water

Analysis Batch: 1016492

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1016420

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	0.0800	0.0731		mg/L		91	62 - 127	1	30
Dibenzofuran	0.0800	0.0726		mg/L		91	64 - 125	0	30
2,4-Dinitrophenol	0.160	0.157		mg/L		98	50 - 148	2	30
Diethyl phthalate	0.0800	0.0741		mg/L		93	67 - 131	0	30
4-Chlorophenyl phenyl ether	0.0800	0.0743		mg/L		93	65 - 127	0	30
Fluorene	0.0800	0.0769		mg/L		96	67 - 125	0	30
4-Nitroaniline	0.0800	0.0807		mg/L		101	57 - 135	1	30
N-Nitrosodiphenylamine	0.0800	0.0756		mg/L		94	66 - 128	0	30
4-Bromophenyl phenyl ether	0.0800	0.0726		mg/L		91	59 - 132	1	30
Hexachlorobenzene	0.0800	0.0762		mg/L		95	62 - 135	1	30
Phenanthrene	0.0800	0.0755		mg/L		94	68 - 126	1	30
Anthracene	0.0800	0.0766		mg/L		96	67 - 127	0	30
Carbazole	0.0800	0.0789		mg/L		99	68 - 132	2	30
Di-n-butyl phthalate	0.0800	0.0744		mg/L		93	71 - 139	1	30
Fluoranthene	0.0800	0.0755		mg/L		94	69 - 137	2	30
Pyrene	0.0800	0.0728		mg/L		91	60 - 137	2	30
Butyl benzyl phthalate	0.0800	0.0784		mg/L		98	67 - 141	0	30
Benzo[a]anthracene	0.0800	0.0737		mg/L		92	71 - 131	0	30
Chrysene	0.0800	0.0763		mg/L		95	70 - 132	1	30
Bis(2-ethylhexyl) phthalate	0.0800	0.0816		mg/L		102	65 - 144	1	30
Di-n-octyl phthalate	0.0800	0.0798		mg/L		100	51 - 150	0	30
Benzo[b]fluoranthene	0.0800	0.0799		mg/L		100	70 - 140	2	30
Benzo[k]fluoranthene	0.0800	0.0808		mg/L		101	71 - 140	1	30
Benzo[a]pyrene	0.0800	0.0858		mg/L		107	75 - 148	0	30
Indeno[1,2,3-cd]pyrene	0.0800	0.0829		mg/L		104	59 - 150	0	30
Dibenz(a,h)anthracene	0.0800	0.0804		mg/L		101	53 - 150	2	30
Benzo[g,h,i]perylene	0.0800	0.0858		mg/L		107	52 - 143	1	30
1,1'-Biphenyl	0.0800	0.0713		mg/L		89	52 - 129	2	30
Acetophenone	0.0800	0.0732		mg/L		91	65 - 125	1	30
Benzaldehyde	0.0400	0.0366		mg/L		91	10 - 150	1	30
Caprolactam	0.0400	0.00899	J	mg/L		22	10 - 120	4	30
Atrazine	0.0400	0.0422		mg/L		105	13 - 150	1	30
2,2'-oxybis[1-chloropropane]	0.0800	0.0713		mg/L		89	47 - 133	0	30
1,2,4,5-Tetrachlorobenzene	0.0800	0.0672		mg/L		84	40 - 136	1	30
2,3,4,6-Tetrachlorophenol	0.0800	0.0769		mg/L		96	63 - 131	1	30
3,3'-Dichlorobenzidine	0.0800	0.0733		mg/L		92	55 - 145	0	30
Bis(2-chloroethoxy)methane	0.0800	0.0735		mg/L		92	63 - 122	0	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
Nitrobenzene-d5 (Surr)	84		51 - 145
Phenol-d5 (Surr)	26		10 - 56
Terphenyl-d14 (Surr)	74		13 - 159
2,4,6-Tribromophenol (Surr)	87		37 - 150
2-Fluorophenol (Surr)	41		16 - 80
2-Fluorobiphenyl	75		46 - 139

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