

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 460-1016733/1-A

Matrix: Solid

Analysis Batch: 1016768

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1016733

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
1,2,4,5-Tetrachlorobenzene	0.010	U	0.33	0.010	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
2,2'-oxybis[1-chloropropane]	0.020	U	0.33	0.020	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
2,3,4,6-Tetrachlorophenol	0.022	U	0.33	0.022	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
2,4,6-Trichlorophenol	0.042	U	0.13	0.042	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
2,4-Dimethylphenol	0.039	U	0.33	0.039	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
2,4-Dinitrotoluene	0.036	U	0.067	0.036	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
2,6-Dinitrotoluene	0.024	U	0.067	0.024	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
2-Methylnaphthalene	0.0093	U	0.33	0.0093	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
4-Nitrophenol	0.054	U	0.67	0.054	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
Acenaphthene	0.0094	U	0.33	0.0094	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
Acenaphthylene	0.0095	U	0.33	0.0095	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
Anthracene	0.010	U	0.33	0.010	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
Atrazine	0.019	U	0.13	0.019	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
Benzo[a]pyrene	0.0088	U	0.033	0.0088	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
Benzo[b]fluoranthene	0.0086	U	0.033	0.0086	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
Benzo[g,h,i]perylene	0.0098	U	0.33	0.0098	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
Benzo[k]fluoranthene	0.0065	U	0.033	0.0065	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
Bis(2-ethylhexyl) phthalate	0.017	U	0.33	0.017	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
Caprolactam	0.051	U	0.33	0.051	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
Carbazole	0.013	U	0.33	0.013	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
Chrysene	0.014	U	0.33	0.014	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg		01/15/25 20:16	01/16/25 07:20	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 460-1016733/1-A

Matrix: Solid

Analysis Batch: 1016768

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1016733

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	0.075	U	0.33	0.075	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
Di-n-butyl phthalate	0.012	U	0.33	0.012	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
Fluoranthene	0.012	U	0.33	0.012	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
Fluorene	0.0097	U	0.33	0.0097	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
Hexachlorobutadiene	0.0070	U	0.067	0.0070	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
Hexachlorocyclopentadiene	0.029	U	0.33	0.029	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
Isophorone	0.096	U	0.13	0.096	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
Naphthalene	0.0057	U	0.33	0.0057	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
Nitrobenzene	0.018	U	0.033	0.018	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
Pentachlorophenol	0.068	U	0.27	0.068	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
Phenanthrene	0.014	U	0.33	0.014	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
Phenol	0.012	U	0.33	0.012	mg/Kg		01/15/25 20:16	01/16/25 07:20	1
Pyrene	0.0082	U	0.33	0.0082	mg/Kg		01/15/25 20:16	01/16/25 07:20	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Aldol condensation product	0.787	A J	mg/Kg		2.26	N/A	01/15/25 20:16	01/16/25 07:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	93		30 - 130	01/15/25 20:16	01/16/25 07:20	1
2-Fluorobiphenyl	86		30 - 130	01/15/25 20:16	01/16/25 07:20	1
2-Fluorophenol (Surr)	99		30 - 130	01/15/25 20:16	01/16/25 07:20	1
Nitrobenzene-d5 (Surr)	98		30 - 130	01/15/25 20:16	01/16/25 07:20	1
Phenol-d5 (Surr)	97		30 - 130	01/15/25 20:16	01/16/25 07:20	1
Terphenyl-d14 (Surr)	98		30 - 130	01/15/25 20:16	01/16/25 07:20	1

Lab Sample ID: LCS 460-1016733/2-A

Matrix: Solid

Analysis Batch: 1016768

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1016733

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	3.33	3.28		mg/Kg		98	70 - 130
1,2,4,5-Tetrachlorobenzene	3.33	3.23		mg/Kg		97	70 - 130
2,2'-oxybis[1-chloropropane]	3.33	3.51		mg/Kg		105	70 - 130
2,3,4,6-Tetrachlorophenol	3.33	3.43		mg/Kg		103	70 - 130
2,4,5-Trichlorophenol	3.33	3.34		mg/Kg		100	20 - 160
2,4,6-Trichlorophenol	3.33	3.34		mg/Kg		100	20 - 160
2,4-Dichlorophenol	3.33	3.43		mg/Kg		103	70 - 130
2,4-Dimethylphenol	3.33	3.99		mg/Kg		120	70 - 130
2,4-Dinitrophenol	6.67	7.25		mg/Kg		109	20 - 160
2,4-Dinitrotoluene	3.33	3.81		mg/Kg		114	70 - 130
2,6-Dinitrotoluene	3.33	3.73		mg/Kg		112	70 - 130
2-Chloronaphthalene	3.33	3.26		mg/Kg		98	70 - 130

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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 460-1016733/2-A

Matrix: Solid

Analysis Batch: 1016768

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1016733

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chlorophenol	3.33	3.27		mg/Kg		98	70 - 130
2-Methylnaphthalene	3.33	2.90		mg/Kg		87	70 - 130
2-Methylphenol	3.33	3.44		mg/Kg		103	70 - 130
2-Nitroaniline	3.33	3.39		mg/Kg		102	20 - 160
2-Nitrophenol	3.33	3.57		mg/Kg		107	70 - 130
3,3'-Dichlorobenzidine	3.33	1.56	*	mg/Kg		47	70 - 130
3-Nitroaniline	3.33	1.82		mg/Kg		55	20 - 160
4,6-Dinitro-2-methylphenol	6.67	7.32		mg/Kg		110	20 - 160
4-Bromophenyl phenyl ether	3.33	3.31		mg/Kg		99	70 - 130
4-Chloro-3-methylphenol	3.33	3.48		mg/Kg		104	20 - 160
4-Chloroaniline	3.33	1.56		mg/Kg		47	20 - 160
4-Chlorophenyl phenyl ether	3.33	3.39		mg/Kg		102	70 - 130
4-Methylphenol	3.33	3.35		mg/Kg		100	70 - 130
4-Nitroaniline	3.33	3.25		mg/Kg		98	20 - 160
4-Nitrophenol	6.67	6.56		mg/Kg		98	20 - 160
Acenaphthene	3.33	3.41		mg/Kg		102	70 - 130
Acenaphthylene	3.33	3.60		mg/Kg		108	70 - 130
Acetophenone	3.33	3.19		mg/Kg		96	70 - 130
Anthracene	3.33	3.42		mg/Kg		103	70 - 130
Atrazine	1.33	1.62		mg/Kg		121	70 - 130
Benzaldehyde	1.33	1.52		mg/Kg		114	20 - 160
Benzo[a]anthracene	3.33	3.27		mg/Kg		98	70 - 130
Benzo[a]pyrene	3.33	3.57		mg/Kg		107	70 - 130
Benzo[b]fluoranthene	3.33	3.42		mg/Kg		102	70 - 130
Benzo[g,h,i]perylene	3.33	3.23		mg/Kg		97	70 - 130
Benzo[k]fluoranthene	3.33	3.44		mg/Kg		103	70 - 130
Bis(2-chloroethoxy)methane	3.33	3.40		mg/Kg		102	70 - 130
Bis(2-chloroethyl)ether	3.33	3.27		mg/Kg		98	70 - 130
Bis(2-ethylhexyl) phthalate	3.33	3.50		mg/Kg		105	70 - 130
Butyl benzyl phthalate	3.33	3.30		mg/Kg		99	70 - 130
Caprolactam	1.33	1.56		mg/Kg		117	20 - 160
Carbazole	3.33	3.39		mg/Kg		102	70 - 130
Chrysene	3.33	3.29		mg/Kg		99	70 - 130
Dibenz(a,h)anthracene	3.33	3.36		mg/Kg		101	70 - 130
Dibenzofuran	3.33	3.37		mg/Kg		101	70 - 130
Diethyl phthalate	3.33	3.42		mg/Kg		103	70 - 130
Dimethyl phthalate	3.33	3.34		mg/Kg		100	70 - 130
Di-n-butyl phthalate	3.33	3.29		mg/Kg		99	70 - 130
Di-n-octyl phthalate	3.33	3.40		mg/Kg		102	70 - 130
Fluoranthene	3.33	3.31		mg/Kg		99	70 - 130
Fluorene	3.33	3.41		mg/Kg		102	70 - 130
Hexachlorobenzene	3.33	3.17		mg/Kg		95	70 - 130
Hexachlorobutadiene	3.33	3.19		mg/Kg		96	70 - 130
Hexachlorocyclopentadiene	3.33	4.60		mg/Kg		138	20 - 160
Hexachloroethane	3.33	3.18		mg/Kg		95	70 - 130
Indeno[1,2,3-cd]pyrene	3.33	3.17		mg/Kg		95	70 - 130
Isophorone	3.33	3.46		mg/Kg		104	70 - 130
Naphthalene	3.33	3.25		mg/Kg		98	70 - 130
Nitrobenzene	3.33	3.57		mg/Kg		107	70 - 130

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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 460-1016733/2-A

Matrix: Solid

Analysis Batch: 1016768

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1016733

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
N-Nitrosodi-n-propylamine	3.33	3.47		mg/Kg		104	70 - 130
N-Nitrosodiphenylamine	3.33	3.28		mg/Kg		99	70 - 130
Pentachlorophenol	6.67	6.84		mg/Kg		103	20 - 160
Phenanthrene	3.33	3.34		mg/Kg		100	70 - 130
Phenol	3.33	3.40		mg/Kg		102	20 - 160
Pyrene	3.33	3.37		mg/Kg		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	100		30 - 130
2-Fluorobiphenyl	90		30 - 130
2-Fluorophenol (Surr)	93		30 - 130
Nitrobenzene-d5 (Surr)	93		30 - 130
Phenol-d5 (Surr)	95		30 - 130
Terphenyl-d14 (Surr)	86		30 - 130

Lab Sample ID: LCSD 460-1016733/3-A

Matrix: Solid

Analysis Batch: 1016768

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1016733

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	3.33	3.31		mg/Kg		99	70 - 130	1	30
1,2,4,5-Tetrachlorobenzene	3.33	3.26		mg/Kg		98	70 - 130	1	30
2,2'-oxybis[1-chloropropane]	3.33	3.52		mg/Kg		106	70 - 130	0	30
2,3,4,6-Tetrachlorophenol	3.33	3.48		mg/Kg		104	70 - 130	1	30
2,4,5-Trichlorophenol	3.33	3.38		mg/Kg		101	20 - 160	1	30
2,4,6-Trichlorophenol	3.33	3.35		mg/Kg		100	20 - 160	0	30
2,4-Dichlorophenol	3.33	3.52		mg/Kg		105	70 - 130	2	30
2,4-Dimethylphenol	3.33	4.06		mg/Kg		122	70 - 130	2	30
2,4-Dinitrophenol	6.67	7.31		mg/Kg		110	20 - 160	1	30
2,4-Dinitrotoluene	3.33	3.81		mg/Kg		114	70 - 130	0	30
2,6-Dinitrotoluene	3.33	3.71		mg/Kg		111	70 - 130	1	30
2-Chloronaphthalene	3.33	3.30		mg/Kg		99	70 - 130	1	30
2-Chlorophenol	3.33	3.32		mg/Kg		100	70 - 130	2	30
2-Methylnaphthalene	3.33	3.00		mg/Kg		90	70 - 130	3	30
2-Methylphenol	3.33	3.50		mg/Kg		105	70 - 130	2	30
2-Nitroaniline	3.33	3.35		mg/Kg		100	20 - 160	1	30
2-Nitrophenol	3.33	3.62		mg/Kg		109	70 - 130	1	30
3,3'-Dichlorobenzidine	3.33	1.54	*	mg/Kg		46	70 - 130	1	30
3-Nitroaniline	3.33	1.68		mg/Kg		50	20 - 160	8	30
4,6-Dinitro-2-methylphenol	6.67	7.60		mg/Kg		114	20 - 160	4	30
4-Bromophenyl phenyl ether	3.33	3.44		mg/Kg		103	70 - 130	4	30
4-Chloro-3-methylphenol	3.33	3.48		mg/Kg		104	20 - 160	0	30
4-Chloroaniline	3.33	1.46		mg/Kg		44	20 - 160	7	30
4-Chlorophenyl phenyl ether	3.33	3.38		mg/Kg		102	70 - 130	0	30
4-Methylphenol	3.33	3.37		mg/Kg		101	70 - 130	1	30
4-Nitroaniline	3.33	3.28		mg/Kg		98	20 - 160	1	30
4-Nitrophenol	6.67	6.43		mg/Kg		96	20 - 160	2	30
Acenaphthene	3.33	3.36		mg/Kg		101	70 - 130	1	30

Eurofins Edison

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 460-1016733/3-A

Matrix: Solid

Analysis Batch: 1016768

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1016733

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthylene	3.33	3.60		mg/Kg		108	70 - 130	0	30
Acetophenone	3.33	3.23		mg/Kg		97	70 - 130	1	30
Anthracene	3.33	3.47		mg/Kg		104	70 - 130	2	30
Atrazine	1.33	1.68		mg/Kg		126	70 - 130	4	30
Benzaldehyde	1.33	1.57		mg/Kg		118	20 - 160	3	30
Benzo[a]anthracene	3.33	3.26		mg/Kg		98	70 - 130	0	30
Benzo[a]pyrene	3.33	3.72		mg/Kg		112	70 - 130	4	30
Benzo[b]fluoranthene	3.33	3.47		mg/Kg		104	70 - 130	2	30
Benzo[g,h,i]perylene	3.33	3.37		mg/Kg		101	70 - 130	5	30
Benzo[k]fluoranthene	3.33	3.54		mg/Kg		106	70 - 130	3	30
Bis(2-chloroethoxy)methane	3.33	3.50		mg/Kg		105	70 - 130	3	30
Bis(2-chloroethyl)ether	3.33	3.32		mg/Kg		100	70 - 130	1	30
Bis(2-ethylhexyl) phthalate	3.33	3.58		mg/Kg		108	70 - 130	2	30
Butyl benzyl phthalate	3.33	3.39		mg/Kg		102	70 - 130	3	30
Caprolactam	1.33	1.63		mg/Kg		122	20 - 160	4	30
Carbazole	3.33	3.36		mg/Kg		101	70 - 130	1	30
Chrysene	3.33	3.40		mg/Kg		102	70 - 130	3	30
Dibenz(a,h)anthracene	3.33	3.42		mg/Kg		102	70 - 130	2	30
Dibenzofuran	3.33	3.32		mg/Kg		99	70 - 130	2	30
Diethyl phthalate	3.33	3.39		mg/Kg		102	70 - 130	1	30
Dimethyl phthalate	3.33	3.36		mg/Kg		101	70 - 130	1	30
Di-n-butyl phthalate	3.33	3.35		mg/Kg		101	70 - 130	2	30
Di-n-octyl phthalate	3.33	3.56		mg/Kg		107	70 - 130	5	30
Fluoranthene	3.33	3.41		mg/Kg		102	70 - 130	3	30
Fluorene	3.33	3.43		mg/Kg		103	70 - 130	1	30
Hexachlorobenzene	3.33	3.26		mg/Kg		98	70 - 130	3	30
Hexachlorobutadiene	3.33	3.23		mg/Kg		97	70 - 130	1	30
Hexachlorocyclopentadiene	3.33	4.68		mg/Kg		140	20 - 160	2	30
Hexachloroethane	3.33	3.22		mg/Kg		97	70 - 130	1	30
Indeno[1,2,3-cd]pyrene	3.33	3.18		mg/Kg		95	70 - 130	0	30
Isophorone	3.33	3.50		mg/Kg		105	70 - 130	1	30
Naphthalene	3.33	3.33		mg/Kg		100	70 - 130	2	30
Nitrobenzene	3.33	3.50		mg/Kg		105	70 - 130	2	30
N-Nitrosodi-n-propylamine	3.33	3.50		mg/Kg		105	70 - 130	1	30
N-Nitrosodiphenylamine	3.33	3.37		mg/Kg		101	70 - 130	3	30
Pentachlorophenol	6.67	7.03		mg/Kg		105	20 - 160	3	30
Phenanthrene	3.33	3.41		mg/Kg		102	70 - 130	2	30
Phenol	3.33	3.44		mg/Kg		103	20 - 160	1	30
Pyrene	3.33	3.43		mg/Kg		103	70 - 130	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)	99		30 - 130
2-Fluorobiphenyl	90		30 - 130
2-Fluorophenol (Surr)	95		30 - 130
Nitrobenzene-d5 (Surr)	95		30 - 130
Phenol-d5 (Surr)	97		30 - 130
Terphenyl-d14 (Surr)	87		30 - 130

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QC Sample Results

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

Job ID: 460-318705-1

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 460-1016479/1-A

Matrix: Solid

Analysis Batch: 1016538

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1016479

Analyte	MB Result	MB 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 05:22	1
Aldrin	0.0010	U	0.0067	0.0010	mg/Kg		01/14/25 17:11	01/15/25 05:22	1
alpha-BHC	0.00068	U	0.0020	0.00068	mg/Kg		01/14/25 17:11	01/15/25 05:22	1
alpha-BHC	0.00068	U	0.0020	0.00068	mg/Kg		01/14/25 17:11	01/15/25 05:22	1
beta-BHC	0.00075	U	0.0020	0.00075	mg/Kg		01/14/25 17:11	01/15/25 05:22	1
beta-BHC	0.00075	U	0.0020	0.00075	mg/Kg		01/14/25 17:11	01/15/25 05:22	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg		01/14/25 17:11	01/15/25 05:22	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg		01/14/25 17:11	01/15/25 05:22	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg		01/14/25 17:11	01/15/25 05:22	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg		01/14/25 17:11	01/15/25 05:22	1
Chlordane (technical)	0.016	U	0.067	0.016	mg/Kg		01/14/25 17:11	01/15/25 05:22	1
Chlordane (technical)	0.016	U	0.067	0.016	mg/Kg		01/14/25 17:11	01/15/25 05:22	1
4,4'-DDD	0.0011	U	0.0067	0.0011	mg/Kg		01/14/25 17:11	01/15/25 05:22	1
4,4'-DDD	0.0011	U	0.0067	0.0011	mg/Kg		01/14/25 17:11	01/15/25 05:22	1
4,4'-DDE	0.00079	U	0.0067	0.00079	mg/Kg		01/14/25 17:11	01/15/25 05:22	1
4,4'-DDE	0.00079	U	0.0067	0.00079	mg/Kg		01/14/25 17:11	01/15/25 05:22	1
4,4'-DDT	0.0012	U	0.0067	0.0012	mg/Kg		01/14/25 17:11	01/15/25 05:22	1
4,4'-DDT	0.0012	U	0.0067	0.0012	mg/Kg		01/14/25 17:11	01/15/25 05:22	1
Dieldrin	0.00087	U	0.0020	0.00087	mg/Kg		01/14/25 17:11	01/15/25 05:22	1
Dieldrin	0.00087	U	0.0020	0.00087	mg/Kg		01/14/25 17:11	01/15/25 05:22	1
Endosulfan I	0.0010	U	0.0067	0.0010	mg/Kg		01/14/25 17:11	01/15/25 05:22	1
Endosulfan I	0.0010	U	0.0067	0.0010	mg/Kg		01/14/25 17:11	01/15/25 05:22	1
Endosulfan II	0.0017	U	0.0067	0.0017	mg/Kg		01/14/25 17:11	01/15/25 05:22	1
Endosulfan II	0.0017	U	0.0067	0.0017	mg/Kg		01/14/25 17:11	01/15/25 05:22	1
Endosulfan sulfate	0.00084	U	0.0067	0.00084	mg/Kg		01/14/25 17:11	01/15/25 05:22	1
Endosulfan sulfate	0.00084	U	0.0067	0.00084	mg/Kg		01/14/25 17:11	01/15/25 05:22	1
Endrin	0.00096	U	0.0067	0.00096	mg/Kg		01/14/25 17:11	01/15/25 05:22	1
Endrin	0.00096	U	0.0067	0.00096	mg/Kg		01/14/25 17:11	01/15/25 05:22	1
Endrin aldehyde	0.0016	U	0.0067	0.0016	mg/Kg		01/14/25 17:11	01/15/25 05:22	1
Endrin aldehyde	0.0016	U	0.0067	0.0016	mg/Kg		01/14/25 17:11	01/15/25 05:22	1
Endrin ketone	0.0013	U	0.0067	0.0013	mg/Kg		01/14/25 17:11	01/15/25 05:22	1
Endrin ketone	0.0013	U	0.0067	0.0013	mg/Kg		01/14/25 17:11	01/15/25 05:22	1
Heptachlor	0.00079	U	0.0067	0.00079	mg/Kg		01/14/25 17:11	01/15/25 05:22	1
Heptachlor	0.00079	U	0.0067	0.00079	mg/Kg		01/14/25 17:11	01/15/25 05:22	1
Heptachlor epoxide	0.0010	U	0.0067	0.0010	mg/Kg		01/14/25 17:11	01/15/25 05:22	1
Heptachlor epoxide	0.0010	U	0.0067	0.0010	mg/Kg		01/14/25 17:11	01/15/25 05:22	1
Methoxychlor	0.0015	U	0.0067	0.0015	mg/Kg		01/14/25 17:11	01/15/25 05:22	1
Methoxychlor	0.0015	U	0.0067	0.0015	mg/Kg		01/14/25 17:11	01/15/25 05:22	1
Toxaphene	0.024	U	0.067	0.024	mg/Kg		01/14/25 17:11	01/15/25 05:22	1
Toxaphene	0.024	U	0.067	0.024	mg/Kg		01/14/25 17:11	01/15/25 05:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	80		30 - 150	01/14/25 17:11	01/15/25 05:22	1
Tetrachloro-m-xylene	83		30 - 150	01/14/25 17:11	01/15/25 05:22	1
DCB Decachlorobiphenyl	98		30 - 150	01/14/25 17:11	01/15/25 05:22	1
DCB Decachlorobiphenyl	95		30 - 150	01/14/25 17:11	01/15/25 05:22	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: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 460-1016479/2-A

Matrix: Solid

Analysis Batch: 1016538

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1016479

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aldrin	0.133	0.130		mg/Kg		97	40 - 140
Aldrin	0.133	0.118		mg/Kg		89	40 - 140
alpha-BHC	0.133	0.132		mg/Kg		99	40 - 140
alpha-BHC	0.133	0.121		mg/Kg		91	40 - 140
beta-BHC	0.133	0.117		mg/Kg		88	40 - 140
beta-BHC	0.133	0.115		mg/Kg		86	40 - 140
delta-BHC	0.133	0.132		mg/Kg		99	40 - 140
delta-BHC	0.133	0.124		mg/Kg		93	40 - 140
gamma-BHC (Lindane)	0.133	0.131		mg/Kg		98	40 - 140
gamma-BHC (Lindane)	0.133	0.116		mg/Kg		87	40 - 140
4,4'-DDD	0.133	0.135		mg/Kg		102	40 - 140
4,4'-DDD	0.133	0.131		mg/Kg		98	40 - 140
4,4'-DDE	0.133	0.141		mg/Kg		105	40 - 140
4,4'-DDE	0.133	0.125		mg/Kg		94	40 - 140
4,4'-DDT	0.133	0.182		mg/Kg		137	40 - 140
4,4'-DDT	0.133	0.142		mg/Kg		106	40 - 140
Dieldrin	0.133	0.141		mg/Kg		105	40 - 140
Dieldrin	0.133	0.126		mg/Kg		94	40 - 140
Endosulfan I	0.133	0.136		mg/Kg		102	40 - 140
Endosulfan I	0.133	0.125		mg/Kg		94	40 - 140
Endosulfan II	0.133	0.141		mg/Kg		106	40 - 140
Endosulfan II	0.133	0.133		mg/Kg		99	40 - 140
Endosulfan sulfate	0.133	0.131		mg/Kg		98	40 - 140
Endosulfan sulfate	0.133	0.117		mg/Kg		88	40 - 140
Endrin	0.133	0.142		mg/Kg		106	40 - 140
Endrin	0.133	0.127		mg/Kg		95	40 - 140
Endrin aldehyde	0.133	0.128		mg/Kg		96	40 - 140
Endrin aldehyde	0.133	0.120		mg/Kg		90	40 - 140
Endrin ketone	0.133	0.135		mg/Kg		101	40 - 140
Endrin ketone	0.133	0.123		mg/Kg		92	40 - 140
Heptachlor	0.133	0.136		mg/Kg		102	40 - 140
Heptachlor	0.133	0.126		mg/Kg		94	40 - 140
Heptachlor epoxide	0.133	0.135		mg/Kg		101	40 - 140
Heptachlor epoxide	0.133	0.123		mg/Kg		92	40 - 140
Methoxychlor	0.133	0.171		mg/Kg		128	40 - 140
Methoxychlor	0.133	0.139		mg/Kg		104	40 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	69		30 - 150
Tetrachloro-m-xylene	75		30 - 150
DCB Decachlorobiphenyl	80		30 - 150
DCB Decachlorobiphenyl	81		30 - 150

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QC Sample Results

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

Job ID: 460-318705-1

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

Lab Sample ID: LCSD 460-1016479/3-A

Matrix: Solid

Analysis Batch: 1016538

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1016479

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aldrin	0.133	0.137		mg/Kg		103	40 - 140	5	30
Aldrin	0.133	0.126		mg/Kg		94	40 - 140	6	30
alpha-BHC	0.133	0.140		mg/Kg		105	40 - 140	6	30
alpha-BHC	0.133	0.129		mg/Kg		97	40 - 140	6	30
beta-BHC	0.133	0.123		mg/Kg		92	40 - 140	5	30
beta-BHC	0.133	0.121		mg/Kg		91	40 - 140	5	30
delta-BHC	0.133	0.138		mg/Kg		103	40 - 140	5	30
delta-BHC	0.133	0.130		mg/Kg		98	40 - 140	5	30
gamma-BHC (Lindane)	0.133	0.138		mg/Kg		104	40 - 140	6	30
gamma-BHC (Lindane)	0.133	0.124		mg/Kg		93	40 - 140	6	30
4,4'-DDD	0.133	0.141		mg/Kg		106	40 - 140	4	30
4,4'-DDD	0.133	0.136		mg/Kg		102	40 - 140	4	30
4,4'-DDE	0.133	0.148		mg/Kg		111	40 - 140	5	30
4,4'-DDE	0.133	0.132		mg/Kg		99	40 - 140	5	30
4,4'-DDT	0.133	0.190	+	mg/Kg		143	40 - 140	4	30
4,4'-DDT	0.133	0.148		mg/Kg		111	40 - 140	4	30
Dieldrin	0.133	0.147		mg/Kg		110	40 - 140	5	30
Dieldrin	0.133	0.132		mg/Kg		99	40 - 140	5	30
Endosulfan I	0.133	0.143		mg/Kg		107	40 - 140	5	30
Endosulfan I	0.133	0.132		mg/Kg		99	40 - 140	5	30
Endosulfan II	0.133	0.148		mg/Kg		111	40 - 140	5	30
Endosulfan II	0.133	0.139		mg/Kg		104	40 - 140	4	30
Endosulfan sulfate	0.133	0.136		mg/Kg		102	40 - 140	4	30
Endosulfan sulfate	0.133	0.122		mg/Kg		92	40 - 140	4	30
Endrin	0.133	0.149		mg/Kg		112	40 - 140	5	30
Endrin	0.133	0.133		mg/Kg		99	40 - 140	5	30
Endrin aldehyde	0.133	0.134		mg/Kg		101	40 - 140	5	30
Endrin aldehyde	0.133	0.127		mg/Kg		95	40 - 140	5	30
Endrin ketone	0.133	0.140		mg/Kg		105	40 - 140	4	30
Endrin ketone	0.133	0.128		mg/Kg		96	40 - 140	4	30
Heptachlor	0.133	0.144		mg/Kg		108	40 - 140	6	30
Heptachlor	0.133	0.134		mg/Kg		100	40 - 140	6	30
Heptachlor epoxide	0.133	0.142		mg/Kg		106	40 - 140	5	30
Heptachlor epoxide	0.133	0.129		mg/Kg		97	40 - 140	5	30
Methoxychlor	0.133	0.176		mg/Kg		132	40 - 140	3	30
Methoxychlor	0.133	0.143		mg/Kg		108	40 - 140	3	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	73		30 - 150
Tetrachloro-m-xylene	81		30 - 150
DCB Decachlorobiphenyl	84		30 - 150
DCB Decachlorobiphenyl	81		30 - 150

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QC Sample Results

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

Job ID: 460-318705-1

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

Lab Sample ID: MB 460-1016730/1-A

Matrix: Water

Analysis Batch: 1016754

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1016730

Analyte	MB Result	MB 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 03:47	1
Aldrin	0.0000030	U	0.000020	0.0000030	mg/L		01/15/25 19:57	01/16/25 03:47	1
alpha-BHC	0.0000070	U	0.000020	0.0000070	mg/L		01/15/25 19:57	01/16/25 03:47	1
alpha-BHC	0.0000070	U	0.000020	0.0000070	mg/L		01/15/25 19:57	01/16/25 03:47	1
beta-BHC	0.000015	U	0.000020	0.000015	mg/L		01/15/25 19:57	01/16/25 03:47	1
beta-BHC	0.000015	U	0.000020	0.000015	mg/L		01/15/25 19:57	01/16/25 03:47	1
Chlordane (technical)	0.000055	U	0.00050	0.000055	mg/L		01/15/25 19:57	01/16/25 03:47	1
Chlordane (technical)	0.000055	U	0.00050	0.000055	mg/L		01/15/25 19:57	01/16/25 03:47	1
4,4'-DDD	0.0000060	U	0.000020	0.0000060	mg/L		01/15/25 19:57	01/16/25 03:47	1
4,4'-DDD	0.0000060	U	0.000020	0.0000060	mg/L		01/15/25 19:57	01/16/25 03:47	1
4,4'-DDE	0.0000020	U	0.000020	0.0000020	mg/L		01/15/25 19:57	01/16/25 03:47	1
4,4'-DDE	0.0000020	U	0.000020	0.0000020	mg/L		01/15/25 19:57	01/16/25 03:47	1
4,4'-DDT	0.0000040	U	0.000020	0.0000040	mg/L		01/15/25 19:57	01/16/25 03:47	1
4,4'-DDT	0.0000040	U	0.000020	0.0000040	mg/L		01/15/25 19:57	01/16/25 03:47	1
delta-BHC	0.0000050	U	0.000020	0.0000050	mg/L		01/15/25 19:57	01/16/25 03:47	1
delta-BHC	0.0000050	U	0.000020	0.0000050	mg/L		01/15/25 19:57	01/16/25 03:47	1
Dieldrin	0.0000030	U	0.000020	0.0000030	mg/L		01/15/25 19:57	01/16/25 03:47	1
Dieldrin	0.0000030	U	0.000020	0.0000030	mg/L		01/15/25 19:57	01/16/25 03:47	1
Endosulfan I	0.0000020	U	0.000020	0.0000020	mg/L		01/15/25 19:57	01/16/25 03:47	1
Endosulfan I	0.0000020	U	0.000020	0.0000020	mg/L		01/15/25 19:57	01/16/25 03:47	1
Endosulfan II	0.0000040	U	0.000020	0.0000040	mg/L		01/15/25 19:57	01/16/25 03:47	1
Endosulfan II	0.0000040	U	0.000020	0.0000040	mg/L		01/15/25 19:57	01/16/25 03:47	1
Endosulfan sulfate	0.0000060	U	0.000020	0.0000060	mg/L		01/15/25 19:57	01/16/25 03:47	1
Endosulfan sulfate	0.0000060	U	0.000020	0.0000060	mg/L		01/15/25 19:57	01/16/25 03:47	1
Endrin	0.0000040	U	0.000020	0.0000040	mg/L		01/15/25 19:57	01/16/25 03:47	1
Endrin	0.0000040	U	0.000020	0.0000040	mg/L		01/15/25 19:57	01/16/25 03:47	1
Endrin aldehyde	0.0000080	U	0.000020	0.0000080	mg/L		01/15/25 19:57	01/16/25 03:47	1
Endrin aldehyde	0.0000080	U	0.000020	0.0000080	mg/L		01/15/25 19:57	01/16/25 03:47	1
Endrin ketone	0.0000080	U	0.000020	0.0000080	mg/L		01/15/25 19:57	01/16/25 03:47	1
Endrin ketone	0.0000080	U	0.000020	0.0000080	mg/L		01/15/25 19:57	01/16/25 03:47	1
gamma-BHC (Lindane)	0.000012	U	0.000020	0.000012	mg/L		01/15/25 19:57	01/16/25 03:47	1
gamma-BHC (Lindane)	0.000012	U	0.000020	0.000012	mg/L		01/15/25 19:57	01/16/25 03:47	1
Heptachlor	0.0000030	U	0.000020	0.0000030	mg/L		01/15/25 19:57	01/16/25 03:47	1
Heptachlor	0.0000030	U	0.000020	0.0000030	mg/L		01/15/25 19:57	01/16/25 03:47	1
Heptachlor epoxide	0.0000050	U	0.000020	0.0000050	mg/L		01/15/25 19:57	01/16/25 03:47	1
Heptachlor epoxide	0.0000050	U	0.000020	0.0000050	mg/L		01/15/25 19:57	01/16/25 03:47	1
Methoxychlor	0.0000040	U	0.000020	0.0000040	mg/L		01/15/25 19:57	01/16/25 03:47	1
Methoxychlor	0.0000040	U	0.000020	0.0000040	mg/L		01/15/25 19:57	01/16/25 03:47	1
Toxaphene	0.00011	U	0.00050	0.00011	mg/L		01/15/25 19:57	01/16/25 03:47	1
Toxaphene	0.00011	U	0.00050	0.00011	mg/L		01/15/25 19:57	01/16/25 03:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	69		30 - 131	01/15/25 19:57	01/16/25 03:47	1
DCB Decachlorobiphenyl	69		30 - 131	01/15/25 19:57	01/16/25 03:47	1
Tetrachloro-m-xylene	75		34 - 120	01/15/25 19:57	01/16/25 03:47	1
Tetrachloro-m-xylene	76		34 - 120	01/15/25 19:57	01/16/25 03:47	1

Eurofins Edison

QC Sample Results

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

Job ID: 460-318705-1

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

Lab Sample ID: LCS 460-1016730/2-A

Matrix: Water

Analysis Batch: 1016754

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1016730

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aldrin	0.000800	0.000803		mg/L		100	67 - 129
Aldrin	0.000800	0.000729		mg/L		91	67 - 129
alpha-BHC	0.000800	0.000804		mg/L		101	70 - 125
alpha-BHC	0.000800	0.000734		mg/L		92	70 - 125
beta-BHC	0.000800	0.000724		mg/L		90	70 - 129
beta-BHC	0.000800	0.000705		mg/L		88	70 - 129
4,4'-DDD	0.000800	0.000819		mg/L		102	69 - 138
4,4'-DDD	0.000800	0.000771		mg/L		96	69 - 138
4,4'-DDE	0.000800	0.000854		mg/L		107	68 - 130
4,4'-DDE	0.000800	0.000752		mg/L		94	68 - 130
4,4'-DDT	0.000800	0.00100		mg/L		126	57 - 1505
4,4'-DDT	0.000800	0.000784		mg/L		98	57 - 1505
delta-BHC	0.000800	0.000728		mg/L		91	44 - 120
delta-BHC	0.000800	0.000676		mg/L		85	44 - 120
Dieldrin	0.000800	0.000855		mg/L		107	72 - 128
Dieldrin	0.000800	0.000757		mg/L		95	72 - 128
Endosulfan I	0.000800	0.000833		mg/L		104	73 - 127
Endosulfan I	0.000800	0.000758		mg/L		95	73 - 127
Endosulfan II	0.000800	0.000863		mg/L		108	73 - 134
Endosulfan II	0.000800	0.000796		mg/L		99	73 - 134
Endosulfan sulfate	0.000800	0.000775		mg/L		97	61 - 128
Endosulfan sulfate	0.000800	0.000688		mg/L		86	61 - 128
Endrin	0.000800	0.000855		mg/L		107	64 - 138
Endrin	0.000800	0.000750		mg/L		94	64 - 138
Endrin aldehyde	0.000800	0.000826		mg/L		103	74 - 133
Endrin aldehyde	0.000800	0.000771		mg/L		96	74 - 133
Endrin ketone	0.000800	0.000818		mg/L		102	56 - 150
Endrin ketone	0.000800	0.000733		mg/L		92	56 - 150
gamma-BHC (Lindane)	0.000800	0.000803		mg/L		100	73 - 132
gamma-BHC (Lindane)	0.000800	0.000709		mg/L		89	73 - 132
Heptachlor	0.000800	0.000807		mg/L		101	70 - 134
Heptachlor	0.000800	0.000748		mg/L		94	70 - 134
Heptachlor epoxide	0.000800	0.000835		mg/L		104	75 - 126
Heptachlor epoxide	0.000800	0.000751		mg/L		94	75 - 126
Methoxychlor	0.000800	0.000942		mg/L		118	49 - 150
Methoxychlor	0.000800	0.000763		mg/L		95	49 - 150

Surrogate	LCS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	66		30 - 131
DCB Decachlorobiphenyl	62		30 - 131
Tetrachloro-m-xylene	71		34 - 120
Tetrachloro-m-xylene	76		34 - 120

Eurofins Edison

QC Sample Results

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

Job ID: 460-318705-1

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

Lab Sample ID: LCSD 460-1016730/3-A

Matrix: Water

Analysis Batch: 1016754

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1016730

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aldrin	0.000800	0.000803		mg/L		100	67 - 129	0	30
Aldrin	0.000800	0.000723		mg/L		90	67 - 129	1	30
alpha-BHC	0.000800	0.000800		mg/L		100	70 - 125	1	30
alpha-BHC	0.000800	0.000724		mg/L		91	70 - 125	1	30
beta-BHC	0.000800	0.000725		mg/L		91	70 - 129	0	30
beta-BHC	0.000800	0.000697		mg/L		87	70 - 129	1	30
4,4'-DDD	0.000800	0.000810		mg/L		101	69 - 138	1	30
4,4'-DDD	0.000800	0.000763		mg/L		95	69 - 138	1	30
4,4'-DDE	0.000800	0.000853		mg/L		107	68 - 130	0	30
4,4'-DDE	0.000800	0.000748		mg/L		93	68 - 130	1	30
4,4'-DDT	0.000800	0.000991		mg/L		124	57 - 1505	1	30
4,4'-DDT	0.000800	0.000773		mg/L		97	57 - 1505	1	30
delta-BHC	0.000800	0.000730		mg/L		91	44 - 120	0	30
delta-BHC	0.000800	0.000680		mg/L		85	44 - 120	1	30
Dieldrin	0.000800	0.000851		mg/L		106	72 - 128	0	30
Dieldrin	0.000800	0.000751		mg/L		94	72 - 128	1	30
Endosulfan I	0.000800	0.000831		mg/L		104	73 - 127	0	30
Endosulfan I	0.000800	0.000755		mg/L		94	73 - 127	0	30
Endosulfan II	0.000800	0.000859		mg/L		107	73 - 134	0	30
Endosulfan II	0.000800	0.000790		mg/L		99	73 - 134	1	30
Endosulfan sulfate	0.000800	0.000771		mg/L		96	61 - 128	0	30
Endosulfan sulfate	0.000800	0.000683		mg/L		85	61 - 128	1	30
Endrin	0.000800	0.000848		mg/L		106	64 - 138	1	30
Endrin	0.000800	0.000742		mg/L		93	64 - 138	1	30
Endrin aldehyde	0.000800	0.000828		mg/L		104	74 - 133	0	30
Endrin aldehyde	0.000800	0.000768		mg/L		96	74 - 133	0	30
Endrin ketone	0.000800	0.000814		mg/L		102	56 - 150	1	30
Endrin ketone	0.000800	0.000726		mg/L		91	56 - 150	1	30
gamma-BHC (Lindane)	0.000800	0.000801		mg/L		100	73 - 132	0	30
gamma-BHC (Lindane)	0.000800	0.000702		mg/L		88	73 - 132	1	30
Heptachlor	0.000800	0.000813		mg/L		102	70 - 134	1	30
Heptachlor	0.000800	0.000743		mg/L		93	70 - 134	1	30
Heptachlor epoxide	0.000800	0.000831		mg/L		104	75 - 126	0	30
Heptachlor epoxide	0.000800	0.000747		mg/L		93	75 - 126	1	30
Methoxychlor	0.000800	0.000920		mg/L		115	49 - 150	2	30
Methoxychlor	0.000800	0.000749		mg/L		94	49 - 150	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	70		30 - 131
DCB Decachlorobiphenyl	64		30 - 131
Tetrachloro-m-xylene	71		34 - 120
Tetrachloro-m-xylene	75		34 - 120

Eurofins Edison

QC Sample Results

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

Job ID: 460-318705-1

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

Lab Sample ID: MB 460-1017027/1-A

Matrix: Water

Analysis Batch: 1017004

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1017027

Analyte	MB Result	MB 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 14:57	1
Aldrin	0.0000030	U	0.000020	0.0000030	mg/L		01/17/25 10:16	01/17/25 14:57	1
alpha-BHC	0.0000070	U	0.000020	0.0000070	mg/L		01/17/25 10:16	01/17/25 14:57	1
alpha-BHC	0.0000070	U	0.000020	0.0000070	mg/L		01/17/25 10:16	01/17/25 14:57	1
beta-BHC	0.000015	U	0.000020	0.000015	mg/L		01/17/25 10:16	01/17/25 14:57	1
beta-BHC	0.000015	U	0.000020	0.000015	mg/L		01/17/25 10:16	01/17/25 14:57	1
Chlordane (technical)	0.000055	U	0.00050	0.000055	mg/L		01/17/25 10:16	01/17/25 14:57	1
Chlordane (technical)	0.000055	U	0.00050	0.000055	mg/L		01/17/25 10:16	01/17/25 14:57	1
4,4'-DDD	0.0000060	U	0.000020	0.0000060	mg/L		01/17/25 10:16	01/17/25 14:57	1
4,4'-DDD	0.0000060	U	0.000020	0.0000060	mg/L		01/17/25 10:16	01/17/25 14:57	1
4,4'-DDE	0.0000020	U	0.000020	0.0000020	mg/L		01/17/25 10:16	01/17/25 14:57	1
4,4'-DDE	0.0000020	U	0.000020	0.0000020	mg/L		01/17/25 10:16	01/17/25 14:57	1
4,4'-DDT	0.0000040	U	0.000020	0.0000040	mg/L		01/17/25 10:16	01/17/25 14:57	1
4,4'-DDT	0.0000040	U	0.000020	0.0000040	mg/L		01/17/25 10:16	01/17/25 14:57	1
delta-BHC	0.0000050	U	0.000020	0.0000050	mg/L		01/17/25 10:16	01/17/25 14:57	1
delta-BHC	0.0000050	U	0.000020	0.0000050	mg/L		01/17/25 10:16	01/17/25 14:57	1
Dieldrin	0.0000030	U	0.000020	0.0000030	mg/L		01/17/25 10:16	01/17/25 14:57	1
Dieldrin	0.0000030	U	0.000020	0.0000030	mg/L		01/17/25 10:16	01/17/25 14:57	1
Endosulfan I	0.0000020	U	0.000020	0.0000020	mg/L		01/17/25 10:16	01/17/25 14:57	1
Endosulfan I	0.0000020	U	0.000020	0.0000020	mg/L		01/17/25 10:16	01/17/25 14:57	1
Endosulfan II	0.0000040	U	0.000020	0.0000040	mg/L		01/17/25 10:16	01/17/25 14:57	1
Endosulfan II	0.0000040	U	0.000020	0.0000040	mg/L		01/17/25 10:16	01/17/25 14:57	1
Endosulfan sulfate	0.0000060	U	0.000020	0.0000060	mg/L		01/17/25 10:16	01/17/25 14:57	1
Endosulfan sulfate	0.0000060	U	0.000020	0.0000060	mg/L		01/17/25 10:16	01/17/25 14:57	1
Endrin	0.0000040	U	0.000020	0.0000040	mg/L		01/17/25 10:16	01/17/25 14:57	1
Endrin	0.0000040	U	0.000020	0.0000040	mg/L		01/17/25 10:16	01/17/25 14:57	1
Endrin aldehyde	0.0000080	U	0.000020	0.0000080	mg/L		01/17/25 10:16	01/17/25 14:57	1
Endrin aldehyde	0.0000080	U	0.000020	0.0000080	mg/L		01/17/25 10:16	01/17/25 14:57	1
Endrin ketone	0.0000080	U	0.000020	0.0000080	mg/L		01/17/25 10:16	01/17/25 14:57	1
Endrin ketone	0.0000080	U	0.000020	0.0000080	mg/L		01/17/25 10:16	01/17/25 14:57	1
gamma-BHC (Lindane)	0.000012	U	0.000020	0.000012	mg/L		01/17/25 10:16	01/17/25 14:57	1
gamma-BHC (Lindane)	0.000012	U	0.000020	0.000012	mg/L		01/17/25 10:16	01/17/25 14:57	1
Heptachlor	0.0000030	U	0.000020	0.0000030	mg/L		01/17/25 10:16	01/17/25 14:57	1
Heptachlor	0.0000030	U	0.000020	0.0000030	mg/L		01/17/25 10:16	01/17/25 14:57	1
Heptachlor epoxide	0.0000050	U	0.000020	0.0000050	mg/L		01/17/25 10:16	01/17/25 14:57	1
Heptachlor epoxide	0.0000050	U	0.000020	0.0000050	mg/L		01/17/25 10:16	01/17/25 14:57	1
Methoxychlor	0.0000040	U	0.000020	0.0000040	mg/L		01/17/25 10:16	01/17/25 14:57	1
Methoxychlor	0.0000040	U	0.000020	0.0000040	mg/L		01/17/25 10:16	01/17/25 14:57	1
Toxaphene	0.00011	U	0.00050	0.00011	mg/L		01/17/25 10:16	01/17/25 14:57	1
Toxaphene	0.00011	U	0.00050	0.00011	mg/L		01/17/25 10:16	01/17/25 14:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	87		30 - 131	01/17/25 10:16	01/17/25 14:57	1
DCB Decachlorobiphenyl	84		30 - 131	01/17/25 10:16	01/17/25 14:57	1
Tetrachloro-m-xylene	87		34 - 120	01/17/25 10:16	01/17/25 14:57	1
Tetrachloro-m-xylene	84		34 - 120	01/17/25 10:16	01/17/25 14:57	1

Eurofins Edison

QC Sample Results

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

Job ID: 460-318705-1

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

Lab Sample ID: LCS 460-1017027/2-A

Matrix: Water

Analysis Batch: 1017004

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1017027

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aldrin	0.000800	0.000665		mg/L		83	67 - 129
Aldrin	0.000800	0.000667		mg/L		83	67 - 129
alpha-BHC	0.000800	0.000698		mg/L		87	70 - 125
alpha-BHC	0.000800	0.000695		mg/L		87	70 - 125
beta-BHC	0.000800	0.000678		mg/L		85	70 - 129
beta-BHC	0.000800	0.000685		mg/L		86	70 - 129
4,4'-DDD	0.000800	0.000688		mg/L		86	69 - 138
4,4'-DDD	0.000800	0.000681		mg/L		85	69 - 138
4,4'-DDE	0.000800	0.000696		mg/L		87	68 - 130
4,4'-DDE	0.000800	0.000685		mg/L		86	68 - 130
4,4'-DDT	0.000800	0.000706		mg/L		88	57 - 1505
4,4'-DDT	0.000800	0.000712		mg/L		89	57 - 1505
delta-BHC	0.000800	0.000681		mg/L		85	44 - 120
delta-BHC	0.000800	0.000684		mg/L		85	44 - 120
Dieldrin	0.000800	0.000690		mg/L		86	72 - 128
Dieldrin	0.000800	0.000683		mg/L		85	72 - 128
Endosulfan I	0.000800	0.000696		mg/L		87	73 - 127
Endosulfan I	0.000800	0.000685		mg/L		86	73 - 127
Endosulfan II	0.000800	0.000741		mg/L		93	73 - 134
Endosulfan II	0.000800	0.000724		mg/L		90	73 - 134
Endosulfan sulfate	0.000800	0.000659		mg/L		82	61 - 128
Endosulfan sulfate	0.000800	0.000657		mg/L		82	61 - 128
Endrin	0.000800	0.000679		mg/L		85	64 - 138
Endrin	0.000800	0.000688		mg/L		86	64 - 138
Endrin aldehyde	0.000800	0.000695		mg/L		87	74 - 133
Endrin aldehyde	0.000800	0.000681		mg/L		85	74 - 133
Endrin ketone	0.000800	0.000679		mg/L		85	56 - 150
Endrin ketone	0.000800	0.000662		mg/L		83	56 - 150
gamma-BHC (Lindane)	0.000800	0.000695		mg/L		87	73 - 132
gamma-BHC (Lindane)	0.000800	0.000692		mg/L		86	73 - 132
Heptachlor	0.000800	0.000694		mg/L		87	70 - 134
Heptachlor	0.000800	0.000708		mg/L		88	70 - 134
Heptachlor epoxide	0.000800	0.000691		mg/L		86	75 - 126
Heptachlor epoxide	0.000800	0.000694		mg/L		87	75 - 126
Methoxychlor	0.000800	0.000708		mg/L		89	49 - 150
Methoxychlor	0.000800	0.000737		mg/L		92	49 - 150

Surrogate	LCS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	75		30 - 131
DCB Decachlorobiphenyl	75		30 - 131
Tetrachloro-m-xylene	77		34 - 120
Tetrachloro-m-xylene	77		34 - 120

Eurofins Edison

QC Sample Results

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

Job ID: 460-318705-1

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

Lab Sample ID: LCSD 460-1017027/3-A

Matrix: Water

Analysis Batch: 1017004

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1017027

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aldrin	0.000800	0.000658		mg/L		82	67 - 129	1	30
Aldrin	0.000800	0.000656		mg/L		82	67 - 129	2	30
alpha-BHC	0.000800	0.000680		mg/L		85	70 - 125	2	30
alpha-BHC	0.000800	0.000673		mg/L		84	70 - 125	3	30
beta-BHC	0.000800	0.000659		mg/L		82	70 - 129	4	30
beta-BHC	0.000800	0.000664		mg/L		83	70 - 129	3	30
4,4'-DDD	0.000800	0.000685		mg/L		86	69 - 138	1	30
4,4'-DDD	0.000800	0.000685		mg/L		86	69 - 138	1	30
4,4'-DDE	0.000800	0.000701		mg/L		88	68 - 130	2	30
4,4'-DDE	0.000800	0.000680		mg/L		85	68 - 130	1	30
4,4'-DDT	0.000800	0.000686		mg/L		86	57 - 1505	4	30
4,4'-DDT	0.000800	0.000715		mg/L		89	57 - 1505	0	30
delta-BHC	0.000800	0.000665		mg/L		83	44 - 120	3	30
delta-BHC	0.000800	0.000666		mg/L		83	44 - 120	3	30
Dieldrin	0.000800	0.000689		mg/L		86	72 - 128	1	30
Dieldrin	0.000800	0.000683		mg/L		85	72 - 128	0	30
Endosulfan I	0.000800	0.000697		mg/L		87	73 - 127	2	30
Endosulfan I	0.000800	0.000688		mg/L		86	73 - 127	0	30
Endosulfan II	0.000800	0.000719		mg/L		90	73 - 134	1	30
Endosulfan II	0.000800	0.000729		mg/L		91	73 - 134	1	30
Endosulfan sulfate	0.000800	0.000665		mg/L		83	61 - 128	1	30
Endosulfan sulfate	0.000800	0.000670		mg/L		84	61 - 128	2	30
Endrin	0.000800	0.000663		mg/L		83	64 - 138	4	30
Endrin	0.000800	0.000691		mg/L		86	64 - 138	0	30
Endrin aldehyde	0.000800	0.000695		mg/L		87	74 - 133	2	30
Endrin aldehyde	0.000800	0.000694		mg/L		87	74 - 133	2	30
Endrin ketone	0.000800	0.000694		mg/L		87	56 - 150	5	30
Endrin ketone	0.000800	0.000674		mg/L		84	56 - 150	2	30
gamma-BHC (Lindane)	0.000800	0.000675		mg/L		84	73 - 132	2	30
gamma-BHC (Lindane)	0.000800	0.000673		mg/L		84	73 - 132	3	30
Heptachlor	0.000800	0.000676		mg/L		85	70 - 134	5	30
Heptachlor	0.000800	0.000692		mg/L		86	70 - 134	2	30
Heptachlor epoxide	0.000800	0.000689		mg/L		86	75 - 126	1	30
Heptachlor epoxide	0.000800	0.000687		mg/L		86	75 - 126	1	30
Methoxychlor	0.000800	0.000695		mg/L		87	49 - 150	6	30
Methoxychlor	0.000800	0.000744		mg/L		93	49 - 150	1	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	73		30 - 131
DCB Decachlorobiphenyl	73		30 - 131
Tetrachloro-m-xylene	74		34 - 120
Tetrachloro-m-xylene	73		34 - 120

Eurofins Edison

QC Sample Results

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

Job ID: 460-318705-1

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

Lab Sample ID: MB 460-1016478/1-A

Matrix: Solid

Analysis Batch: 1016493

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1016478

Analyte	MB Result	MB 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	01/14/25 22:24	1
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg		01/14/25 17:06	01/14/25 22:24	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg		01/14/25 17:06	01/14/25 22:24	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg		01/14/25 17:06	01/14/25 22:24	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg		01/14/25 17:06	01/14/25 22:24	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg		01/14/25 17:06	01/14/25 22:24	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg		01/14/25 17:06	01/14/25 22:24	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg		01/14/25 17:06	01/14/25 22:24	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg		01/14/25 17:06	01/14/25 22:24	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg		01/14/25 17:06	01/14/25 22:24	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg		01/14/25 17:06	01/14/25 22:24	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg		01/14/25 17:06	01/14/25 22:24	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg		01/14/25 17:06	01/14/25 22:24	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg		01/14/25 17:06	01/14/25 22:24	1
PCB-1262	0.018	U	0.067	0.018	mg/Kg		01/14/25 17:06	01/14/25 22:24	1
PCB-1262	0.018	U	0.067	0.018	mg/Kg		01/14/25 17:06	01/14/25 22:24	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg		01/14/25 17:06	01/14/25 22:24	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg		01/14/25 17:06	01/14/25 22:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	98		30 - 150	01/14/25 17:06	01/14/25 22:24	1
DCB Decachlorobiphenyl	100		30 - 150	01/14/25 17:06	01/14/25 22:24	1
Tetrachloro-m-xylene	82		30 - 150	01/14/25 17:06	01/14/25 22:24	1
Tetrachloro-m-xylene	85		30 - 150	01/14/25 17:06	01/14/25 22:24	1

Lab Sample ID: LCS 460-1016478/2-A

Matrix: Solid

Analysis Batch: 1016493

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1016478

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor 1016	0.333	0.331		mg/Kg		99	40 - 140
Aroclor 1016	0.333	0.325		mg/Kg		97	40 - 140
Aroclor 1260	0.333	0.344		mg/Kg		103	40 - 140
Aroclor 1260	0.333	0.351		mg/Kg		105	40 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	100		30 - 150
DCB Decachlorobiphenyl	99		30 - 150
Tetrachloro-m-xylene	85		30 - 150
Tetrachloro-m-xylene	86		30 - 150

Lab Sample ID: LCSD 460-1016478/3-A

Matrix: Solid

Analysis Batch: 1016493

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1016478

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016	0.333	0.302		mg/Kg		91	40 - 140	9	30
Aroclor 1016	0.333	0.304		mg/Kg		91	40 - 140	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: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 460-1016478/3-A

Matrix: Solid

Analysis Batch: 1016493

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1016478

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1260	0.333	0.322		mg/Kg		97	40 - 140	7	30
Aroclor 1260	0.333	0.327		mg/Kg		98	40 - 140	7	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	93		30 - 150
DCB Decachlorobiphenyl	90		30 - 150
Tetrachloro-m-xylene	79		30 - 150
Tetrachloro-m-xylene	80		30 - 150

Lab Sample ID: MB 460-1016728/1-A

Matrix: Water

Analysis Batch: 1016758

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1016728

Analyte	MB Result	MB 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 07:21	1
Aroclor 1016	0.00012	U	0.00040	0.00012	mg/L		01/15/25 19:51	01/16/25 07:21	1
Aroclor 1221	0.00012	U	0.00040	0.00012	mg/L		01/15/25 19:51	01/16/25 07:21	1
Aroclor 1221	0.00012	U	0.00040	0.00012	mg/L		01/15/25 19:51	01/16/25 07:21	1
Aroclor 1232	0.00012	U	0.00040	0.00012	mg/L		01/15/25 19:51	01/16/25 07:21	1
Aroclor 1232	0.00012	U	0.00040	0.00012	mg/L		01/15/25 19:51	01/16/25 07:21	1
Aroclor 1242	0.00012	U	0.00040	0.00012	mg/L		01/15/25 19:51	01/16/25 07:21	1
Aroclor 1242	0.00012	U	0.00040	0.00012	mg/L		01/15/25 19:51	01/16/25 07:21	1
Aroclor 1248	0.00012	U	0.00040	0.00012	mg/L		01/15/25 19:51	01/16/25 07:21	1
Aroclor 1248	0.00012	U	0.00040	0.00012	mg/L		01/15/25 19:51	01/16/25 07:21	1
Aroclor 1254	0.00011	U	0.00040	0.00011	mg/L		01/15/25 19:51	01/16/25 07:21	1
Aroclor 1254	0.00011	U	0.00040	0.00011	mg/L		01/15/25 19:51	01/16/25 07:21	1
Aroclor 1260	0.00011	U	0.00040	0.00011	mg/L		01/15/25 19:51	01/16/25 07:21	1
Aroclor 1260	0.00011	U	0.00040	0.00011	mg/L		01/15/25 19:51	01/16/25 07:21	1
PCB-1262	0.00011	U	0.00040	0.00011	mg/L		01/15/25 19:51	01/16/25 07:21	1
PCB-1262	0.00011	U	0.00040	0.00011	mg/L		01/15/25 19:51	01/16/25 07:21	1
Aroclor 1268	0.00011	U	0.00040	0.00011	mg/L		01/15/25 19:51	01/16/25 07:21	1
Aroclor 1268	0.00011	U	0.00040	0.00011	mg/L		01/15/25 19:51	01/16/25 07:21	1
Polychlorinated biphenyls, Total	0.00012	U	0.00040	0.00012	mg/L		01/15/25 19:51	01/16/25 07:21	1
Polychlorinated biphenyls, Total	0.00012	U	0.00040	0.00012	mg/L		01/15/25 19:51	01/16/25 07:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	62		18 - 145	01/15/25 19:51	01/16/25 07:21	1
DCB Decachlorobiphenyl	61		18 - 145	01/15/25 19:51	01/16/25 07:21	1
Tetrachloro-m-xylene	79		21 - 124	01/15/25 19:51	01/16/25 07:21	1
Tetrachloro-m-xylene	78		21 - 124	01/15/25 19:51	01/16/25 07:21	1

Lab Sample ID: LCS 460-1016728/2-A

Matrix: Water

Analysis Batch: 1016758

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1016728

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor 1016	0.00400	0.00327		mg/L		82	42 - 120
Aroclor 1016	0.00400	0.00334		mg/L		84	42 - 120

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QC Sample Results

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

Job ID: 460-318705-1

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

Lab Sample ID: LCS 460-1016728/2-A

Matrix: Water

Analysis Batch: 1016758

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1016728

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor 1260	0.00400	0.00338		mg/L		84	42 - 126
Aroclor 1260	0.00400	0.00332		mg/L		83	42 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	69		18 - 145
DCB Decachlorobiphenyl	65		18 - 145
Tetrachloro-m-xylene	85		21 - 124
Tetrachloro-m-xylene	86		21 - 124

Lab Sample ID: LCSD 460-1016728/3-A

Matrix: Water

Analysis Batch: 1016758

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1016728

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016	0.00400	0.00332		mg/L		83	42 - 120	2	30
Aroclor 1016	0.00400	0.00342		mg/L		86	42 - 120	2	30
Aroclor 1260	0.00400	0.00335		mg/L		84	42 - 126	1	30
Aroclor 1260	0.00400	0.00340		mg/L		85	42 - 126	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	66		18 - 145
DCB Decachlorobiphenyl	66		18 - 145
Tetrachloro-m-xylene	86		21 - 124
Tetrachloro-m-xylene	87		21 - 124

Lab Sample ID: MB 460-1016942/1-A

Matrix: Water

Analysis Batch: 1016461

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1016942

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00012	U	0.00040	0.00012	mg/L		01/16/25 19:34	01/17/25 12:31	1
Aroclor 1221	0.00012	U	0.00040	0.00012	mg/L		01/16/25 19:34	01/17/25 12:31	1
Aroclor 1232	0.00012	U	0.00040	0.00012	mg/L		01/16/25 19:34	01/17/25 12:31	1
Aroclor 1242	0.00012	U	0.00040	0.00012	mg/L		01/16/25 19:34	01/17/25 12:31	1
Aroclor 1248	0.00012	U	0.00040	0.00012	mg/L		01/16/25 19:34	01/17/25 12:31	1
Aroclor 1254	0.00011	U	0.00040	0.00011	mg/L		01/16/25 19:34	01/17/25 12:31	1
Aroclor 1260	0.00011	U	0.00040	0.00011	mg/L		01/16/25 19:34	01/17/25 12:31	1
PCB-1262	0.00011	U	0.00040	0.00011	mg/L		01/16/25 19:34	01/17/25 12:31	1
Aroclor 1268	0.00011	U	0.00040	0.00011	mg/L		01/16/25 19:34	01/17/25 12:31	1
Polychlorinated biphenyls, Total	0.00012	U	0.00040	0.00012	mg/L		01/16/25 19:34	01/17/25 12:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	48		18 - 145	01/16/25 19:34	01/17/25 12:31	1
DCB Decachlorobiphenyl	63		18 - 145	01/16/25 19:34	01/17/25 12:31	1
Tetrachloro-m-xylene	63		21 - 124	01/16/25 19:34	01/17/25 12:31	1
Tetrachloro-m-xylene	80		21 - 124	01/16/25 19:34	01/17/25 12:31	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: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 460-1016942/2-A
Matrix: Water
Analysis Batch: 1016461

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1016942

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor 1016	0.00400	0.00575	*+	mg/L		144	42 - 120
Aroclor 1260	0.00400	0.00621	*+	mg/L		155	42 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	79		18 - 145
DCB Decachlorobiphenyl	107		18 - 145
Tetrachloro-m-xylene	104		21 - 124
Tetrachloro-m-xylene	146	S1+	21 - 124

Lab Sample ID: LCSD 460-1016942/3-A
Matrix: Water
Analysis Batch: 1016461

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1016942

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016	0.00400	0.00586	*+	mg/L		146	42 - 120	2	30
Aroclor 1260	0.00400	0.00653	*+	mg/L		163	42 - 126	5	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	80		18 - 145
DCB Decachlorobiphenyl	112		18 - 145
Tetrachloro-m-xylene	99		21 - 124
Tetrachloro-m-xylene	151	S1+	21 - 124

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 460-1016885/1-A
Matrix: Water
Analysis Batch: 1017043

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1016885

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.020	U	0.040	0.020	mg/L		01/16/25 13:16	01/17/25 10:15	1
Antimony	0.00076	U	0.0020	0.00076	mg/L		01/16/25 13:16	01/17/25 10:15	1
Arsenic	0.00089	U	0.0020	0.00089	mg/L		01/16/25 13:16	01/17/25 10:15	1
Barium	0.00091	U	0.0040	0.00091	mg/L		01/16/25 13:16	01/17/25 10:15	1
Beryllium	0.00013	U	0.00080	0.00013	mg/L		01/16/25 13:16	01/17/25 10:15	1
Cadmium	0.00039	U	0.0020	0.00039	mg/L		01/16/25 13:16	01/17/25 10:15	1
Calcium	0.054	U	0.50	0.054	mg/L		01/16/25 13:16	01/17/25 10:15	1
Chromium	0.0025	U	0.0040	0.0025	mg/L		01/16/25 13:16	01/17/25 10:15	1
Cobalt	0.00071	U	0.0040	0.00071	mg/L		01/16/25 13:16	01/17/25 10:15	1
Copper	0.0025	U	0.0040	0.0025	mg/L		01/16/25 13:16	01/17/25 10:15	1
Iron	0.058	U	0.12	0.058	mg/L		01/16/25 13:16	01/17/25 10:15	1
Lead	0.00084	U	0.0012	0.00084	mg/L		01/16/25 13:16	01/17/25 10:15	1
Magnesium	0.047	U	0.20	0.047	mg/L		01/16/25 13:16	01/17/25 10:15	1
Manganese	0.0015	U	0.0080	0.0015	mg/L		01/16/25 13:16	01/17/25 10:15	1
Nickel	0.00091	U	0.0040	0.00091	mg/L		01/16/25 13:16	01/17/25 10:15	1
Potassium	0.11	U	0.20	0.11	mg/L		01/16/25 13:16	01/17/25 10:15	1
Selenium	0.00059	U	0.0025	0.00059	mg/L		01/16/25 13:16	01/17/25 10:15	1
Silver	0.00029	U	0.0020	0.00029	mg/L		01/16/25 13:16	01/17/25 10:15	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: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 460-1016885/1-A

Matrix: Water

Analysis Batch: 1017043

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1016885

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	0.22	U	0.50	0.22	mg/L		01/16/25 13:16	01/17/25 10:15	1
Thallium	0.00021	U	0.00080	0.00021	mg/L		01/16/25 13:16	01/17/25 10:15	1
Vanadium	0.00068	U	0.0040	0.00068	mg/L		01/16/25 13:16	01/17/25 10:15	1
Zinc	0.0065	U	0.016	0.0065	mg/L		01/16/25 13:16	01/17/25 10:15	1

Lab Sample ID: LCS 460-1016885/2-A

Matrix: Water

Analysis Batch: 1017043

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1016885

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2.50	2.48		mg/L		99	80 - 120
Antimony	0.0250	0.0246		mg/L		99	80 - 120
Arsenic	0.0500	0.0503		mg/L		101	80 - 120
Barium	0.0500	0.0524		mg/L		105	80 - 120
Beryllium	0.0250	0.0251		mg/L		100	80 - 120
Cadmium	0.0250	0.0247		mg/L		99	80 - 120
Calcium	2.50	2.51		mg/L		101	80 - 120
Chromium	0.0500	0.0501		mg/L		100	80 - 120
Cobalt	0.0250	0.0253		mg/L		101	80 - 120
Copper	0.0500	0.0521		mg/L		104	80 - 120
Iron	2.50	2.53		mg/L		101	80 - 120
Lead	0.0250	0.0253		mg/L		101	80 - 120
Magnesium	2.50	2.45		mg/L		98	80 - 120
Manganese	0.250	0.246		mg/L		98	80 - 120
Nickel	0.0500	0.0494		mg/L		99	80 - 120
Potassium	2.50	2.45		mg/L		98	80 - 120
Selenium	0.0500	0.0493		mg/L		99	80 - 120
Silver	0.0250	0.0261		mg/L		105	80 - 120
Sodium	2.50	2.57		mg/L		103	80 - 120
Thallium	0.0200	0.0204		mg/L		102	80 - 120
Vanadium	0.0500	0.0487		mg/L		97	80 - 120
Zinc	0.250	0.243		mg/L		97	80 - 120

Lab Sample ID: MB 460-1016985/1-A

Matrix: Solid

Analysis Batch: 1017043

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1016985

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5.5	U	20.0	5.5	mg/Kg		01/17/25 07:23	01/17/25 16:22	1
Antimony	0.15	U	1.0	0.15	mg/Kg		01/17/25 07:23	01/17/25 16:22	1
Arsenic	0.10	U	1.0	0.10	mg/Kg		01/17/25 07:23	01/17/25 16:22	1
Barium	0.15	U	2.0	0.15	mg/Kg		01/17/25 07:23	01/17/25 16:22	1
Beryllium	0.057	U	0.40	0.057	mg/Kg		01/17/25 07:23	01/17/25 16:22	1
Cadmium	0.11	U	1.0	0.11	mg/Kg		01/17/25 07:23	01/17/25 16:22	1
Calcium	40.7	U	100	40.7	mg/Kg		01/17/25 07:23	01/17/25 16:22	1
Chromium	0.91	U	2.0	0.91	mg/Kg		01/17/25 07:23	01/17/25 16:22	1
Cobalt	0.15	U	2.0	0.15	mg/Kg		01/17/25 07:23	01/17/25 16:22	1
Copper	0.37	U	2.0	0.37	mg/Kg		01/17/25 07:23	01/17/25 16:22	1
Iron	20.2	U	60.0	20.2	mg/Kg		01/17/25 07:23	01/17/25 16:22	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: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 460-1016985/1-A

Matrix: Solid

Analysis Batch: 1017043

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1016985

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.20	U	0.60	0.20	mg/Kg		01/17/25 07:23	01/17/25 16:22	1
Magnesium	10.2	U	100	10.2	mg/Kg		01/17/25 07:23	01/17/25 16:22	1
Manganese	0.40	U	4.0	0.40	mg/Kg		01/17/25 07:23	01/17/25 16:22	1
Nickel	0.47	U	2.0	0.47	mg/Kg		01/17/25 07:23	01/17/25 16:22	1
Potassium	16.2	U	100	16.2	mg/Kg		01/17/25 07:23	01/17/25 16:22	1
Selenium	0.13	U	1.3	0.13	mg/Kg		01/17/25 07:23	01/17/25 16:22	1
Silver	0.089	U	0.40	0.089	mg/Kg		01/17/25 07:23	01/17/25 16:22	1
Sodium	45.7	U	100	45.7	mg/Kg		01/17/25 07:23	01/17/25 16:22	1
Thallium	0.041	U	0.40	0.041	mg/Kg		01/17/25 07:23	01/17/25 16:22	1
Vanadium	0.21	U	2.0	0.21	mg/Kg		01/17/25 07:23	01/17/25 16:22	1
Zinc	3.1	U	8.0	3.1	mg/Kg		01/17/25 07:23	01/17/25 16:22	1

Lab Sample ID: LCSSRM 460-1016985/2-A ^3

Matrix: Solid

Analysis Batch: 1017043

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1016985

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5940	4771		mg/Kg		80.3	46.1 - 153.9
Antimony	121	73.32		mg/Kg		60.6	0.1 - 200.8
Arsenic	242	239.2		mg/Kg		98.8	81.8 - 118.6
Barium	295	345.5		mg/Kg		117.1	81.7 - 118.3
Beryllium	160	159.7		mg/Kg		99.8	82.5 - 117.5
Cadmium	84.3	86.87		mg/Kg		103.0	82.2 - 117.8
Calcium	5270	5133		mg/Kg		97.4	82.5 - 117.5
Chromium	213	213.4		mg/Kg		100.2	81.2 - 119.2
Cobalt	137	139.5		mg/Kg		101.8	83.2 - 117.5
Copper	195	198.8		mg/Kg		102.0	83.1 - 116.9
Iron	6650	6005		mg/Kg		90.3	58.6 - 141.5
Lead	194	196.7		mg/Kg		101.4	82.0 - 118.6
Magnesium	1860	1613		mg/Kg		86.7	75.3 - 124.2
Manganese	264	279.9		mg/Kg		106.0	80.7 - 118.9
Nickel	298	288.7		mg/Kg		96.9	82.2 - 117.8
Potassium	2010	1774		mg/Kg		88.3	70.6 - 129.4
Selenium	272	277.6		mg/Kg		102.1	80.1 - 119.5
Silver	76.7	78.23		mg/Kg		102.0	79.5 - 120.5

Eurofins Edison

QC Sample Results

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

Job ID: 460-318705-1

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

Lab Sample ID: LCSSRM 460-1016985/2-A ^3

Matrix: Solid

Analysis Batch: 1017043

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1016985

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	406	379.3		mg/Kg		93.4	74.9 - 124.9
Thallium	108	123.3		mg/Kg		114.1	80.0 - 119.4
Vanadium	169	164.8		mg/Kg		97.5	78.1 - 122.5
Zinc	236	223.4		mg/Kg		94.6	80.1 - 120.3

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 460-1016640/1-A

Matrix: Water

Analysis Batch: 1016691

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1016640

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000091	U	0.00020	0.000091	mg/L		01/15/25 11:07	01/15/25 13:37	1

Lab Sample ID: LCS 460-1016640/2-A

Matrix: Water

Analysis Batch: 1016691

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1016640

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00100	0.00103		mg/L		103	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 460-1016527/10-A

Matrix: Solid

Analysis Batch: 1016585

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1016527

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0080	U	0.017	0.0080	mg/Kg		01/15/25 00:42	01/15/25 04:28	1

Lab Sample ID: LCSSRM 460-1016527/11-A ^40

Matrix: Solid

Analysis Batch: 1016585

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1016527

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	22.8	22.98		mg/Kg		100.8	70.6 - 129.4

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

Lab Sample ID: MB 460-1016704/13-A

Matrix: Water

Analysis Batch: 1016738

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1016704

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0040	U	0.010	0.0040	mg/L		01/15/25 17:46	01/15/25 21:12	1

Eurofins Edison

QC Sample Results

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

Job ID: 460-318705-1

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

Lab Sample ID: LCS 460-1016704/14-A
Matrix: Water
Analysis Batch: 1016738

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1016704

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.0992		mg/L		99	85 - 115

Lab Sample ID: MRL 460-1016704/12-A
Matrix: Water
Analysis Batch: 1016738

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1016704

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.0100	0.0105		mg/L		105	50 - 150

Lab Sample ID: 460-318705-5 MS
Matrix: Water
Analysis Batch: 1016738

Client Sample ID: TW-1
Prep Type: Total/NA
Prep Batch: 1016704

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.0040	U	0.200	0.190		mg/L		95	90 - 110

Lab Sample ID: 460-318705-5 MSD
Matrix: Water
Analysis Batch: 1016738

Client Sample ID: TW-1
Prep Type: Total/NA
Prep Batch: 1016704

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	0.0040	U	0.200	0.201		mg/L		101	90 - 110	6	35

Lab Sample ID: MB 460-1016705/1-A
Matrix: Solid
Analysis Batch: 1016738

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1016705

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0055	U	0.010	0.0055	mg/Kg		01/15/25 17:48	01/15/25 21:44	1

Lab Sample ID: LCSSRM 460-1016705/2-A ^20
Matrix: Solid
Analysis Batch: 1016738

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1016705

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	172	84.96		mg/Kg		49.4	14.9 - 114.5

QC Association Summary

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

Job ID: 460-318705-1

GC/MS VOA

Prep Batch: 1016506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-318705-1	TB-1	Total/NA	Solid	5035	
460-318705-2	TB-2	Total/NA	Solid	5035	
460-318705-3	TB-3	Total/NA	Solid	5035	
460-318705-4	TB-4	Total/NA	Solid	5035	
LB3 460-1016506/1-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 1016782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-318705-5	TW-1	Total/NA	Water	8260D	
460-318705-6	TW-2	Total/NA	Water	8260D	
MB 460-1016782/10	Method Blank	Total/NA	Water	8260D	
LCS 460-1016782/6	Lab Control Sample	Total/NA	Water	8260D	
460-318705-6 MS	TW-2	Total/NA	Water	8260D	
460-318705-6 MSD	TW-2	Total/NA	Water	8260D	

Analysis Batch: 1016958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB3 460-1016506/1-A	Method Blank	Total/NA	Solid	8260D	1016506
MB 460-1016958/19	Method Blank	Total/NA	Solid	8260D	
LCS 460-1016958/16	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-1016958/17	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 1017079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-318705-1	TB-1	Total/NA	Solid	8260D	1016506
460-318705-2	TB-2	Total/NA	Solid	8260D	1016506
460-318705-3	TB-3	Total/NA	Solid	8260D	1016506
460-318705-4	TB-4	Total/NA	Solid	8260D	1016506
MB 460-1017079/7	Method Blank	Total/NA	Solid	8260D	
LCS 460-1017079/2	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-1017079/3	Lab Control Sample Dup	Total/NA	Solid	8260D	

GC/MS Semi VOA

Prep Batch: 1016420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-318705-5	TW-1	Total/NA	Water	3510C	
460-318705-6	TW-2	Total/NA	Water	3510C	
MB 460-1016420/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-1016420/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-1016420/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 1016492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 460-1016420/1-A	Method Blank	Total/NA	Water	8270E	1016420
LCS 460-1016420/2-A	Lab Control Sample	Total/NA	Water	8270E	1016420
LCSD 460-1016420/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	1016420

Analysis Batch: 1016721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-318705-5	TW-1	Total/NA	Water	8270E	1016420

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QC Association Summary

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

Job ID: 460-318705-1

GC/MS Semi VOA (Continued)

Analysis Batch: 1016721 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-318705-6	TW-2	Total/NA	Water	8270E	1016420

Prep Batch: 1016733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-318705-1	TB-1	Total/NA	Solid	3546	
460-318705-2	TB-2	Total/NA	Solid	3546	
460-318705-3	TB-3	Total/NA	Solid	3546	
460-318705-4	TB-4	Total/NA	Solid	3546	
MB 460-1016733/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1016733/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1016733/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 1016768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-318705-1	TB-1	Total/NA	Solid	8270E	1016733
460-318705-2	TB-2	Total/NA	Solid	8270E	1016733
460-318705-3	TB-3	Total/NA	Solid	8270E	1016733
460-318705-4	TB-4	Total/NA	Solid	8270E	1016733
MB 460-1016733/1-A	Method Blank	Total/NA	Solid	8270E	1016733
LCS 460-1016733/2-A	Lab Control Sample	Total/NA	Solid	8270E	1016733
LCSD 460-1016733/3-A	Lab Control Sample Dup	Total/NA	Solid	8270E	1016733

GC Semi VOA

Analysis Batch: 1016461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 460-1016942/1-A	Method Blank	Total/NA	Water	8082A	1016942
LCS 460-1016942/2-A	Lab Control Sample	Total/NA	Water	8082A	1016942
LCSD 460-1016942/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	1016942

Prep Batch: 1016478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-318705-1	TB-1	Total/NA	Solid	3546	
460-318705-2	TB-2	Total/NA	Solid	3546	
460-318705-3	TB-3	Total/NA	Solid	3546	
460-318705-4	TB-4	Total/NA	Solid	3546	
MB 460-1016478/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1016478/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1016478/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Prep Batch: 1016479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-318705-1	TB-1	Total/NA	Solid	3546	
460-318705-2	TB-2	Total/NA	Solid	3546	
460-318705-3	TB-3	Total/NA	Solid	3546	
460-318705-4	TB-4	Total/NA	Solid	3546	
MB 460-1016479/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1016479/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1016479/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

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QC Association Summary

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

Job ID: 460-318705-1

GC Semi VOA

Analysis Batch: 1016493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-318705-1	TB-1	Total/NA	Solid	8082A	1016478
460-318705-2	TB-2	Total/NA	Solid	8082A	1016478
460-318705-3	TB-3	Total/NA	Solid	8082A	1016478
460-318705-4	TB-4	Total/NA	Solid	8082A	1016478
MB 460-1016478/1-A	Method Blank	Total/NA	Solid	8082A	1016478
LCS 460-1016478/2-A	Lab Control Sample	Total/NA	Solid	8082A	1016478
LCSD 460-1016478/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	1016478

Analysis Batch: 1016538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-318705-1	TB-1	Total/NA	Solid	8081B	1016479
460-318705-2	TB-2	Total/NA	Solid	8081B	1016479
460-318705-3	TB-3	Total/NA	Solid	8081B	1016479
460-318705-4	TB-4	Total/NA	Solid	8081B	1016479
MB 460-1016479/1-A	Method Blank	Total/NA	Solid	8081B	1016479
LCS 460-1016479/2-A	Lab Control Sample	Total/NA	Solid	8081B	1016479
LCSD 460-1016479/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	1016479

Prep Batch: 1016728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-318705-5	TW-1	Total/NA	Water	3510C	
MB 460-1016728/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-1016728/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-1016728/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 1016730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-318705-5	TW-1	Total/NA	Water	3510C	
MB 460-1016730/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-1016730/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-1016730/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 1016754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-318705-5	TW-1	Total/NA	Water	8081B	1016730
MB 460-1016730/1-A	Method Blank	Total/NA	Water	8081B	1016730
LCS 460-1016730/2-A	Lab Control Sample	Total/NA	Water	8081B	1016730
LCSD 460-1016730/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	1016730

Analysis Batch: 1016758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-318705-5	TW-1	Total/NA	Water	8082A	1016728
MB 460-1016728/1-A	Method Blank	Total/NA	Water	8082A	1016728
LCS 460-1016728/2-A	Lab Control Sample	Total/NA	Water	8082A	1016728
LCSD 460-1016728/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	1016728

Prep Batch: 1016942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-318705-6	TW-2	Total/NA	Water	3510C	
MB 460-1016942/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-1016942/2-A	Lab Control Sample	Total/NA	Water	3510C	

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QC Association Summary

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

Job ID: 460-318705-1

GC Semi VOA (Continued)

Prep Batch: 1016942 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 460-1016942/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 1017004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-318705-6	TW-2	Total/NA	Water	8081B	1017027
MB 460-1017027/1-A	Method Blank	Total/NA	Water	8081B	1017027
LCS 460-1017027/2-A	Lab Control Sample	Total/NA	Water	8081B	1017027
LCSD 460-1017027/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	1017027

Analysis Batch: 1017013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-318705-6	TW-2	Total/NA	Water	8082A	1016942

Prep Batch: 1017027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-318705-6	TW-2	Total/NA	Water	3510C	
MB 460-1017027/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-1017027/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-1017027/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Metals

Prep Batch: 1016527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-318705-1	TB-1	Total/NA	Solid	7471B	
460-318705-2	TB-2	Total/NA	Solid	7471B	
460-318705-3	TB-3	Total/NA	Solid	7471B	
460-318705-4	TB-4	Total/NA	Solid	7471B	
MB 460-1016527/10-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 460-1016527/11-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 1016585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-318705-1	TB-1	Total/NA	Solid	7471B	1016527
460-318705-2	TB-2	Total/NA	Solid	7471B	1016527
460-318705-3	TB-3	Total/NA	Solid	7471B	1016527
460-318705-4	TB-4	Total/NA	Solid	7471B	1016527
MB 460-1016527/10-A	Method Blank	Total/NA	Solid	7471B	1016527
LCSSRM 460-1016527/11-A	Lab Control Sample	Total/NA	Solid	7471B	1016527

Prep Batch: 1016640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-318705-5	TW-1	Total/NA	Water	7470A	
460-318705-6	TW-2	Total/NA	Water	7470A	
MB 460-1016640/1-A	Method Blank	Total/NA	Water	7470A	
LCS 460-1016640/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 1016691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-318705-5	TW-1	Total/NA	Water	7470A	1016640
460-318705-6	TW-2	Total/NA	Water	7470A	1016640

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QC Association Summary

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

Job ID: 460-318705-1

Metals (Continued)

Analysis Batch: 1016691 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 460-1016640/1-A	Method Blank	Total/NA	Water	7470A	1016640
LCS 460-1016640/2-A	Lab Control Sample	Total/NA	Water	7470A	1016640

Prep Batch: 1016885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-318705-5	TW-1	Total/NA	Water	3010A	
460-318705-6	TW-2	Total/NA	Water	3010A	
MB 460-1016885/1-A	Method Blank	Total/NA	Water	3010A	
LCS 460-1016885/2-A	Lab Control Sample	Total/NA	Water	3010A	

Prep Batch: 1016985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-318705-1	TB-1	Total/NA	Solid	3050B	
460-318705-2	TB-2	Total/NA	Solid	3050B	
460-318705-3	TB-3	Total/NA	Solid	3050B	
460-318705-4	TB-4	Total/NA	Solid	3050B	
MB 460-1016985/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 460-1016985/2-A ^	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 1017043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-318705-1	TB-1	Total/NA	Solid	6020B	1016985
460-318705-2	TB-2	Total/NA	Solid	6020B	1016985
460-318705-3	TB-3	Total/NA	Solid	6020B	1016985
460-318705-3	TB-3	Total/NA	Solid	6020B	1016985
460-318705-4	TB-4	Total/NA	Solid	6020B	1016985
460-318705-5	TW-1	Total/NA	Water	6020B	1016885
460-318705-6	TW-2	Total/NA	Water	6020B	1016885
MB 460-1016885/1-A	Method Blank	Total/NA	Water	6020B	1016885
MB 460-1016985/1-A	Method Blank	Total/NA	Solid	6020B	1016985
LCS 460-1016885/2-A	Lab Control Sample	Total/NA	Water	6020B	1016885
LCSSRM 460-1016985/2-A ^	Lab Control Sample	Total/NA	Solid	6020B	1016985

General Chemistry

Analysis Batch: 1016480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-318705-1	TB-1	Total/NA	Solid	Moisture	
460-318705-2	TB-2	Total/NA	Solid	Moisture	
460-318705-3	TB-3	Total/NA	Solid	Moisture	
460-318705-4	TB-4	Total/NA	Solid	Moisture	

Prep Batch: 1016704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-318705-5	TW-1	Total/NA	Water	9012B	
460-318705-6	TW-2	Total/NA	Water	9012B	
MB 460-1016704/13-A	Method Blank	Total/NA	Water	9012B	
LCS 460-1016704/14-A	Lab Control Sample	Total/NA	Water	9012B	
MRL 460-1016704/12-A	Lab Control Sample	Total/NA	Water	9012B	
460-318705-5 MS	TW-1	Total/NA	Water	9012B	
460-318705-5 MSD	TW-1	Total/NA	Water	9012B	

Eurofins Edison

QC Association Summary

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

Job ID: 460-318705-1

General Chemistry

Prep Batch: 1016705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-318705-1	TB-1	Total/NA	Solid	9012B	
460-318705-2	TB-2	Total/NA	Solid	9012B	
460-318705-3	TB-3	Total/NA	Solid	9012B	
460-318705-4	TB-4	Total/NA	Solid	9012B	
MB 460-1016705/1-A	Method Blank	Total/NA	Solid	9012B	
LCSSRM 460-1016705/2-A ^	Lab Control Sample	Total/NA	Solid	9012B	

Analysis Batch: 1016738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-318705-1	TB-1	Total/NA	Solid	9012B	1016705
460-318705-2	TB-2	Total/NA	Solid	9012B	1016705
460-318705-3	TB-3	Total/NA	Solid	9012B	1016705
460-318705-4	TB-4	Total/NA	Solid	9012B	1016705
460-318705-5	TW-1	Total/NA	Water	9012B	1016704
460-318705-6	TW-2	Total/NA	Water	9012B	1016704
MB 460-1016704/13-A	Method Blank	Total/NA	Water	9012B	1016704
MB 460-1016705/1-A	Method Blank	Total/NA	Solid	9012B	1016705
LCS 460-1016704/14-A	Lab Control Sample	Total/NA	Water	9012B	1016704
LCSSRM 460-1016705/2-A ^	Lab Control Sample	Total/NA	Solid	9012B	1016705
MRL 460-1016704/12-A	Lab Control Sample	Total/NA	Water	9012B	1016704
460-318705-5 MS	TW-1	Total/NA	Water	9012B	1016704
460-318705-5 MSD	TW-1	Total/NA	Water	9012B	1016704

Lab Chronicle

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

Job ID: 460-318705-1

Client Sample ID: TB-1

Date Collected: 01/13/25 13:00

Date Received: 01/13/25 19:00

Lab Sample ID: 460-318705-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	1016480	CJC	EET EDI	01/14/25 17:16

Client Sample ID: TB-1

Date Collected: 01/13/25 13:00

Date Received: 01/13/25 19:00

Lab Sample ID: 460-318705-1

Matrix: Solid

Percent Solids: 99.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1016506	YXG	EET EDI	01/14/25 19:15
Total/NA	Analysis	8260D		1	1017079	AAT	EET EDI	01/18/25 01:50
Total/NA	Prep	3546			1016733	GXY	EET EDI	01/15/25 20:16
Total/NA	Analysis	8270E		1	1016768	MDJ	EET EDI	01/16/25 08:03
Total/NA	Prep	3546			1016479	ARA	EET EDI	01/14/25 17:11
Total/NA	Analysis	8081B		1	1016538	FAM	EET EDI	01/15/25 07:06
Total/NA	Prep	3546			1016478	ARA	EET EDI	01/14/25 17:06
Total/NA	Analysis	8082A		1	1016493	AAA	EET EDI	01/15/25 03:21
Total/NA	Prep	3050B			1016985	FBT	EET EDI	01/17/25 07:23
Total/NA	Analysis	6020B		1	1017043	MDC	EET EDI	01/17/25 17:24
Total/NA	Prep	7471B			1016527	TJS	EET EDI	01/15/25 00:42
Total/NA	Analysis	7471B		1	1016585	TJS	EET EDI	01/15/25 05:11
Total/NA	Prep	9012B			1016705	VBG	EET EDI	01/15/25 17:48
Total/NA	Analysis	9012B		1	1016738	VBG	EET EDI	01/15/25 21:57

Client Sample ID: TB-2

Date Collected: 01/13/25 10:30

Date Received: 01/13/25 19:00

Lab Sample ID: 460-318705-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	1016480	CJC	EET EDI	01/14/25 17:16

Client Sample ID: TB-2

Date Collected: 01/13/25 10:30

Date Received: 01/13/25 19:00

Lab Sample ID: 460-318705-2

Matrix: Solid

Percent Solids: 95.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1016506	YXG	EET EDI	01/14/25 19:15
Total/NA	Analysis	8260D		1	1017079	AAT	EET EDI	01/18/25 02:15
Total/NA	Prep	3546			1016733	GXY	EET EDI	01/15/25 20:16
Total/NA	Analysis	8270E		1	1016768	MDJ	EET EDI	01/16/25 07:41
Total/NA	Prep	3546			1016479	ARA	EET EDI	01/14/25 17:11
Total/NA	Analysis	8081B		1	1016538	FAM	EET EDI	01/15/25 07:19
Total/NA	Prep	3546			1016478	ARA	EET EDI	01/14/25 17:06
Total/NA	Analysis	8082A		1	1016493	AAA	EET EDI	01/15/25 03:37
Total/NA	Prep	3050B			1016985	FBT	EET EDI	01/17/25 07:23
Total/NA	Analysis	6020B		1	1017043	MDC	EET EDI	01/17/25 17:27

Eurofins Edison

Lab Chronicle

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

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			1016527	TJS	EET EDI	01/15/25 00:42
Total/NA	Analysis	7471B		1	1016585	TJS	EET EDI	01/15/25 05:13
Total/NA	Prep	9012B			1016705	VBG	EET EDI	01/15/25 17:48
Total/NA	Analysis	9012B		1	1016738	VBG	EET EDI	01/15/25 21:58

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

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	1016480	CJC	EET EDI	01/14/25 17:16

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

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1016506	YXG	EET EDI	01/14/25 19:16
Total/NA	Analysis	8260D		1	1017079	AAT	EET EDI	01/18/25 02:39
Total/NA	Prep	3546			1016733	GXY	EET EDI	01/15/25 20:16
Total/NA	Analysis	8270E		1	1016768	MDJ	EET EDI	01/16/25 08:24
Total/NA	Prep	3546			1016479	ARA	EET EDI	01/14/25 17:11
Total/NA	Analysis	8081B		1	1016538	FAM	EET EDI	01/15/25 07:32
Total/NA	Prep	3546			1016478	ARA	EET EDI	01/14/25 17:06
Total/NA	Analysis	8082A		1	1016493	AAA	EET EDI	01/15/25 03:54
Total/NA	Prep	3050B			1016985	FBT	EET EDI	01/17/25 07:23
Total/NA	Analysis	6020B		1	1017043	MDC	EET EDI	01/17/25 17:29
Total/NA	Prep	3050B			1016985	FBT	EET EDI	01/17/25 07:23
Total/NA	Analysis	6020B		10	1017043	MDC	EET EDI	01/17/25 19:33
Total/NA	Prep	7471B			1016527	TJS	EET EDI	01/15/25 00:42
Total/NA	Analysis	7471B		1	1016585	TJS	EET EDI	01/15/25 05:14
Total/NA	Prep	9012B			1016705	VBG	EET EDI	01/15/25 17:48
Total/NA	Analysis	9012B		1	1016738	VBG	EET EDI	01/15/25 21:59

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

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	1016480	CJC	EET EDI	01/14/25 17:16

Lab Chronicle

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

Job ID: 460-318705-1

Client Sample ID: TB-4

Date Collected: 01/13/25 09:50

Date Received: 01/13/25 19:00

Lab Sample ID: 460-318705-4

Matrix: Solid

Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1016506	YXG	EET EDI	01/14/25 19:17
Total/NA	Analysis	8260D		1	1017079	AAT	EET EDI	01/18/25 03:04
Total/NA	Prep	3546			1016733	GXY	EET EDI	01/15/25 20:16
Total/NA	Analysis	8270E		1	1016768	MDJ	EET EDI	01/16/25 08:46
Total/NA	Prep	3546			1016479	ARA	EET EDI	01/14/25 17:11
Total/NA	Analysis	8081B		1	1016538	FAM	EET EDI	01/15/25 07:45
Total/NA	Prep	3546			1016478	ARA	EET EDI	01/14/25 17:06
Total/NA	Analysis	8082A		1	1016493	AAA	EET EDI	01/15/25 04:11
Total/NA	Prep	3050B			1016985	FBT	EET EDI	01/17/25 07:23
Total/NA	Analysis	6020B		1	1017043	MDC	EET EDI	01/17/25 17:32
Total/NA	Prep	7471B			1016527	TJS	EET EDI	01/15/25 00:42
Total/NA	Analysis	7471B		1	1016585	TJS	EET EDI	01/15/25 05:16
Total/NA	Prep	9012B			1016705	VBG	EET EDI	01/15/25 17:48
Total/NA	Analysis	9012B		1	1016738	VBG	EET EDI	01/15/25 22:00

Client Sample ID: TW-1

Date Collected: 01/13/25 12:00

Date Received: 01/13/25 19:00

Lab Sample ID: 460-318705-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	1016782	CJM	EET EDI	01/16/25 12:13
Total/NA	Prep	3510C			1016420	SXS	EET EDI	01/15/25 09:13
Total/NA	Analysis	8270E		1	1016721	MME	EET EDI	01/15/25 23:05
Total/NA	Prep	3510C			1016730	JMS	EET EDI	01/15/25 19:57
Total/NA	Analysis	8081B		1	1016754	FAM	EET EDI	01/16/25 04:13
Total/NA	Prep	3510C			1016728	JMS	EET EDI	01/15/25 19:51
Total/NA	Analysis	8082A		1	1016758	FAM	EET EDI	01/16/25 08:50
Total/NA	Prep	3010A			1016885	NNW	EET EDI	01/16/25 13:16
Total/NA	Analysis	6020B		1	1017043	MDC	EET EDI	01/17/25 10:58
Total/NA	Prep	7470A			1016640	RBS	EET EDI	01/15/25 11:07
Total/NA	Analysis	7470A		1	1016691	RBS	EET EDI	01/15/25 14:05
Total/NA	Prep	9012B			1016704	VBG	EET EDI	01/15/25 17:46
Total/NA	Analysis	9012B		1	1016738	VBG	EET EDI	01/15/25 21:14

Client Sample ID: TW-2

Date Collected: 01/13/25 12:30

Date Received: 01/13/25 19:00

Lab Sample ID: 460-318705-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	1016782	CJM	EET EDI	01/16/25 11:48
Total/NA	Prep	3510C			1016420	SXS	EET EDI	01/15/25 09:13
Total/NA	Analysis	8270E		1	1016721	MME	EET EDI	01/15/25 23:26
Total/NA	Prep	3510C			1017027	OTS	EET EDI	01/17/25 10:16
Total/NA	Analysis	8081B		1	1017004	JHP	EET EDI	01/17/25 15:13

Eurofins Edison

Lab Chronicle

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

Job ID: 460-318705-1

Client Sample ID: TW-2

Date Collected: 01/13/25 12:30

Date Received: 01/13/25 19:00

Lab Sample ID: 460-318705-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			1016942	JMS	EET EDI	01/17/25 10:14
Total/NA	Analysis	8082A		1	1017013	JHP	EET EDI	01/17/25 14:45
Total/NA	Prep	3010A			1016885	NNW	EET EDI	01/16/25 13:16
Total/NA	Analysis	6020B		1	1017043	MDC	EET EDI	01/17/25 11:01
Total/NA	Prep	7470A			1016640	RBS	EET EDI	01/15/25 11:07
Total/NA	Analysis	7470A		1	1016691	RBS	EET EDI	01/15/25 14:07
Total/NA	Prep	9012B			1016704	VBG	EET EDI	01/15/25 17:46
Total/NA	Analysis	9012B		1	1016738	VBG	EET EDI	01/15/25 21:16

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 460-318705-1

Laboratory: Eurofins Edison

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

Authority	Program	Identification Number	Expiration Date
New Jersey	NELAP	12028	06-30-25

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

Analysis Method	Prep Method	Matrix	Analyte
8082A	3510C	Water	Polychlorinated biphenyls, Total
8260D	5035	Solid	m-Xylene & p-Xylene
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Pennsylvania	NELAP	68-00522	02-28-25
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The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
6020B	3050B	Solid	Aluminum
6020B	3050B	Solid	Antimony
6020B	3050B	Solid	Arsenic
6020B	3050B	Solid	Barium
6020B	3050B	Solid	Beryllium
6020B	3050B	Solid	Cadmium
6020B	3050B	Solid	Calcium
6020B	3050B	Solid	Chromium
6020B	3050B	Solid	Cobalt
6020B	3050B	Solid	Copper
6020B	3050B	Solid	Iron
6020B	3050B	Solid	Lead
6020B	3050B	Solid	Magnesium
6020B	3050B	Solid	Manganese
6020B	3050B	Solid	Nickel
6020B	3050B	Solid	Potassium
6020B	3050B	Solid	Selenium
6020B	3050B	Solid	Silver
6020B	3050B	Solid	Sodium
6020B	3050B	Solid	Thallium
6020B	3050B	Solid	Vanadium
6020B	3050B	Solid	Zinc
7471B	7471B	Solid	Mercury
8081B	3546	Solid	4,4'-DDD
8081B	3546	Solid	4,4'-DDE
8081B	3546	Solid	4,4'-DDT
8081B	3546	Solid	Aldrin
8081B	3546	Solid	alpha-BHC
8081B	3546	Solid	beta-BHC
8081B	3546	Solid	Chlordane (technical)
8081B	3546	Solid	delta-BHC
8081B	3546	Solid	Dieldrin
8081B	3546	Solid	Endosulfan I
8081B	3546	Solid	Endosulfan II
8081B	3546	Solid	Endosulfan sulfate
8081B	3546	Solid	Endrin
8081B	3546	Solid	Endrin aldehyde

Eurofins Edison

Accreditation/Certification Summary

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

Job ID: 460-318705-1

Laboratory: Eurofins Edison (Continued)

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

Authority	Program	Identification Number	Expiration Date
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8081B	3546	Solid	Endrin ketone
8081B	3546	Solid	gamma-BHC (Lindane)
8081B	3546	Solid	Heptachlor
8081B	3546	Solid	Heptachlor epoxide
8081B	3546	Solid	Methoxychlor
8081B	3546	Solid	Toxaphene
8082A	3546	Solid	Aroclor 1016
8082A	3546	Solid	Aroclor 1221
8082A	3546	Solid	Aroclor 1232
8082A	3546	Solid	Aroclor 1242
8082A	3546	Solid	Aroclor 1248
8082A	3546	Solid	Aroclor 1254
8082A	3546	Solid	Aroclor 1260
8082A	3546	Solid	Aroclor 1268
8082A	3546	Solid	PCB-1262
9012B	9012B	Solid	Cyanide, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

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

Job ID: 460-318705-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET EDI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET EDI
8081B	Organochlorine Pesticides (GC)	SW846	EET EDI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET EDI
6020B	Metals (ICP/MS)	SW846	EET EDI
7470A	Mercury (CVAA)	SW846	EET EDI
7471B	Mercury (CVAA)	SW846	EET EDI
9012B	Cyanide, Total and/or Amenable	SW846	EET EDI
Moisture	Percent Moisture	EPA	EET EDI
3010A	Preparation, Total Metals	SW846	EET EDI
3050B	Preparation, Metals	SW846	EET EDI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET EDI
3546	Microwave Extraction	SW846	EET EDI
5030C	Purge and Trap	SW846	EET EDI
5035	Closed System Purge and Trap	SW846	EET EDI
7470A	Preparation, Mercury	SW846	EET EDI
7471B	Preparation, Mercury	SW846	EET EDI
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	EET EDI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

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

Job ID: 460-318705-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-318705-1	TB-1	Solid	01/13/25 13:00	01/13/25 19:00
460-318705-2	TB-2	Solid	01/13/25 10:30	01/13/25 19:00
460-318705-3	TB-3	Solid	01/13/25 11:30	01/13/25 19:00
460-318705-4	TB-4	Solid	01/13/25 09:50	01/13/25 19:00
460-318705-5	TW-1	Water	01/13/25 12:00	01/13/25 19:00
460-318705-6	TW-2	Water	01/13/25 12:30	01/13/25 19:00

South Jefferies Custody Record

702392 eurofins

Environment Testing America

TAL-3210

318705

Address:

Regulatory Program ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Client Contact		Project Manager: Kurt Martin		Site Contact:		Date:	
Company Name: Callios Engineering		Tel/Email: 732-546-7513		Lab Contact:		Carrier:	
Address: 2000 N. Lincoln Blvd		Analysis Turnaround Time		Perform MS / MSD (Y / N)		COC No:	
City/State/Zip: Mt Laurel, NJ 08054		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS		Core Capable - 82602 DTP		1 of 2 COCs	
Phone: 877 627 3772		TAT if different from Below		Core Capable - 82602 DTP		Sampler	
Fax:		<input type="checkbox"/> 2 weeks		Core Capable - 82602 DTP		For Lab Use Only	
Project Name: City of Chester		<input type="checkbox"/> 1 week		Core Capable - 82602 DTP		Walk-in Client:	
Site: Chester PA		<input type="checkbox"/> 2 days		Core Capable - 82602 DTP		Lab Sampling:	
PO# COED0064		<input type="checkbox"/> 1 day		Core Capable - 82602 DTP		Job / SDG No.	

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Sample Specific Notes:
TB-1	11/13/25	1700	C	Soil	5	X	1
TB-2		1030	C			X	2
TB-3		1030	C			X	3
TB-4		0730	C			X	4



460-318705 Chain of Custody

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.	Company	Received by:	Date/Time:	Cooler Temp. (°C): Obs'd: 2.9°C	Therm ID No.:
Relinquished by: Joe Vello	CED	Company	Received by: [Signature]	1/13/25	15:24	10
Relinquished by: [Signature]	ETA	Company	Received by: [Signature]	1/13/25	11:13	
Relinquished by: [Signature]	ETA	Company	Received by: [Signature]	1/13/25	19:00	

Address:

Regulatory Program ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Company Name: <u>Collins Engineering</u> Address: <u>2000 Midland Ave</u> City/State/Zip: <u>Atlanta, GA 30322</u> Phone: <u>877 627 3772</u> Fax: _____ Project Name: <u>City of Atlanta</u> Site: <u>Chickasaw</u> PO #: <u>COOP 0004</u>		Client Contact Project Manager: <u>Burt Martin</u> Tel/Email: <u>772 516 7513</u>		Site Contact Lab Contact: _____ Date: _____ Carrier: _____		COC No: <u>316705</u> 1 of 2 COCs Sampler: _____ For Lab Use Only Walk-in Client: _____ Lab Sampling: _____ Job / SDG No.: _____	
Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Sample Type (C=Comp, G=Grab) Sample Date: <u>11/13/25</u> Sample Time: <u>12:00</u> Matrix: <u>GW</u> # of Cont.: <u>14</u>		Sample Specific Notes: <u>5</u> <u>6</u>			
Sample Identification <u>TW-1</u> <u>TW-2</u>		Sample Date: <u>11/13/25</u> Sample Time: <u>12:00</u> Matrix: <u>GW</u> # of Cont.: <u>14</u>		Sample Specific Notes: <u>5</u> <u>6</u>			
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other _____ Possible Hazard Identification Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months		Special Instructions/QC Requirements & Comments.			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Relinquished by: <u>Joe Vello</u> Relinquished by: <u>Patricia Long</u> Relinquished by: <u>HT</u>		Custody Seal No.: _____ Company: <u>ETA</u> Date/Time: <u>11/13/25 17:00</u> Company: <u>ETA</u> Date/Time: <u>11/13/25 19:00</u>		Cooler Temp. (°C): Obs'd <u>22.3/31</u> Cor'd <u>22.3/31</u> Therm ID No.: <u>10</u> Received by: <u>Patricia Long</u> Company: <u>ETA</u> Date/Time: <u>11/13/25 15:24</u> Received by: <u>HT</u> Company: <u>ETA</u> Date/Time: <u>11/13/25 19:00</u>			

Job Number:

378705

Number of Coolers:

2

IR Gun #

9

Cooler Temperatures

[illegible]

If pH adjustments are required record the information below:

Sample No(s) adjusted

Preservative Name/Conc.

Volume of Preservative used (ml):

Lot # of Preservative(s):

Expiration Date:

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.
Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.

EDS-WI-038, Rev 4, 06/09/2014

Initials

10

Date:

1/13/25

Login Sample Receipt Checklist

Client: Colliers Engineering and Design Inc

Job Number: 460-318705-1

Login Number: 318705

List Source: Eurofins Edison

List Number: 1

Creator: Thundathorn, Sukanan 1

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX E

Eurofins
Environment
Testing Analytical
Report
460-318705-2
dated January 30,
2025



ANALYTICAL REPORT

PREPARED FOR

Attn: Kurt Martin
Colliers Engineering and Design Inc
100 American Metro Blvd
Suite 152
Hamilton, New Jersey 08619

Generated 1/30/2025 12:21:46 PM

JOB DESCRIPTION

City of Chester

JOB NUMBER

460-318705-2

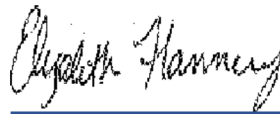
Eurofins Edison

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization



Generated
1/30/2025 12:21:46 PM

Authorized for release by
Elizabeth Flannery, Project Manager I
Elizabeth.Flannery@et.eurofinsus.com
(732)549-3900

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Definitions/Glossary

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

Job ID: 460-318705-2

Qualifiers

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.

Glossary

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

Case Narrative

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

Job ID: 460-318705-2

Job ID: 460-318705-2

Eurofins Edison

Job Narrative 460-318705-2

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.

Receipt Exceptions

The following samples were activated for SPLP Metals analysis by the client on 1/24/25:

Arsenic – TB-4
Beryllium – TB-2
Cobalt – TB-3 or TB-1
Lead TB-3 or TB-4
Manganese TB-3
Nickel TB-3 or TB-2
Thallium TB-2
Vanadium TB-4

This analysis was not originally requested on the chain-of-custody (COC).

Metals

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

Eurofins Edison

Detection Summary

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

Job ID: 460-318705-2

Client Sample ID: TB-1

Lab Sample ID: 460-318705-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.0014	J	0.0040	0.00071	mg/L	1		6020B	SPLP East

Client Sample ID: TB-2

Lab Sample ID: 460-318705-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.0010		0.00080	0.00013	mg/L	1		6020B	SPLP East
Nickel	0.019		0.0040	0.00091	mg/L	1		6020B	SPLP East

Client Sample ID: TB-3

Lab Sample ID: 460-318705-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.0059		0.0040	0.00071	mg/L	1		6020B	SPLP East
Lead	0.010		0.0012	0.00084	mg/L	1		6020B	SPLP East
Manganese	1.1		0.0080	0.0015	mg/L	1		6020B	SPLP East
Nickel	0.020		0.0040	0.00091	mg/L	1		6020B	SPLP East

Client Sample ID: TB-4

Lab Sample ID: 460-318705-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.056		0.0020	0.00089	mg/L	1		6020B	SPLP East
Lead	0.083		0.0012	0.00084	mg/L	1		6020B	SPLP East
Vanadium	0.35		0.0040	0.00068	mg/L	1		6020B	SPLP East

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: 460-318705-2

Client Sample ID: TB-1

Date Collected: 01/13/25 13:00

Date Received: 01/13/25 19:00

Lab Sample ID: 460-318705-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	0.0014	J	0.0040	0.00071	mg/L		01/29/25 12:16	01/29/25 20:11	1

Client Sample ID: TB-2

Date Collected: 01/13/25 10:30

Date Received: 01/13/25 19:00

Lab Sample ID: 460-318705-2

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.0010		0.00080	0.00013	mg/L		01/29/25 12:16	01/29/25 20:13	1
Nickel	0.019		0.0040	0.00091	mg/L		01/29/25 12:16	01/29/25 20:13	1
Thallium	0.00021	U	0.00080	0.00021	mg/L		01/29/25 12:16	01/29/25 20:13	1

Client Sample ID: TB-3

Date Collected: 01/13/25 11:30

Date Received: 01/13/25 19:00

Lab Sample ID: 460-318705-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	0.0059		0.0040	0.00071	mg/L		01/29/25 12:16	01/29/25 20:16	1
Lead	0.010		0.0012	0.00084	mg/L		01/29/25 12:16	01/29/25 20:16	1
Manganese	1.1		0.0080	0.0015	mg/L		01/29/25 12:16	01/29/25 20:16	1
Nickel	0.020		0.0040	0.00091	mg/L		01/29/25 12:16	01/29/25 20:16	1

Client Sample ID: TB-4

Date Collected: 01/13/25 09:50

Date Received: 01/13/25 19:00

Lab Sample ID: 460-318705-4

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.056		0.0020	0.00089	mg/L		01/29/25 12:16	01/29/25 20:18	1
Lead	0.083		0.0012	0.00084	mg/L		01/29/25 12:16	01/29/25 20:18	1
Vanadium	0.35		0.0040	0.00068	mg/L		01/29/25 12:16	01/29/25 20:18	1

QC Sample Results

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

Job ID: 460-318705-2

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 460-1018593/1-A

Matrix: Solid

Analysis Batch: 1018609

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1018593

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.00013	U	0.00080	0.00013	mg/L		01/29/25 12:16	01/29/25 19:34	1
Arsenic	0.00089	U	0.0020	0.00089	mg/L		01/29/25 12:16	01/29/25 19:34	1
Manganese	0.0015	U	0.0080	0.0015	mg/L		01/29/25 12:16	01/29/25 19:34	1
Thallium	0.00021	U	0.00080	0.00021	mg/L		01/29/25 12:16	01/29/25 19:34	1
Nickel	0.00091	U	0.0040	0.00091	mg/L		01/29/25 12:16	01/29/25 19:34	1
Lead	0.00084	U	0.0012	0.00084	mg/L		01/29/25 12:16	01/29/25 19:34	1
Vanadium	0.00068	U	0.0040	0.00068	mg/L		01/29/25 12:16	01/29/25 19:34	1
Cobalt	0.00071	U	0.0040	0.00071	mg/L		01/29/25 12:16	01/29/25 19:34	1

Lab Sample ID: LCS 460-1018593/2-A

Matrix: Solid

Analysis Batch: 1018609

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1018593

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0250	0.0242		mg/L		97	80 - 120
Arsenic	0.0500	0.0472		mg/L		94	80 - 120
Manganese	0.250	0.254		mg/L		101	80 - 120
Thallium	0.0200	0.0190		mg/L		95	80 - 120
Nickel	0.0500	0.0519		mg/L		104	80 - 120
Lead	0.0250	0.0237		mg/L		95	80 - 120
Vanadium	0.0500	0.0518		mg/L		104	80 - 120
Cobalt	0.0250	0.0250		mg/L		100	80 - 120

Lab Sample ID: LB 460-1018136/1-B

Matrix: Solid

Analysis Batch: 1018609

Client Sample ID: Method Blank

Prep Type: SPLP East

Prep Batch: 1018593

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.00013	U	0.00080	0.00013	mg/L		01/29/25 12:16	01/29/25 20:52	1
Arsenic	0.00089	U	0.0020	0.00089	mg/L		01/29/25 12:16	01/29/25 20:52	1
Manganese	0.0015	U	0.0080	0.0015	mg/L		01/29/25 12:16	01/29/25 20:52	1
Thallium	0.00021	U	0.00080	0.00021	mg/L		01/29/25 12:16	01/29/25 20:52	1
Nickel	0.00091	U	0.0040	0.00091	mg/L		01/29/25 12:16	01/29/25 20:52	1
Lead	0.00084	U	0.0012	0.00084	mg/L		01/29/25 12:16	01/29/25 20:52	1
Vanadium	0.00068	U	0.0040	0.00068	mg/L		01/29/25 12:16	01/29/25 20:52	1
Cobalt	0.00071	U	0.0040	0.00071	mg/L		01/29/25 12:16	01/29/25 20:52	1

Lab Sample ID: LB 460-1018280/1-B

Matrix: Solid

Analysis Batch: 1018609

Client Sample ID: Method Blank

Prep Type: SPLP East

Prep Batch: 1018593

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.00013	U	0.00080	0.00013	mg/L		01/29/25 12:16	01/29/25 20:47	1
Arsenic	0.00089	U	0.0020	0.00089	mg/L		01/29/25 12:16	01/29/25 20:47	1
Manganese	0.0015	U	0.0080	0.0015	mg/L		01/29/25 12:16	01/29/25 20:47	1
Thallium	0.00021	U	0.00080	0.00021	mg/L		01/29/25 12:16	01/29/25 20:47	1
Nickel	0.00173	J	0.0040	0.00091	mg/L		01/29/25 12:16	01/29/25 20:47	1
Lead	0.00084	U	0.0012	0.00084	mg/L		01/29/25 12:16	01/29/25 20:47	1
Vanadium	0.00068	U	0.0040	0.00068	mg/L		01/29/25 12:16	01/29/25 20:47	1

Eurofins Edison

QC Sample Results

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

Job ID: 460-318705-2

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

Lab Sample ID: LB 460-1018280/1-B

Matrix: Solid

Analysis Batch: 1018609

Client Sample ID: Method Blank

Prep Type: SPLP East

Prep Batch: 1018593

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	0.00071	U	0.0040	0.00071	mg/L		01/29/25 12:16	01/29/25 20:47	1

QC Association Summary

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

Job ID: 460-318705-2

Metals

Leach Batch: 1018136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-318705-1	TB-1	SPLP East	Solid	1312	
460-318705-2	TB-2	SPLP East	Solid	1312	
460-318705-3	TB-3	SPLP East	Solid	1312	
460-318705-4	TB-4	SPLP East	Solid	1312	
LB 460-1018136/1-B	Method Blank	SPLP East	Solid	1312	

Leach Batch: 1018280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 460-1018280/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 1018593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-318705-1	TB-1	SPLP East	Solid	3010A	1018136
460-318705-2	TB-2	SPLP East	Solid	3010A	1018136
460-318705-3	TB-3	SPLP East	Solid	3010A	1018136
460-318705-4	TB-4	SPLP East	Solid	3010A	1018136
LB 460-1018136/1-B	Method Blank	SPLP East	Solid	3010A	1018136
LB 460-1018280/1-B	Method Blank	SPLP East	Solid	3010A	1018280
MB 460-1018593/1-A	Method Blank	Total/NA	Solid	3010A	
LCS 460-1018593/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 1018609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-318705-1	TB-1	SPLP East	Solid	6020B	1018593
460-318705-2	TB-2	SPLP East	Solid	6020B	1018593
460-318705-3	TB-3	SPLP East	Solid	6020B	1018593
460-318705-4	TB-4	SPLP East	Solid	6020B	1018593
LB 460-1018136/1-B	Method Blank	SPLP East	Solid	6020B	1018593
LB 460-1018280/1-B	Method Blank	SPLP East	Solid	6020B	1018593
MB 460-1018593/1-A	Method Blank	Total/NA	Solid	6020B	1018593
LCS 460-1018593/2-A	Lab Control Sample	Total/NA	Solid	6020B	1018593

Lab Chronicle

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

Job ID: 460-318705-2

Client Sample ID: TB-1

Date Collected: 01/13/25 13:00

Date Received: 01/13/25 19:00

Lab Sample ID: 460-318705-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			1018136	YXG	EET EDI	01/26/25 15:12 - 01/27/25 09:00 ¹
SPLP East	Prep	3010A			1018593	NNW	EET EDI	01/29/25 12:16
SPLP East	Analysis	6020B		1	1018609	JKF	EET EDI	01/29/25 20:11

Client Sample ID: TB-2

Date Collected: 01/13/25 10:30

Date Received: 01/13/25 19:00

Lab Sample ID: 460-318705-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			1018136	YXG	EET EDI	01/26/25 15:12 - 01/27/25 09:00 ¹
SPLP East	Prep	3010A			1018593	NNW	EET EDI	01/29/25 12:16
SPLP East	Analysis	6020B		1	1018609	JKF	EET EDI	01/29/25 20:13

Client Sample ID: TB-3

Date Collected: 01/13/25 11:30

Date Received: 01/13/25 19:00

Lab Sample ID: 460-318705-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			1018136	YXG	EET EDI	01/26/25 15:12 - 01/27/25 09:00 ¹
SPLP East	Prep	3010A			1018593	NNW	EET EDI	01/29/25 12:16
SPLP East	Analysis	6020B		1	1018609	JKF	EET EDI	01/29/25 20:16

Client Sample ID: TB-4

Date Collected: 01/13/25 09:50

Date Received: 01/13/25 19:00

Lab Sample ID: 460-318705-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			1018136	YXG	EET EDI	01/26/25 15:12 - 01/27/25 09:00 ¹
SPLP East	Prep	3010A			1018593	NNW	EET EDI	01/29/25 12:16
SPLP East	Analysis	6020B		1	1018609	JKF	EET EDI	01/29/25 20:18

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

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 460-318705-2

Laboratory: Eurofins Edison

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

Authority	Program	Identification Number	Expiration Date
New Jersey	NELAP	12028	06-30-25
Pennsylvania	NELAP	68-00522	02-28-25

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

Analysis Method	Prep Method	Matrix	Analyte
6020B	3010A	Solid	Arsenic
6020B	3010A	Solid	Beryllium
6020B	3010A	Solid	Cobalt
6020B	3010A	Solid	Lead
6020B	3010A	Solid	Manganese
6020B	3010A	Solid	Nickel
6020B	3010A	Solid	Thallium
6020B	3010A	Solid	Vanadium

Method Summary

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

Job ID: 460-318705-2

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET EDI
1312	SPLP Extraction	SW846	EET EDI
3010A	Preparation, Total Metals	SW846	EET EDI

Protocol References:

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

Laboratory References:

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

Sample Summary

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

Job ID: 460-318705-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-318705-1	TB-1	Solid	01/13/25 13:00	01/13/25 19:00
460-318705-2	TB-2	Solid	01/13/25 10:30	01/13/25 19:00
460-318705-3	TB-3	Solid	01/13/25 11:30	01/13/25 19:00
460-318705-4	TB-4	Solid	01/13/25 09:50	01/13/25 19:00

1

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12

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14

South Jefferies Custody Record

702392 eurofins Environment Testing America

TAL-3210

Regulatory Program ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Company Name: Callios Engineering
 Address: 2000 N. Lincoln Blvd
 City/State/Zip: MT Leno, NJ 08054
 Phone: 877 627 3772
 Fax:
 Project Name: City of Chester
 Site: Chester PA
 PO# COED0004

Project Manager: Kurt Martin
 Tel/Email: 732-546-7513
 Analysis Turnaround Time
☐ CALENDAR DAYS ☐ WORKING DAYS
 TAT if different from Below
☐ 2 weeks
☐ 1 week
☐ 2 days
☐ 1 day

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Core Sample (Y/N)	Lab Contact:	Site Contact:	Date:	Carrier:	COC No:	COCs
TB-1	11/13/25	1700	C	Soil	5		X	X	Core Sample - 8260P-130P	Lab Contact: <u>90128-DICAP</u>			1	1 of 2
TB-2		1030	C							Lab Contact: <u>8082A-DICAP</u>			2	
TB-3		1030	C							Lab Contact: <u>8081B-DICAP</u>			3	
TB-4		0730	C							Lab Contact: <u>8270E-DICAP</u>			4	

SHO
HOI



460-318705 Chain of Custody

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other

Possible Hazard Identification
 Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Special Instructions/QC Requirements & Comments:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Custody Seal No. 10
 Relinquished by Joe Vello Date/Time: 11/13/25 15:24
 Relinquished by Paul Dwyer Date/Time: 11/13/25 11:13
 Relinquished by Joe Date/Time: 11/13/25 1900

[illegible]

Job Number:

378705

Number of Coolers:

2

IR Gun #

9

Cooler Temperatures

	CORRECTED		RAW		CORRECTED		RAW		
Cooler #1	2.9	°C	2.9	°C	Cooler #4:	°C	°C	Cooler #7:	°C
Cooler #2:	3.1	°C	3.1	°C	Cooler #5:	°C	°C	Cooler #8:	°C
Cooler #3:	°C	°C	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C

[illegible]

If pH adjustments are required record the information below:

Sample No(s) adjusted

Preservative Name/Conc.

Volume of Preservative used (ml):

Lot # of Preservative(s):

Expiration Date:

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

- Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.

EDS-WI-038, Rev 4, 06/09/2014

Initials

10

Date: 1/13/25

Login Sample Receipt Checklist

Client: Colliers Engineering and Design Inc

Job Number: 460-318705-2

Login Number: 318705

List Source: Eurofins Edison

List Number: 1

Creator: Thundathorn, Sukanan 1

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

Eurofins Edison



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For a full listing of our office locations, please visit colliersengineering.com

1 877 627 3772



*Civil/Site • Traffic/Transportation • Governmental • Survey/Geospatial
Infrastructure • Geotechnical/Environmental • Telecommunications • Utilities/Energy*