

SB-22

RESULTS & INSTRUMENTATION

Company NATIONAL GROUND PENETRATING RADAR SERVICE, INC.

GROUND PENETRATING RADAR (Make/Model): GSSI/SIR3000 Calibration/QC Test Date: 11/2/17

Antenna: 400 MHZ

Range: 100 ns

File Name(s):

Results: Buried objects imaged? Y ☒ N Other anomalous reflections? ☒ N

Describe: FILL MATERIALS w/ DEBRIS TO A depth of 2' BGS

Estimated Signal Penetration Depth (ft): 5.0'

RF PIP & CABLE LOCATOR (make/model): RIDGID/SR-20 Calibration/QC Test Date:

Applied Signal, Direct Connect: No Surface Utility Features for Connection: ☒Other Scanning Modes: P ☒ R Applied Signal, Induced:Results: Underground utilities detected near boring location? ☒ Y NDescribe: UNKNOWN LINE 10' SOUTH of SB-22; 9' BGS
MARKED & FLAGGED

EM PIPE & CABLE LOCATOR (make/model): SCHONSTADT Calibration/QC Test Date:

Results: Buried metal detected? Y N

Underground utilities detected near boring location? Y N

Describe:

MAGNETOMETER (make/model): Calibration/QC Test Date:

Results: Buried metal detected? Y N

Describe:

ELECTROMAGNETIC TERRAIN CONDUCTIVITY (EM31)

Not used due to proximity of surface metal objects (e.g., vehicles)

Background Conductivity: mS/m (mmhos/m)

Results: Buried metal detected? Y N Other anomalous readings? Y N

Describe:

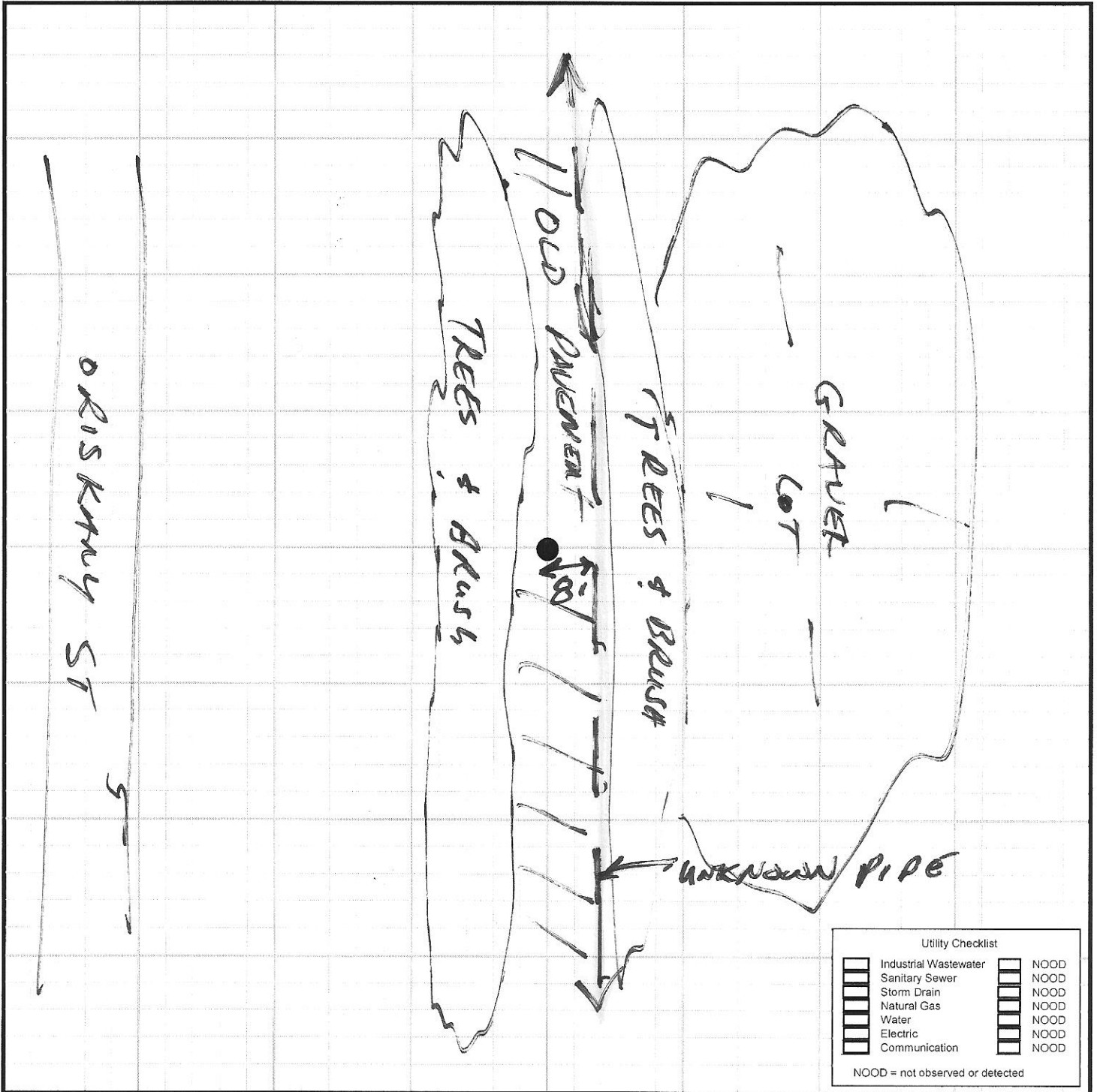


Utility Clearance Record

Company: NATIONAL GROUND PENETRATING RADAR SERVICE, INC.
 Address: 8400 Normandale Lake Blvd, Suite 920
 (City, ST Zip): Minneapolis, Minnesota 55437
 Phone No.: Toll Free: (877) 556-4777
 Operator Name:

Project Name: AECC
 Project No.: 178585
 Installation Name: 1712 Erie Street
 Borehole/MW No.: SB-23 / TW-8
 Borehole/MW Location:
 Date Cleared: 11/2/17

SKETCH MAP



0 Feet (approx)

North Arrow:
 Designate here or on the sketch map

SB-23 / TW-8

RESULTS & INSTRUMENTATION

Company NATIONAL GROUND PENETRATING RADAR SERVICE, INC.

GROUND PENETRATING RADAR (Make/Model): GSSI/SIR3000 Calibration/QC Test Date: 11/2/17

Antenna: 400 MHZ

Range: 100 ns

File Name(s):

Results: Buried objects imaged? Y ☒ N Other anomalous reflections? ☒ NDescribe: REINFORCED CONCRETE AT LOCATION ~ 1.0'
OLD BLDG FOUNDATION

Estimated Signal Penetration Depth (ft): 3.0 - REINFORCED CONCRETE

RF PIP & CABLE LOCATOR (make/model): RIDGID/SR-20 Calibration/QC Test Date:

Applied Signal, Direct Connect: No Surface Utility Features for Connection: ☒Other Scanning Modes: P ☒ R Applied Signal, Induced:Results: Underground utilities detected near boring location? ☒ NDescribe: UNKNOWN PIPE LOCATED 8' SOUTH of SB-23
DEPTH 10' - FLAGGED & MARKED

EM PIPE & CABLE LOCATOR (make/model): SCHONSTADT Calibration/QC Test Date:

Results: Buried metal detected? Y N

Underground utilities detected near boring location? Y N

Describe:

MAGNETOMETER (make/model): Calibration/QC Test Date:

Results: Buried metal detected? Y N

Describe:

ELECTROMAGNETIC TERRAIN CONDUCTIVITY (EM31)

Not used due to proximity of surface metal objects (e.g., vehicles)

Background Conductivity: mS/m (mmhos/m)

Results: Buried metal detected? Y N Other anomalous readings? Y N

Describe:



APPENDIX B

SOIL BORING LOGS



Soil Boring Log

Project #/Name:	17-217 / Former Mele Manufacturing	BORING ID: SB-7r
Client:	City of Utica	
Site Location:	1712 Erie Street, Utica, NY	
Coordinates:	43.111163161 -75.25873515 NAD 1983 (Conus)	Sheet: 1 of 1
Drilling Contractor:	NYEG	Logged By: DB
Drilling Method:	Remote Operated GeoProbe Rig	Boring Diameter: 2"
Date:	11/9/17	Sample Type(s): Direct Push, 5' Sections
Time Start:	0945	Ground Elevation:
Time Finish:	1025	Monitoring Well? Temporary/Permanent: N/A Diameter: N/A Boring Depth:
		Screened Interval: N/A Riser Height: N/A Water Level:

Depth (ft)	Sample Depth (ft)	Blow Count (per 6 inches)	Recovery (ft)	PID Response (ppmv)	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)	Lab Sample ID (Depth)
1					*Materials not logged (refer to note and prior investigation)	
2						
3						
4						
5						
6			2.5'	0.0	5 - 10' - Dark brown (some black), coarse SAND, trace medium sand, trace gravel	
7						
8						
9						
10						
11			2'	0.0	10 - 11.5' - Dark brown/black, coarse SAND, trace gravel, odor	Sample SB-7 for VOCs, SVOCs, and Metals
12						
13						
14						
15						
16			5'	(3.0)	11.5 - 15' - Tan, fine SAND and GRAVEL, tightly compacted, dry	
17						
18						
19						
20						
21					Boring terminated at 15' bgs	
22						
23						
24						
25						

bgs = below ground surface
 ▼ = observed water level

NOTES: Re-drilling at location SB-7 from previous investigation

 Soil Boring Log					Project #/Name: 17-217 / Former Mele Manufacturing			BORING ID: SB-20	
					Client: City of Utica				
					Site Location: 1712 Erie Street, Utica, NY				
					Coordinates: 43.11080717 -75.25662127 NAD 1983 (Conus)			Sheet: 1 of 1	
					Drilling Contractor: NYEG			Logged By: DB	
Drilling Method: Remote Operated GeoProbe Rig			Boring Diameter: 2"						
Date: 11/9/17					Sample Type(s): Direct Push, 5' Sections			Ground Elevation:	
Time Start: 1208					Monitoring Well? TW-7			Boring Depth:	
Time Finish: 1238					Temporary/Permanent: Temp			Diameter: 1" PVC	
					Screened Interval: ~3 - 13' bgs			Riser Height: 0.90'	
								Water Level:	
Depth (ft)	Sample Depth (ft)	Blow Count (per 6 inches)	Recovery (ft)	PID Response (ppmv)	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)				Lab Sample ID (Depth)
1			3.5'	0.0	0 - 0.5' - Organic / Topsoil				
2					0.5 - 1.5' - Red, BRICK and other fill-like material				
3					1.5' - 3' - Gray, CONCRETE/STONE and other fill-like material				
4					3 - 5' - Brown, medium SAND and fine sand, trace gravel				
5			3.25'	(0.0)	5 - 6' - Blackish, medium SAND, some gravel, odor				Sample SB-20 for VOCs, SVOCs, and Metals
6					6 - 10' - Brown with some black, medium SAND, some coarse sand, wet				
7									
8									
9			4.5'	(0.0)					
10					10 - 12' - Dark brown, coarse SAND and gravel, wet				
11									
12					12 - 15' - Brown with some red, SILT and gravel, tightly compacted				
13									
14									
15					Boring terminated @ 15' bgs				
16									
17									
18									
19									
20									
bgs = below ground surface ▼ = observed water level					NOTES:				
<i>These soil boring logs were prepared in conjunction with an environmental investigation. The data represented shall not be used for any other purpose (ex - geotechnical assessment, etc.).</i>									



Soil Boring Log

Project #/Name:	17-217 / Former Mele Manufacturing	BORING ID: SB-21
Client:	City of Utica	
Site Location:	1712 Erie Street, Utica, NY	
Coordinates:	43.11070688 -75.2561289 NAD 1983 (Conus)	Sheet: 1 of 1
Drilling Contractor:	NYEG	Logged By: DB
Drilling Method:	Remote Operated GeoProbe Rig	Boring Diameter: 2"
Date:	11/9/17	Sample Type(s): Direct Push, 5' Sections
Time Start:	1240	Monitoring Well? Temporary/Permanent: N/A Diameter: N/A
Time Finish:	1256	Screened Interval: N/A Riser Height: N/A
		Ground Elevation:
		Boring Depth:
		Water Level:

Depth (ft)	Sample Depth (ft)	Blow Count (per 6 inches)	Recovery (ft)	PID Response (ppmv)	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)	Lab Sample ID (Depth)
1				0.0	0 - 0.5' - Organic / Topsoil 0.5 - 2' - Red, BRICK material	
2			3'			
3				(0.0)	2 - 5' - Dark brown, medium SAND, trace gravel, moist	
4						
5					5 - 6' - Blackish, medium SAND and coarse sand, trace gravel, wet, odor	Sample SB-21 for VOCs, SVOCs, and Metals
6				(0.0)	6 - 7.5' - Brown, medium SAND and fine sand, wet	
7			3.5'			
8				0.0	7.5 - 10' - Tannish brown, fine SAND and silt and gravel, densely compacted	
9						
10					Boring terminated @ 10' bgs	
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

bgs = below ground surface
▼ = observed water level

NOTES:

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Soil Boring Log

Project #/Name: 17-217 / Former Mele Manufacturing			BORING ID: SB-22		
Client: City of Utica					
Site Location: 1712 Erie Street, Utica, NY					
Coordinates:	43.11054759	-75.25637701	NAD 1983 (Conus)	Sheet:	1 of 1
Drilling Contractor:	NYEG			Logged By:	DB
Drilling Method:	Remote Operated GeoProbe Rig			Boring Diameter:	2"
Sample Type(s):	Direct Push, 5' Sections			Ground Elevation:	
Monitoring Well?	Temporary/Permanent:	N/A	Diameter:	N/A	Boring Depth:
	Screened Interval:	N/A	Riser Height:	N/A	Water Level:

Depth (ft)	Sample Depth (ft)	Blow Count (per 6 inches)	Recovery (ft)	PID Response (ppmv)	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)	Lab Sample ID (Depth)
1			3.25'	0.0	0 - 0.5' - Organic / Topsoil 0.5 - 1.5' - Brown, medium SAND 1.5 - 2.5' - Gray, STONE and gravel, fill-like material 2.5 - 5' - Brown, medium SAND and coarse sand, trace gravel	
2						
3						
4						
5						
6			4.75'	(2.4)	5 - 8' - Brown, medium SAND, moist	Sample SB-22 for VOCs, SVOCs, and Metals
7				0.0		
8						
9				0.0	8 - 10' - Light brown, SILT and very fine sand, wet	
10						
11					Boring terminated @ 10' bgs	
12						
13						
14						
15						
16						
17						
18						
19						
20						

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 = observed water level

NOTES:

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Soil Boring Log

Project #/Name:	17-217 / Former Mele Manufacturing	BORING ID: SB-23
Client:	City of Utica	
Site Location:	1712 Erie Street, Utica, NY	
Coordinates:	43.11062961 -75.2567330 NAD 1983 (Conus)	Sheet: 1 of 1
Drilling Contractor:	NYEG	Logged By: DB
Drilling Method:	Remote Operated GeoProbe Rig	Boring Diameter: 2"
Date:	11/10/17	Sample Type(s): Direct Push, 5' Sections
Time Start:	1042	Monitoring Well? Temporary/Permanent: Temp Diameter: 1" PVC
Time Finish:	1110	Screened Interval: 3 - 13' bgs Riser Height: 1.40' Boring Depth:
		Ground Elevation:
		Water Level:

Depth (ft)	Sample Depth (ft)	Blow Count (per 6 inches)	Recovery (ft)	PID Response (ppmv)	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)	Lab Sample ID (Depth)
1					0 - 3.5' - FILL-like material	
2			4'	0.0		
3						
4				(0.7)	3.5 - 5' - Brown, medium SAND and coarse sand	
5						Sample SB-23 for VOCs, SVOCs, and Metals
6				(0.4)	5 - 10' - Brown, medium SAND and coarse sand, some gravel, moist	
7			2.25'	0.0		
8						
9						
10						
11				(0.0)	10 - 11.5' - Brown, SILT, wet	
12			4.75'		11.5 - 15' - Brownish gray, SILT, moist	
13						
14						
15					Boring terminated @ 15' bgs	
16						
17						
18						
19						
20						

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NOTES:

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 Soil Boring Log					Project #/Name: 17-217 / Former Mele Manufacturing			BORING ID: SB-24		
					Client: City of Utica					
					Site Location: 1712 Erie Street, Utica, NY					
					Coordinates: 43.11045194 -75.25690914 NAD 1983 (Conus)			Sheet: 1 of 1		
					Drilling Contractor: NYEG			Logged By: DB		
Drilling Method: Remote Operated GeoProbe Rig			Boring Diameter: 2"							
Date: 11/9/17					Sample Type(s): Direct Push, 5' Sections			Ground Elevation:		
Time Start: 1343					Monitoring Well? TW-9			Boring Depth:		
Time Finish: 1416					Temporary/Permanent: Temp			Water Level:		
					Screened Interval: ~5 - 15' bgs			Riser Height: 1.18'		
Depth (ft)	Sample Depth (ft)	Blow Count (per 6 inches)	Recovery (ft)	PID Response (ppmv)	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)					Lab Sample ID (Depth)
1				0.0	0 - 5' - Brown with some gray and red coloration, coarse SAND and fill-like material					
2			4'	(0.0)						
3										
4										
5					5 - 6' - FILL-like material (as above)					Sample SB-24 for VOCs
6			4.25'	(18.2)						
7										
8										
9					6 - 8.5' - Brown, coarse SAND and medium sand					
10										
11										
12										
13					8.5 - 10' - Light brown, SILT, moist					
14										
15										
16										
17					10 - 11.5' - Light brown, SILT, moist					
18										
19										
20										
21					11.5 - 15' - Grayish brown, medium SAND and gravel, densely compacted					
22										
23										
24										
25					Boring terminated @ 15' bgs					
26										
27										
28										
bgs = below ground surface ▼ = observed water level					NOTES:					
These soil boring logs were prepared in conjunction with an environmental investigation. The data represented shall not be used for any other purpose (ex - geotechnical assessment, etc.).										



Soil Boring Log

Project #/Name: 17-217 / Former Mele Manufacturing			BORING ID: SB-25		
Client: City of Utica					
Site Location: 1712 Erie Street, Utica, NY					
Coordinates:	43.11046088	-75.25729696	NAD 1983 (Conus)	Sheet:	1 of 1
Drilling Contractor:	NYEG			Logged By:	DB
Drilling Method:	Remote Operated GeoProbe Rig			Boring Diameter:	2"
Sample Type(s):	Direct Push, 5' Sections			Ground Elevation:	
Monitoring Well? TW-10	Temporary/Permanent:	Temp	Diameter:	1" PVC	Boring Depth:
	Screened Interval:	~5 - 15' bgs	Riser Height:	1.60'	Water Level:

Depth (ft)	Sample Depth (ft)	Blow Count (per 6 inches)	Recovery (ft)	PID Response (ppmv)	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)	Lab Sample ID (Depth)
1					0 - 2' - Gray, CONCRETE / crushed stone	
2			4.75'	0.0	2 - 4' - Brown, coarse SAND and gravel	
3						
4				(1.1)	4 - 5' - Brown, coarse SAND and very coarse sand, moist	Sample SB-25 for VOCs
5					5 - 7' - Brown, coarse SAND and medium sand, trace very coarse sand, moist	
6						
7			4'	(0.0)	7 - 8' - Brown and dark brown, medium SAND, wet	
8				0.0	8 - 10' - Brown, fine SAND, some gravel, moist	
9						
10					10 - 11' - Brown, fine SAND, some gravel, moist	
11				(0.0)	11 - 15' - Brownish gray, fine SAND, some gravel, densely compacted, moist	
12			4.75'	0.0		
13						
14						
15					Boring terminated @ 15' bgs	
16						
17						
18						
19						
20						

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NOTES:

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Soil Boring Log

Project #/Name: 17-217 / Former Mele Manufacturing			BORING ID: SB-26		
Client: City of Utica					
Site Location: 1712 Erie Street, Utica, NY					
Coordinates:	43.11075494	-75.25714667	NAD 1983 (Conus)	Sheet:	1 of 1
Drilling Contractor:	NYEG			Logged By:	DB
Drilling Method:	Remote Operated GeoProbe Rig			Boring Diameter:	2"
Sample Type(s):	Direct Push, 5' Sections			Ground Elevation:	
Monitoring Well	TW-	Temporary/Permanent:	Temp	Diameter:	1" PVC
12		Screened Interval:	~4 - 14' bgs	Riser Height:	1.25'
				Water Level:	

Depth (ft)	Sample Depth (ft)	Blow Count (per 6 inches)	Recovery (ft)	PID Response (ppmv)	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)	Lab Sample ID (Depth)
1				0.0	0 - 0.25' Organic / Topsoil	
2			3.75'	(0.0)	0.25 - 2' - Coarse SAND, gravel, brick, and other fill-like material	
3					2 - 3' - Brown, medium SAND	
4					3 - 5' - Brown, fine SAND, trace angular gravel	
5					5 - 6' - Brown, fine SAND, trace medium sand, trace gravel	
6			4.25'	0.0	6 - 10' - Brown, fine SAND, trace very fine sand, wet	
7				(1.3)	(some orange coloration ~8 - 9' bgs)	Sample SB-26 for VOCs, SVOCs, and Metals
8						
9						
10					10 - 10.5' - Brown, fine SAND, trace very fine sand, wet (as above, slough?)	
11					10.5 - 15' - Brownish gray, very fine SAND and gravel, tightly compacted, dry	
12			4.5'	0.0		
13						
14						
15					Boring terminated @ 15' bgs	
16						
17						
18						
19						
20						

bgs = below ground surface
 ▼ = observed water level

NOTES:

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Soil Boring Log

Project #/Name:	17-217 / Former Mele Manufacturing	BORING ID: SB-27
Client:	City of Utica	
Site Location:	1712 Erie Street, Utica, NY	
Coordinates:	43.11056211 -75.25785155 NAD 1983 (Conus)	Sheet: 1 of 1
Drilling Contractor:	NYEG	Logged By: DB
Drilling Method:	Remote Operated GeoProbe Rig	Boring Diameter: 2"
Date:	11/10/17	Sample Type(s): Direct Push, 5' Sections
Time Start:	0908	Ground Elevation:
Time Finish:	0938	Monitoring Well? Temporary/Permanent: N/A Diameter: N/A Boring Depth:
		Screened Interval: N/A Riser Height: N/A Water Level:

Depth (ft)	Sample Depth (ft)	Blow Count (per 6 inches)	Recovery (ft)	PID Response (ppmv)	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)	Lab Sample ID (Depth)
1				0.0	0 - 1' - Brown / Gray, coarse SAND and gravel	
2			4'	(0.0)	1 - 3' - Gray, GRAVEL, some coarse sand	
3					3 - 5' - Brown, medium SAND, trace gravel	
4						
5					5 - 6' - Dark brown, medium SAND and coarse sand, trace gravel	
6			3.75'	0.0	6 - 6.5' - Red, BRICK material	
7				(0.0)	6.5 - 7.5' - Brown, medium SAND	
8					7.5 - 8.5' - Brown, medium SAND, some coarse sand, moist	Sample SB-27 for VOCs
9					8.5 - 10' - Brown, SILT, trace fine sand	
10					10 - 11' - Brown, medium SAND and gravel, densely compacted	
11				(0.0)	11 - 15' - Brown, medium SAND and gravel, densely compacted, wet	
12			5'	0.0		
13						
14						
15					Boring terminated @ 15' bgs	
16						
17						
18						
19						
20						

bgs = below ground surface
 ▼ = observed water level

NOTES:

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Soil Boring Log

Project #/Name:	17-217 / Former Mele Manufacturing	BORING ID: SB-28
Client:	City of Utica	
Site Location:	1712 Erie Street, Utica, NY	
Coordinates:	43.11089953 -75.25791783 NAD 1983 (Conus)	Sheet: 1 of 1
Drilling Contractor:	NYEG	Logged By: DB
Drilling Method:	Remote Operated GeoProbe Rig	Boring Diameter: 2"
Date:	11/10/17	Sample Type(s): Direct Push, 5' Sections
Time Start:	0940	Ground Elevation:
Time Finish:	1030	Monitoring Well? Temporary/Permanent: N/A Diameter: N/A Boring Depth:
		Screened Interval: N/A Riser Height: N/A Water Level:

Depth (ft)	Sample Depth (ft)	Blow Count (per 6 inches)	Recovery (ft)	PID Response (ppmv)	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)	Lab Sample ID (Depth)
1					0 - 0.5' - Organic / Topsoil	
2			3'	0.0	0.5 - 3.5' - Brown and gray, coarse SAND and gravel	
3				(0.0)		
4					3.5 - 5' - Brown, medium SAND, trace gravel	
5						
6				0.0	5 - 6.5' - BRICK and fill-like material	
7			4'		6.5 - 10' - Brown and dark brown, medium SAND, trace gravel	
8				(0.0)		Sample SB-28 for VOCs and SVOCs
9						
10						
11				0.0	10 - 11' - Brown and dark brown, medium SAND, trace gravel, moist	
12					11 - 13' - Brown, medium SAND and coarse sand, trace gravel, moist	
13			4.75'	(0.0)		
14					13 - 15' - Brown, very fine SAND, trace gravel, densely compacted, wet	
15						
16					Boring terminated @ 15' bgs	
17						
18						
19						
20						

bgs = below ground surface
 ▼ = observed water level

NOTES:

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 Soil Boring Log					Project #/Name: 17-217 / Former Mele Manufacturing			BORING ID: SB-29		
					Client: City of Utica					
					Site Location: 1712 Erie Street, Utica, NY					
					Coordinates: 43.1111955 -75.25819548 NAD 1983 (Conus)			Sheet: 1 of 1		
					Drilling Contractor: NYEG			Logged By: DB		
Drilling Method: Remote Operated GeoProbe Rig			Boring Diameter: 2"							
Date: 11/9/17					Sample Type(s): Direct Push, 5' Sections			Ground Elevation:		
Time Start: 1032					Monitoring Well?		Temporary/Permanent: N/A Diameter: N/A		Boring Depth:	
Time Finish: 1122							Screened Interval: N/A Riser Height: N/A		Water Level:	
Depth (ft)	Sample Depth (ft)	Blow Count (per 6 inches)	Recovery (ft)	PID Response (ppmv)	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)					Lab Sample ID (Depth)
1			3'	0.0 (0.0)	0 - 0.5' - Organic / Topsoil 0.5 - 2' - Dark Brown, medium SAND and coarse sand, some angular gravel					Sample SB-29 for VOCs, SVOCs, and Metals
2					2 - 3' - Red, BRICK material					
3					3 - 5' - Brown, fine SAND, trace silt, moist					
4										
5			4.5'	0.0 (0.0)	5 - 6' - Brown, fine SAND, trace silt, wet					
6					6 - 8' - Light tan, fine SAND, some gravel, densely compacted, wet					
7					8 - 10' - Tan with some slight redness, fine SAND and gravel, densely compacted					
8										
9										
10					Boring terminated / refusal @ ~10' bgs					
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
bgs = below ground surface ▼ = observed water level					NOTES:					
These soil boring logs were prepared in conjunction with an environmental investigation. The data represented shall not be used for any other purpose (ex - geotechnical assessment, etc.).										

 Soil Boring Log					Project #/Name: 17-217 / Former Mele Manufacturing			BORING ID: SB-30		
					Client: City of Utica					
					Site Location: 1712 Erie Street, Utica, NY					
					Coordinates: 43.11110807 -75.25851381 NAD 1983 (Conus)			Sheet: 1 of 1		
					Drilling Contractor: NYEG			Logged By: DB		
Drilling Method: Remote Operated GeoProbe Rig			Boring Diameter: 2"							
Date: 11/9/17					Sample Type(s): Direct Push, 5' Sections			Ground Elevation:		
Time Start: 0920					Monitoring Well?		Temporary/Permanent: N/A Diameter: N/A		Boring Depth:	
Time Finish: 0944							Screened Interval: N/A Riser Height: N/A		Water Level:	
Depth (ft)	Sample Depth (ft)	Blow Count (per 6 inches)	Recovery (ft)	PID Response (ppmv)	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)					Lab Sample ID (Depth)
1			2.5'	0.0	0 - 0.5' - Organic / Topsoil					
2				(0.0)	0.5 - 2.5' - Brown, coarse SAND and gravel					
3				0.0	2.5 - 5' - Light brown, coarse SAND, some medium sand, some gravel					
4										
5			3'	(0.0)	5 - 6' - Brown, coarse SAND, some medium sand, some gravel					Sample SB-30 for VOCs, SVOCs, and Metals
6				0.0	6 - 7' - Red, BRICK material					
7				0.0	7 - 9.5' - Black, coarse SAND and gravel, moist					
8				(0.0)						
9										
10					Refusal @ 9.5' bgs					
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
bgs = below ground surface ▼ = observed water level					NOTES:					
These soil boring logs were prepared in conjunction with an environmental investigation. The data represented shall not be used for any other purpose (ex - geotechnical assessment, etc.).										

APPENDIX C

GROUNDWATER SAMPLING FORMS

Well ID:

SB-16/TW-5

Low Flow Groundwater Sample Collection Record

Project Number:

17-217

Date:

11/13/17

Client:

Ulrica

Start Time:

0744

Site Location:

1712 Erie St, Ulrica, NY

End Time:

Weather Conditions:

Low 30s °F, Snow

Collector(s):

Drew Bentner

Well Construction and Water Level Measurement:

Height of Riser Above Ground Level:

1.30'

Well Casing Diameter / Material:

1" PVC

Depth to Groundwater (from top of Riser):

10.06'

Total Well Length (from top of Riser):

Minimum System Purge Volume:

Well Purge Method:

Low Flow Per Pump

Sample Collection Method:

Time (24hr clock)	Volume Removed (gallons)	Flow Rate (mL/min)	Drawdown (feet)	Observations (odor or sheen)
0752	Begin Purge			
0804	ongoing purge	240		
0810	Purge stopped (slow ramp)		4.35'	~2 gals removed
1535			Down to 10.11'	
1542	COLLECTING SAMPLE			Very Turbid

(continued on back)

Well ID:

SB-6/10-1p

Low Flow Groundwater Sample Collection Record

Project Number:

17-217

Date:

11/13/17

Client:

Utica

Start Time:

0824p

Site Location:

1712 Erie St, Utica, NY

End Time:

Weather Conditions:

Low 30°F, Snow

Collector(s):

Dan Brasher

Well Construction and Water Level Measurement:

Height of Riser Above Ground Level:

1.30'

Well Casing Diameter / Material:

1" PVC

Depth to Groundwater (from top of Riser):

2.12'

Total Well Length (from top of Riser):

Minimum System Purge Volume:

Well Purge Method:

Low Flow Per Pump

Sample Collection Method:

Low Flow Per Pump

Time (24hr clock)	Volume Removed (gallons)	Flow Rate (mL/min)	Drawdown (feet)	Observations (odor or sheen)
0831	Begin Purge			
0840	Ongoing Purge	320		
0845	Increasing flow rate		→ 0.00 !!	
0851	Ongoing Purge	410		
0903	3+ gallons		Hacking up Humica	

(continued on back)

Well ID:

58-20/20-7

Low Flow Groundwater Sample Collection Record

Project Number:

17-217

Date:

11/13/17

Client:

Utica

Start Time:

1005

Site Location:

1712 Erie St, Utica, NY

End Time:

Weather Conditions:

Low 30s °F, Snow

Collector(s):

Drew Bratner

Well Construction and Water Level Measurement:

Height of Riser Above Ground Level:

0.90'Well Casing Diameter / Material: 1" PVC

Depth to Groundwater (from top of Riser):

3.95'

Total Well Length (from top of Riser):

Minimum System Purge Volume: _____

Well Purge Method:

Low Flow Per Pump

Sample Collection Method:

Low Flow Per Pump

Time (24hr clock)	Volume Removed (gallons)	Flow Rate (mL/min)	Drawdown (feet)	Observations (odor or sheen)
1010	Begin Purge			
1016		380		
1021	Slowing flow rate to allow recovery		Drawn to 6.08' (Down 2.13')	
1024	~1.5 gals	270		
1036	~2 gals	Slowing flow rate		
1039		190		ODOR
	Hooking up flowmeter			

(continued on back)

Well ID: SB-23/TW-8

Low Flow Groundwater Sample Collection Record

Project Number: 17-217 Date: 11/13/17
Client: Utica Start Time: ~1355
Site Location: 1712 Erie St, Utica, NY End Time: _____
Weather Conditions: Md to Low 30°F Collector(s): Drew Bazzmer

Well Construction and Water Level Measurement:

Height of Riser Above Ground Level:

1.40'Well Casing Diameter / Material: 1" PVC

Depth to Groundwater (from top of Riser):

7.70'

Total Well Length (from top of Riser): _____

Minimum System Purge Volume: _____

Well Purge Method: Low-Flow Per PumpSample Collection Method: Low-Flow Per Pump

Time (24hr clock)	Volume Removed (gallons)	Flow Rate (mL/min)	Drawdown (feet)	Observations (odor or sheen)
1403	Begin Purge			Turbid
1409		270		
1421	~1.5 gal +			less turbid
	hooking up timer and slowing flow rate			

(continued on back)

Well ID: SB-24/rw-9

Low Flow Groundwater Sample Collection Record

Project Number: 17-217 Date: 11/13/17
 Client: Utica Start Time: 2/11/18
 Site Location: 1712 Erie St, Utica, NY End Time: _____
 Weather Conditions: Low 30s °F, Snow Collector(s): Drew Brenner

Well Construction and Water Level Measurement:

Height of Riser Above Ground Level:

1.18'Well Casing Diameter / Material: 1" PVC

Depth to Groundwater (from top of Riser):

7.90'

Total Well Length (from top of Riser): _____

Minimum System Purge Volume: _____

Well Purge Method: Low Flow Per PumpSample Collection Method: Low Flow Per Pump

Time (24hr clock)	Volume Removed (gallons)	Flow Rate (mL/min)	Drawdown (feet)	Observations (odor or sheen)
1124	Begin Purge	200		
1131	~1 gal	200		
1138	~1.5 gal	Hooking up hoses and slowing flow rate		

(continued on back)

Well ID: SB-25/TW-10

Low Flow Groundwater Sample Collection Record

Project Number: 17-217 Date: 11/13/17
Client: Utica Start Time: ~1205
Site Location: 1712 Erie St, Utica, NY End Time: _____
Weather Conditions: Low 30°/Mid 30°F Collector(s): David Brenner

Well Construction and Water Level Measurement:

Height of Riser Above Ground Level:

1.60'

Well Casing Diameter / Material: 1" PVC

Depth to Groundwater (from top of Riser):

8.15'

Total Well Length (from top of Riser):



Minimum System Purge Volume: _____

Well Purge Method: Low-Flow Per Pump

Sample Collection Method: Low-Flow Per Pump

Time (24hr clock)	Volume Removed (gallons)	Flow Rate (mL/min)	Drawdown (feet)	Observations (odor or sheen)
1211	Begin Purge			
1218		270		Not Turbid
1223	1+ gal Flaking up H ₂ O			

(continued on back)

Well ID: SB-11/TW-11

Low Flow Groundwater Sample Collection Record

Project Number: 17-217 Date: 11/13/17
Client: Utica Start Time: ~1248
Site Location: 172 Erie St, Utica, NY End Time: _____
Weather Conditions: Low-Mid 30s°F Collector(s): Drew Brantner

Well Construction and Water Level Measurement:

Height of Riser Above Ground Level: 1.45'

Well Casing Diameter / Material: 1" PVC

Depth to Groundwater (from top of Riser): 7.60'

Total Well Length (from top of Riser): _____

Minimum System Purge Volume: _____

Well Purge Method: Low Flow Per Pump

Sample Collection Method: Low Flow Per Pump

Time (24hr clock)	Volume Removed (gallons)	Flow Rate (mL/min)	Drawdown (feet)	Observations (odor or sheen)
1255	Begin Purge			
1302		2600		
1307	~1 gal +			
1311			0.05'	
1318	~2 gal			
	Hooking up Hummer and starting flow rate			

(continued on back)

Well ID: SB-26/TW-12

Low Flow Groundwater Sample Collection Record

Project Number: 17-217 Date: 11/13/17
Client: Ulrica Start Time: ~ 0940
Site Location: 1712 Erie St, Ulrica, NY End Time: _____
Weather Conditions: Low 30s °F, Snow Collector(s): Dr. B. B. B.

Well Construction and Water Level Measurement:

Height of Riser Above Ground Level:

1.25'Well Casing Diameter / Material: 1" PVC

Depth to Groundwater (from top of Riser):

6.44'

Total Well Length (from top of Riser): _____

Minimum System Purge Volume: _____

Well Purge Method: Low Flow Peristaltic PumpSample Collection Method: Low Flow Per Pump

Time (24hr clock)	Volume Removed (gallons)	Flow Rate (mL/min)	Drawdown (feet)	Observations (odor or sheen)
0954	Begin Purge	320		
1001	Stopping Purge to allow for Recovery		Down to 11.10'	
1600			Down to 7.00'	
1606	COLLECTING SAMPLE		Very Turbid	

(continued on back)

APPENDIX D

SOIL ANALYTICAL LABORATORY REPORT

Laboratory Report SC41491

AECC Environmental Consulting
6308 Fly Road
East Syracuse, NY 13057
Attn: Rich McKenna

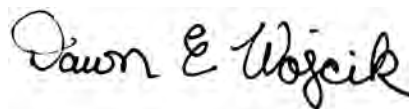
Project: 1712 Erie St - Utica, NY
Project #: 17-217

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87936
Maine # MA138
New Hampshire # 2972/2538
New Jersey # MA011
New York # 11393
Pennsylvania # 68-04426/68-02924
Rhode Island # LAO00348
USDA # P330-15-00375
Vermont # VT-11393



Authorized by:
Dawn Wojcik
Laboratory Director



Eurofins Spectrum Analytical holds primary NELAC certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 117 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Spectrum Analytical, Inc.

Eurofins Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Eurofins Spectrum Analytical, Inc. is currently accredited for the specific method or analyte indicated. Please refer to our Quality web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Eurofins Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (PA-68-04426).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Sample Summary

Work Order: SC41491
Project: 1712 Erie St - Utica, NY
Project Number: 17-217

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SC41491-01	SB-30	Soil	09-Nov-17 09:44	10-Nov-17 13:42
SC41491-02	SB-7	Soil	09-Nov-17 10:30	10-Nov-17 13:42
SC41491-03	SB-29	Soil	09-Nov-17 11:01	10-Nov-17 13:42
SC41491-04	SB-5	Soil	09-Nov-17 11:28	10-Nov-17 13:42
SC41491-05	SB-26	Soil	09-Nov-17 11:54	10-Nov-17 13:42
SC41491-06	SB-20	Soil	09-Nov-17 12:35	10-Nov-17 13:42
SC41491-07	SB-21	Soil	09-Nov-17 13:00	10-Nov-17 13:42
SC41491-08	SB-22	Soil	09-Nov-17 13:24	10-Nov-17 13:42
SC41491-09	SB-24	Soil	09-Nov-17 14:06	10-Nov-17 13:42
SC41491-10	SB-25	Soil	09-Nov-17 14:44	10-Nov-17 13:42
SC41491-11	SB-10	Soil	09-Nov-17 15:15	10-Nov-17 13:42
SC41491-12	SB-27	Soil	10-Nov-17 09:38	10-Nov-17 13:42
SC41491-13	SB-28	Soil	10-Nov-17 10:04	10-Nov-17 13:42
SC41491-14	SB-11	Soil	10-Nov-17 10:25	10-Nov-17 13:42
SC41491-15	SB-23	Soil	10-Nov-17 11:10	10-Nov-17 13:42
SC41491-16	Trip Blank	Methanol/Deionized Water	10-Nov-17 00:00	10-Nov-17 13:42

CASE NARRATIVE:

Data has been reported to the RDL. This report includes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the detection limit are reported as "<" (less than) the detection limit in this report.

The samples were received 3.1 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

VOA vials preserved with deionized water were received frozen upon custody transfer to laboratory representative.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group. If method or program required MS/MSD/Dup were not performed, sufficient sample was not provided to the laboratory.

All VOC soils samples submitted and analyzed in methanol will have a minimum dilution factor of 50. This is the minimum amount of solvent allowed on the instrumentation without causing interference. Soils are run on a manual load instrument. 100ug of sample (MEOH) is spiked into 5ml DI water along with the surrogate and added directly onto the instrument. Additional dilution factors may be required to keep analyte concentration within instrument calibration range.

Method SW846 5035A is designed to use on samples containing low levels of VOCs, ranging from 0.5 to 200 ug/Kg. Target analytes that are less responsive to purge and trap may be present at concentrations over 200ug/Kg but may not be reportable in the methanol preserved vial (SW846 5030). This is the result of the inherent dilution factor required for the methanol preservation.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW7471B

BZ40382-MS

This parameter is outside laboratory ms/msd specified recovery limits.

Mercury

SW846 8260C

Calibration:

1710003

Analyte quantified by quadratic equation type calibration.

1,4-Dioxane
2-Hexanone (MBK)
Naphthalene
trans-1,4-Dichloro-2-butene

SW846 8260C

Calibration:

1710003

This affected the following samples:

1719306-BLK1
1719306-BS1
1719306-BSD1
1719357-BLK1
1719357-BS1
1719357-BSD1
1719679-BLK1
1719679-BS1
1719679-BSD1
S708708-ICV1
S710089-CCV1
S710112-CCV1
S710298-CCV1
SB-10
SB-11
SB-20
SB-21
SB-22
SB-23
SB-25
SB-26
SB-27
SB-28
SB-29
SB-30
SB-5
SB-7
Trip Blank

1711038

Calibration:

1711038

Analyte quantified by quadratic equation type calibration.

1,1-Dichloropropene
1,2,3-Trichlorobenzene
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,2-Dibromo-3-chloropropane
1,3,5-Trichlorobenzene
1,3,5-Trimethylbenzene
1,4-Dioxane
2-Hexanone (MBK)
4-Chlorotoluene
4-Isopropyltoluene
4-Methyl-2-pentanone (MIBK)
Bromodichloromethane
Bromoform
Bromomethane
cis-1,3-Dichloropropene
Dibromochloromethane
Di-isopropyl ether
Ethyl tert-butyl ether
Ethylbenzene
Isopropylbenzene
m,p-Xylene
Methyl tert-butyl ether
Naphthalene
n-Butylbenzene
n-Propylbenzene
o-Xylene
sec-Butylbenzene
Styrene
tert-Butylbenzene
trans-1,3-Dichloropropene
trans-1,4-Dichloro-2-butene

This affected the following samples:

S710171-ICV1

Laboratory Control Samples:

1719306 BS/BSD

Acetone percent recoveries (158/116) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

SB-22
SB-26
SB-30
SB-7

Chloromethane percent recoveries (64/85) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SB-22
SB-26
SB-30
SB-7

SW846 8260C

Laboratory Control Samples:

1719306 BS/BSD

trans-1,4-Dichloro-2-butene percent recoveries (75/65) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SB-22
SB-26
SB-30
SB-7

1719357 BS/BSD

1,4-Dioxane percent recoveries (66/70) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SB-10
SB-11
SB-20
SB-21
SB-23
SB-25
SB-27
SB-28
SB-5
Trip Blank

2-Hexanone (MBK) percent recoveries (76/64) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SB-10
SB-11
SB-20
SB-21
SB-23
SB-25
SB-27
SB-28
SB-5
Trip Blank

Tetrahydrofuran percent recoveries (75/63) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SB-10
SB-11
SB-20
SB-21
SB-23
SB-25
SB-27
SB-28
SB-5
Trip Blank

SW846 8260C

Laboratory Control Samples:

1719357 BS/BSD

trans-1,4-Dichloro-2-butene percent recoveries (66/66) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SB-10
SB-11
SB-20
SB-21
SB-23
SB-25
SB-27
SB-28
SB-5
Trip Blank

1719513 BSD

1,1-Dichloroethene RPD 45% (30%) is outside individual acceptance criteria.

Acetone RPD 32% (30%) is outside individual acceptance criteria.

Carbon disulfide RPD 36% (30%) is outside individual acceptance criteria.

Ethyl ether RPD 44% (30%) is outside individual acceptance criteria.

1719678 BS/BSD

1,1,2-Trichlorotrifluoroethane (Freon 113) percent recoveries (65/84) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SB-7

Acrylonitrile percent recoveries (69/91) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SB-7

Methylene chloride percent recoveries (61/78) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SB-7

1719678 BSD

Carbon disulfide RPD 37% (30%) is outside individual acceptance criteria.

1719679 BS/BSD

1,2-Dibromo-3-chloropropane percent recoveries (68/72) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SB-29

1,4-Dioxane percent recoveries (68/61) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SB-29

2-Hexanone (MBK) percent recoveries (69/74) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SB-29

Laboratory Control Samples:1719679 BS/BSD

4-Methyl-2-pentanone (MIBK) percent recoveries (68/82) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SB-29

Tert-Butanol / butyl alcohol percent recoveries (66/71) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SB-29

Tetrahydrofuran percent recoveries (63/64) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SB-29

trans-1,4-Dichloro-2-butene percent recoveries (62/68) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SB-29

Samples:S710089-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

1,2-Dibromo-3-chloropropane (-22.7%)

4-Methyl-2-pentanone (MIBK) (-20.2%)

Bromoform (-22.7%)

Methyl tert-butyl ether (-20.2%)

Tetrahydrofuran (-23.6%)

Trichlorofluoromethane (Freon 11) (29.3%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

1,4-Dioxane (-25.8%)

trans-1,4-Dichloro-2-butene (-35.2%)

This affected the following samples:

1719306-BLK1

1719306-BS1

1719306-BSD1

SB-22

SB-26

SB-30

SB-7

S710112-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

1,2-Dibromo-3-chloropropane (-25.5%)

4-Methyl-2-pentanone (MIBK) (-27.4%)

Tetrahydrofuran (-36.8%)

Trichlorofluoromethane (Freon 11) (28.2%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

1,4-Dioxane (-29.7%)

2-Hexanone (MBK) (-36.4%)

trans-1,4-Dichloro-2-butene (-34.2%)

SW846 8260C

Samples:

S710112-CCV1

This affected the following samples:

1719357-BLK1
1719357-BS1
1719357-BSD1
SB-10
SB-11
SB-20
SB-21
SB-23
SB-25
SB-27
SB-28
SB-5
Trip Blank

S710150-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

2,2-Dichloropropane (28.0%)
Acrylonitrile (29.7%)

This affected the following samples:

1719431-BLK1
1719431-BS1
1719431-BSD1
SB-26
Trip Blank

S710205-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

2,2-Dichloropropane (26.2%)
Carbon disulfide (25.6%)

This affected the following samples:

1719513-BLK1
1719513-BS1
1719513-BSD1
SB-10
SB-24
SB-26

S710298-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

1,2-Dibromo-3-chloropropane (-31.8%)
4-Methyl-2-pentanone (MIBK) (-31.8%)
Acrylonitrile (-27.9%)
Carbon disulfide (-20.6%)
Di-isopropyl ether (-22.2%)
Ethyl tert-butyl ether (-27.5%)
Methyl tert-butyl ether (-29.5%)
Tert-Butanol / butyl alcohol (-34.0%)
Tetrahydrofuran (-37.0%)
trans-1,3-Dichloropropene (-20.3%)

SW846 8260C

Samples:

S710298-CCV1

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

1,4-Dioxane (-31.5%)
2-Hexanone (MBK) (-31.0%)
Acetone (-25.2%)
Naphthalene (-29.5%)
trans-1,4-Dichloro-2-butene (-37.8%)

This affected the following samples:

1719679-BLK1
1719679-BS1
1719679-BSD1
SB-29

S710300-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

2,2-Dichloropropane (28.8%)
Bromobenzene (26.8%)
Bromochloromethane (23.4%)
Carbon disulfide (-24.8%)
Hexachlorobutadiene (28.1%)
Methylene chloride (-21.5%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

trans-1,4-Dichloro-2-butene (23.2%)

This affected the following samples:

1719678-BLK1
1719678-BS1
1719678-BSD1
SB-7

SC41491-01 *SB-30*

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates with three required by program methods.

1,2-Dichloroethane-d4

SC41491-02 *SB-7*

OR

Naphthalene

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates with three required by program methods.

1,2-Dichloroethane-d4

SC41491-02RE1 *SB-7*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SC41491-04 *SB-5*

SW846 8260C**Samples:**

SC41491-04 *SB-5*

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates with three required by program methods.

1,2-Dichloroethane-d4

SC41491-05RE1 *SB-26*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SC41491-05RE2 *SB-26*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SC41491-06RE1 *SB-20*

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates with three required by program methods.

1,2-Dichloroethane-d4

SC41491-07RE1 *SB-21*

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates with three required by program methods.

1,2-Dichloroethane-d4

SC41491-09 *SB-24*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SC41491-10 *SB-25*

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates with three required by program methods.

1,2-Dichloroethane-d4

SC41491-11 *SB-10*

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates with three required by program methods.

1,2-Dichloroethane-d4

SC41491-11RE1 *SB-10*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SC41491-12 *SB-27*

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates with three required by program methods.

1,2-Dichloroethane-d4

SC41491-13 *SB-28*

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates with three required by program methods.

1,2-Dichloroethane-d4

SC41491-14 *SB-11*

SW846 8260C

Samples:

SC41491-14 *SB-11*

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates with three required by program methods.

1,2-Dichloroethane-d4

SC41491-15 *SB-23*

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates with three required by program methods.

1,2-Dichloroethane-d4

SC41491-16 *Trip Blank*

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates with three required by program methods.

1,2-Dichloroethane-d4

Sample Acceptance Check Form

Client: AECC Environmental Consulting
Project: 1712 Erie St - Utica, NY / 17-217
Work Order: SC41491
Sample(s) received on: 11/10/2017

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	<u>Yes</u>	<u>No</u>	<u>N/A</u>
Were custody seals present?	☐	☒	☐
Were custody seals intact?	☐	☐	☒
Were samples received at a temperature of $\leq 6^{\circ}\text{C}$?	☒	☐	☐
Were samples cooled on ice upon transfer to laboratory representative?	☒	☐	☐
Were sample containers received intact?	☒	☐	☐
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☒	☐	☐
Were samples accompanied by a Chain of Custody document?	☒	☐	☐
Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☒	☐	☐
Did sample container labels agree with Chain of Custody document?	☒	☐	☐
Were samples received within method-specific holding times?	☒	☐	☐

Summary of Hits

Lab ID: SC41491-01

Client ID: SB-30

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	23.1		0.85	mg/kg	SW6010C
Barium	148		0.42	mg/kg	SW6010C
Cadmium	1.03		0.42	mg/kg	SW6010C
Chromium	11.4		0.42	mg/kg	SW6010C
Lead	91.0		0.42	mg/kg	SW6010C
Mercury	0.08		0.03	mg/kg	SW7471B
Anthracene	690		160	ug/kg	SW8270D (SIM)
Benz(a)anthracene	21000		1600	ug/kg	SW8270D (SIM)
Benzo(a)pyrene	19000		1600	ug/kg	SW8270D (SIM)
Benzo(b)fluoranthene	25000		1600	ug/kg	SW8270D (SIM)
Benzo(ghi)perylene	21000		1600	ug/kg	SW8270D (SIM)
Benzo(k)fluoranthene	28000		1600	ug/kg	SW8270D (SIM)
Chrysene	28000		1600	ug/kg	SW8270D (SIM)
Dibenz(a,h)anthracene	4700		160	ug/kg	SW8270D (SIM)
Fluoranthene	19000		1600	ug/kg	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	25000		1600	ug/kg	SW8270D (SIM)
Phenanthrene	2500		160	ug/kg	SW8270D (SIM)
Pyrene	24000		1600	ug/kg	SW8270D (SIM)
cis-1,2-Dichloroethene	7.37		6.12	µg/kg	SW846 8260C
Trichloroethene	66.8		6.12	µg/kg	SW846 8260C

Lab ID: SC41491-02

Client ID: SB-7

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	69.4		0.85	mg/kg	SW6010C
Barium	99.5		0.43	mg/kg	SW6010C
Cadmium	1.13		0.43	mg/kg	SW6010C
Chromium	20.4		0.43	mg/kg	SW6010C
Lead	233		4.3	mg/kg	SW6010C
Silver	< 0.43		0.43	mg/kg	SW6010C
Mercury	0.25		0.03	mg/kg	SW7471B
2-Methylnaphthalene	560		170	ug/kg	SW8270D (SIM)
Acenaphthene	400		170	ug/kg	SW8270D (SIM)
Acenaphthylene	190		170	ug/kg	SW8270D (SIM)
Anthracene	2400		170	ug/kg	SW8270D (SIM)
Benz(a)anthracene	17000		1700	ug/kg	SW8270D (SIM)
Benzo(a)pyrene	13000		1700	ug/kg	SW8270D (SIM)
Benzo(b)fluoranthene	15000		1700	ug/kg	SW8270D (SIM)
Benzo(ghi)perylene	11000		1700	ug/kg	SW8270D (SIM)
Benzo(k)fluoranthene	17000		1700	ug/kg	SW8270D (SIM)
Chrysene	20000		1700	ug/kg	SW8270D (SIM)
Dibenz(a,h)anthracene	2700		170	ug/kg	SW8270D (SIM)
Fluoranthene	24000		1700	ug/kg	SW8270D (SIM)
Fluorene	420		170	ug/kg	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	14000		1700	ug/kg	SW8270D (SIM)
Naphthalene	1100		170	ug/kg	SW8270D (SIM)
Phenanthrene	9500		1700	ug/kg	SW8270D (SIM)
Pyrene	23000		1700	ug/kg	SW8270D (SIM)
1,2,4-Trimethylbenzene	134		6.55	µg/kg	SW846 8260C
1,3,5-Trimethylbenzene	37.8		6.55	µg/kg	SW846 8260C
2-Butanone (MEK)	13.9		13.1	µg/kg	SW846 8260C
4-Isopropyltoluene	11.5		6.55	µg/kg	SW846 8260C
Acetone	81.9		65.5	µg/kg	SW846 8260C
cis-1,2-Dichloroethene	4.56	J	6.55	µg/kg	SW846 8260C
Ethylbenzene	85.6		6.55	µg/kg	SW846 8260C
Isopropylbenzene	28.7		6.55	µg/kg	SW846 8260C
m,p-Xylene	74.5		13.1	µg/kg	SW846 8260C
Naphthalene	OR		6.55	µg/kg	SW846 8260C
n-Butylbenzene	7.55		6.55	µg/kg	SW846 8260C
n-Propylbenzene	54.8		6.55	µg/kg	SW846 8260C
o-Xylene	53.0		6.55	µg/kg	SW846 8260C
sec-Butylbenzene	3.63	J	6.55	µg/kg	SW846 8260C
Toluene	13.8		6.55	µg/kg	SW846 8260C
Trichloroethene	6.09	J	6.55	µg/kg	SW846 8260C

This laboratory report is not valid without an authorized signature on the cover page.

Lab ID: SC41491-02RE1

Client ID: SB-7

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,2,4-Trimethylbenzene	1310	D	812	µg/kg	SW846 8260C
1,3,5-Trimethylbenzene	804	J, D	812	µg/kg	SW846 8260C
4-Isopropyltoluene	560	J, D	812	µg/kg	SW846 8260C
cis-1,2-Dichloroethene	519	J, D	812	µg/kg	SW846 8260C
Ethylbenzene	682	J, D	812	µg/kg	SW846 8260C
Isopropylbenzene	406	J, D	812	µg/kg	SW846 8260C
m,p-Xylene	787	J, D	1620	µg/kg	SW846 8260C
Naphthalene	52200	D	812	µg/kg	SW846 8260C
n-Butylbenzene	755	J, D	812	µg/kg	SW846 8260C
n-Propylbenzene	885	D	812	µg/kg	SW846 8260C
o-Xylene	528	J, D	812	µg/kg	SW846 8260C
sec-Butylbenzene	617	J, D	812	µg/kg	SW846 8260C
tert-Butylbenzene	609	J, D	812	µg/kg	SW846 8260C
Trichloroethene	390	J, D	812	µg/kg	SW846 8260C

Lab ID: SC41491-03

Client ID: SB-29

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	11.5		0.71	mg/kg	SW6010C
Barium	53.7		0.35	mg/kg	SW6010C
Cadmium	0.41		0.35	mg/kg	SW6010C
Chromium	13.3		0.35	mg/kg	SW6010C
Lead	14.7		0.35	mg/kg	SW6010C
Benzo(ghi)perylene	1300		150	ug/kg	SW8270D (SIM)
Dibenz(a,h)anthracene	170		150	ug/kg	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	1000		150	ug/kg	SW8270D (SIM)

Lab ID: SC41491-04

Client ID: SB-5

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	5.46		0.87	mg/kg	SW6010C
Barium	49.1		0.43	mg/kg	SW6010C
Cadmium	0.46		0.43	mg/kg	SW6010C
Chromium	11.9		0.43	mg/kg	SW6010C
Lead	46.0		0.43	mg/kg	SW6010C
Mercury	0.10		0.03	mg/kg	SW7471B

Lab ID: SC41491-05

Client ID: SB-26

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	5.83		0.78	mg/kg	SW6010C
Barium	33.9		0.39	mg/kg	SW6010C
Chromium	10.8		0.39	mg/kg	SW6010C
Lead	21.8		0.39	mg/kg	SW6010C
cis-1,2-Dichloroethene	5.35		5.06	µg/kg	SW846 8260C
Trichloroethene	408	E	5.06	µg/kg	SW846 8260C

Lab ID: SC41491-05RE1

Client ID: SB-26

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
cis-1,2-Dichloroethene	372	D	123	µg/kg	SW846 8260C
Methyl tert-butyl ether	51.6	J, D	123	µg/kg	SW846 8260C
Tetrachloroethene	131	D	123	µg/kg	SW846 8260C
Trichloroethene	32900	D, E	123	µg/kg	SW846 8260C

Lab ID: SC41491-05RE2

Client ID: SB-26

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
cis-1,2-Dichloroethene	571	J, D	614	µg/kg	SW846 8260C
Trichloroethene	43200	D	614	µg/kg	SW846 8260C

Lab ID: SC41491-06

Client ID: SB-20

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	9.14		0.87	mg/kg	SW6010C
Barium	82.7		0.43	mg/kg	SW6010C
Cadmium	0.78		0.43	mg/kg	SW6010C
Chromium	16.7		0.43	mg/kg	SW6010C
Lead	255		4.3	mg/kg	SW6010C
Mercury	0.55		0.03	mg/kg	SW7471B
Acenaphthene	170		160	ug/kg	SW8270D (SIM)
Anthracene	420		160	ug/kg	SW8270D (SIM)
Benz(a)anthracene	590		160	ug/kg	SW8270D (SIM)
Benzo(a)pyrene	520		160	ug/kg	SW8270D (SIM)
Benzo(b)fluoranthene	420		160	ug/kg	SW8270D (SIM)
Benzo(ghi)perylene	300		160	ug/kg	SW8270D (SIM)
Benzo(k)fluoranthene	490		160	ug/kg	SW8270D (SIM)
Chrysene	660		160	ug/kg	SW8270D (SIM)
Fluoranthene	1300		160	ug/kg	SW8270D (SIM)
Fluorene	180		160	ug/kg	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	390		160	ug/kg	SW8270D (SIM)
Phenanthrene	1100		160	ug/kg	SW8270D (SIM)
Pyrene	1100		160	ug/kg	SW8270D (SIM)

Lab ID: SC41491-06RE1

Client ID: SB-20

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acetone	33.7	J	52.6	µg/kg	SW846 8260C
cis-1,2-Dichloroethene	20.5		5.26	µg/kg	SW846 8260C
Trichloroethene	2.52	J	5.26	µg/kg	SW846 8260C
Vinyl chloride	5.18	J	5.26	µg/kg	SW846 8260C

Lab ID: SC41491-07

Client ID: SB-21

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	10.2		0.88	mg/kg	SW6010C
Barium	65.0		0.44	mg/kg	SW6010C
Cadmium	0.66		0.44	mg/kg	SW6010C
Chromium	14.5		0.44	mg/kg	SW6010C
Lead	311		4.4	mg/kg	SW6010C
Mercury	0.25		0.03	mg/kg	SW7471B

Lab ID: SC41491-07RE1

Client ID: SB-21

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acetone	53.0	J	61.6	µg/kg	SW846 8260C
cis-1,2-Dichloroethene	12.6		6.16	µg/kg	SW846 8260C
trans-1,2-Dichloroethene	7.35		6.16	µg/kg	SW846 8260C
Trichloroethene	2.15	J	6.16	µg/kg	SW846 8260C
Vinyl chloride	28.6		6.16	µg/kg	SW846 8260C

Lab ID: SC41491-08

Client ID: SB-22

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	6.87		0.82	mg/kg	SW6010C
Barium	38.7		0.41	mg/kg	SW6010C
Chromium	12.8		0.41	mg/kg	SW6010C
Lead	17.3		0.41	mg/kg	SW6010C
Mercury	0.03		0.03	mg/kg	SW7471B
Anthracene	560		150	ug/kg	SW8270D (SIM)
Benz(a)anthracene	1200		150	ug/kg	SW8270D (SIM)
Benzo(a)pyrene	1200		150	ug/kg	SW8270D (SIM)
Benzo(b)fluoranthene	890		150	ug/kg	SW8270D (SIM)
Benzo(ghi)perylene	800		150	ug/kg	SW8270D (SIM)
Benzo(k)fluoranthene	1100		150	ug/kg	SW8270D (SIM)
Chrysene	1200		150	ug/kg	SW8270D (SIM)
Fluoranthene	2100		150	ug/kg	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	970		150	ug/kg	SW8270D (SIM)
Phenanthrene	1400		150	ug/kg	SW8270D (SIM)
Pyrene	2000		150	ug/kg	SW8270D (SIM)
1,1,1-Trichloroethane	3.63	J	4.83	µg/kg	SW846 8260C
Tetrachloroethene	8.28		4.83	µg/kg	SW846 8260C
Toluene	40.0		4.83	µg/kg	SW846 8260C
Trichloroethene	136		4.83	µg/kg	SW846 8260C

Lab ID: SC41491-09

Client ID: SB-24

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
cis-1,2-Dichloroethene	430	D	115	µg/kg	SW846 8260C
Trichloroethene	1550	D	115	µg/kg	SW846 8260C

Lab ID: SC41491-10**Client ID:** SB-25

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
cis-1,2-Dichloroethene	8.97		5.12	µg/kg	SW846 8260C
Trichloroethene	25.0		5.12	µg/kg	SW846 8260C

Lab ID: SC41491-11**Client ID:** SB-10

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,1,1-Trichloroethane	2.10	J	4.75	µg/kg	SW846 8260C
cis-1,2-Dichloroethene	425	E	4.75	µg/kg	SW846 8260C
Trichloroethene	231	E	4.75	µg/kg	SW846 8260C
Vinyl chloride	22.8		4.75	µg/kg	SW846 8260C

Lab ID: SC41491-11RE1**Client ID:** SB-10

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
cis-1,2-Dichloroethene	503	D	124	µg/kg	SW846 8260C
Trichloroethene	552	D	124	µg/kg	SW846 8260C

Lab ID: SC41491-15**Client ID:** SB-23

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	5.75		0.79	mg/kg	SW6010C
Barium	58.1		0.40	mg/kg	SW6010C
Chromium	11.0		0.40	mg/kg	SW6010C
Lead	10.1		0.40	mg/kg	SW6010C
Fluoranthene	220		150	ug/kg	SW8270D (SIM)
Phenanthrene	190		150	ug/kg	SW8270D (SIM)
Pyrene	200		150	ug/kg	SW8270D (SIM)
cis-1,2-Dichloroethene	8.57		5.01	µg/kg	SW846 8260C
Trichloroethene	67.1		5.01	µg/kg	SW846 8260C

Please note that because there are no reporting limits associated with hazardous waste characterizations or micro analyses, this summary does not include hits from these analyses if included in this work order.

Sample Identification

SB-30

SC41491-01

Client Project #

17-217

Matrix

Soil

Collection Date/Time

09-Nov-17 09:44

Received

10-Nov-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Volatile Organic CompoundsPrepared by method Volatiles

VOC Extraction

Field
extracted

N/A

1

VOC Soil
Extraction

MBR

1719274

Volatile Organic Compounds by SW846 8260Prepared by method SW846 5035A Soil (low level)

Initial weight: 6.81 g

76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 6.12	U	µg/kg dry	6.12	3.10	1	SW846 8260C	15-Nov-17	16-Nov-17	MP	1719306	X
67-64-1	Acetone	< 61.2	U	µg/kg dry	61.2	24.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 6.12	U	µg/kg dry	6.12	5.88	1	"	"	"	"	"	X
71-43-2	Benzene	< 6.12	U	µg/kg dry	6.12	1.62	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 6.12	U	µg/kg dry	6.12	1.63	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 6.12	U	µg/kg dry	6.12	3.09	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 6.12	U	µg/kg dry	6.12	4.08	1	"	"	"	"	"	X
75-25-2	Bromoform	< 6.12	U	µg/kg dry	6.12	5.84	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 12.2	U	µg/kg dry	12.2	5.52	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 12.2	U	µg/kg dry	12.2	10.9	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 6.12	U	µg/kg dry	6.12	1.75	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 6.12	U	µg/kg dry	6.12	1.11	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 6.12	U	µg/kg dry	6.12	1.37	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 12.2	U	µg/kg dry	12.2	3.92	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 6.12	U	µg/kg dry	6.12	5.00	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 6.12	U	µg/kg dry	6.12	1.92	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 12.2	U	µg/kg dry	12.2	3.40	1	"	"	"	"	"	X
67-66-3	Chloroform	< 6.12	U	µg/kg dry	6.12	3.29	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 12.2	U	µg/kg dry	12.2	2.53	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 6.12	U	µg/kg dry	6.12	1.52	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 6.12	U	µg/kg dry	6.12	1.44	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 12.2	U	µg/kg dry	12.2	8.84	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 6.12	U	µg/kg dry	6.12	4.15	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 6.12	U	µg/kg dry	6.12	4.11	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 6.12	U	µg/kg dry	6.12	3.18	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 6.12	U	µg/kg dry	6.12	1.59	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 6.12	U	µg/kg dry	6.12	1.33	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 6.12	U	µg/kg dry	6.12	1.81	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 12.2	U	µg/kg dry	12.2	2.32	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 6.12	U	µg/kg dry	6.12	1.60	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 6.12	U	µg/kg dry	6.12	2.19	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 6.12	U	µg/kg dry	6.12	3.20	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	7.37		µg/kg dry	6.12	2.27	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 6.12	U	µg/kg dry	6.12	3.24	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 6.12	U	µg/kg dry	6.12	3.21	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 6.12	U	µg/kg dry	6.12	3.17	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 6.12	U	µg/kg dry	6.12	2.89	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 6.12	U	µg/kg dry	6.12	1.97	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 6.12	U	µg/kg dry	6.12	3.69	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 6.12	U	µg/kg dry	6.12	3.21	1	"	"	"	"	"	X

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Sample Identification

SB-30

SC41491-01

Client Project #

17-217

Matrix

Soil

Collection Date/Time

09-Nov-17 09:44

Received

10-Nov-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Volatile Organic CompoundsVolatile Organic Compounds by SW846 8260

Initial weight: 6.81 g

100-41-4	Ethylbenzene	< 6.12	U	µg/kg dry	6.12	0.88	1	SW846 8260C	15-Nov-17	16-Nov-17	MP	1719306	X
87-68-3	Hexachlorobutadiene	< 6.12	U	µg/kg dry	6.12	3.07	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 12.2	U	µg/kg dry	12.2	7.51	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 6.12	U	µg/kg dry	6.12	1.21	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 6.12	U	µg/kg dry	6.12	1.32	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 6.12	U	µg/kg dry	6.12	2.25	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 12.2	U	µg/kg dry	12.2	3.14	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 12.2	U	µg/kg dry	12.2	2.43	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 6.12	U	µg/kg dry	6.12	3.64	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 6.12	U	µg/kg dry	6.12	0.99	1	"	"	"	"	"	X
100-42-5	Styrene	< 6.12	U	µg/kg dry	6.12	1.23	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 6.12	U	µg/kg dry	6.12	5.20	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 6.12	U	µg/kg dry	6.12	5.18	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 6.12	U	µg/kg dry	6.12	2.09	1	"	"	"	"	"	X
108-88-3	Toluene	< 6.12	U	µg/kg dry	6.12	1.98	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 6.12	U	µg/kg dry	6.12	2.15	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 6.12	U	µg/kg dry	6.12	4.51	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 6.12	U	µg/kg dry	6.12	1.92	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 6.12	U	µg/kg dry	6.12	2.03	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 6.12	U	µg/kg dry	6.12	4.44	1	"	"	"	"	"	X
79-01-6	Trichloroethene	66.8		µg/kg dry	6.12	1.67	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 6.12	U	µg/kg dry	6.12	3.30	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 6.12	U	µg/kg dry	6.12	4.59	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 6.12	U	µg/kg dry	6.12	1.49	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 6.12	U	µg/kg dry	6.12	1.05	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 6.12	U	µg/kg dry	6.12	2.07	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 12.2	U	µg/kg dry	12.2	1.10	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 6.12	U	µg/kg dry	6.12	1.71	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 12.2	U	µg/kg dry	12.2	9.64	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 6.12	U	µg/kg dry	6.12	5.54	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 6.12	U	µg/kg dry	6.12	2.04	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 6.12	U	µg/kg dry	6.12	3.30	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 6.12	U	µg/kg dry	6.12	1.14	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 61.2	U	µg/kg dry	61.2	40.0	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 122	U	µg/kg dry	122	106	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 30.6	U	µg/kg dry	30.6	14.0	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1220	U	µg/kg dry	1220	228	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	91			70-130 %		"	"	"	"	"	"	
2037-26-5	Toluene-d8	104			70-130 %		"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	140	SGCMS VOC		70-130 %		"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	119			70-130 %		"	"	"	"	"	"	

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Sample Identification

SB-30

SC41491-01

Client Project #

17-217

Matrix

Soil

Collection Date/Time

09-Nov-17 09:44

Received

10-Nov-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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General Chemistry Parameters

% Solids	78.0	%					1	SM2540 G (11) Mod.	14-Nov-17	14-Nov-17	MBR	1719262	
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Subcontracted AnalysesSubcontracted AnalysesPrepared by method 409769-*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

7440-38-2	Arsenic	23.1		mg/kg	0.85	0.85	1	SW6010C	15-Nov-17	16-Nov-17 16:58	11301	409769A	
7440-39-3	Barium	148		mg/kg	0.42	0.42	1	"	"	"	"	"	
7440-43-9	Cadmium	1.03		mg/kg	0.42	0.42	1	"	"	"	"	"	
7440-47-3	Chromium	11.4		mg/kg	0.42	0.42	1	"	"	"	"	"	
7439-92-1	Lead	91.0		mg/kg	0.42	0.42	1	"	"	"	"	"	
7782-49-2	Selenium	< 1.7		mg/kg	1.7	1.7	1	"	"	"	"	"	
7440-22-4	Silver	< 0.42		mg/kg	0.42	0.42	1	"	"	"	"	"	

Prepared by method 409827-*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

7439-97-6	Mercury	0.08		mg/kg	0.03	0.03	1	SW7471B	16-Nov-17	16-Nov-17 10:14	11301	409827A	
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Subcontracted AnalysesPrepared by method 409770-SW8270*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

91-57-6	2-Methylnaphthalene	< 160		ug/kg	160	160	10	SW8270D (SIM)	15-Nov-17	16-Nov-17 14:18	11301	409770A	
83-32-9	Acenaphthene	< 160		ug/kg	160	160	10	"	"	"	"	"	
208-96-8	Acenaphthylene	< 160		ug/kg	160	160	10	"	"	"	"	"	
120-12-7	Anthracene	690		ug/kg	160	160	10	"	"	"	"	"	
56-55-3	Benz(a)anthracene	21,000		ug/kg	1600	1600	100	"	"	16-Nov-17 18:37	"	"	
50-32-8	Benzo(a)pyrene	19,000		ug/kg	1600	1600	100	"	"	"	"	"	
205-99-2	Benzo(b)fluoranthene	25,000		ug/kg	1600	1600	100	"	"	"	"	"	
191-24-2	Benzo(ghi)perylene	21,000		ug/kg	1600	1600	100	"	"	"	"	"	
207-08-9	Benzo(k)fluoranthene	28,000		ug/kg	1600	1600	100	"	"	"	"	"	
218-01-9	Chrysene	28,000		ug/kg	1600	1600	100	"	"	"	"	"	
53-70-3	Dibenz(a,h)anthracene	4,700		ug/kg	160	160	10	"	"	16-Nov-17 14:18	"	"	
206-44-0	Fluoranthene	19,000		ug/kg	1600	1600	100	"	"	16-Nov-17 18:37	"	"	
86-73-7	Fluorene	< 160		ug/kg	160	160	10	"	"	16-Nov-17 14:18	"	"	
193-39-5	Indeno(1,2,3-cd)pyrene	25,000		ug/kg	1600	1600	100	"	"	16-Nov-17 18:37	"	"	
91-20-3	Naphthalene	< 160		ug/kg	160	160	10	"	"	16-Nov-17 14:18	"	"	
85-01-8	Phenanthrene	2,500		ug/kg	160	160	10	"	"	"	"	"	
129-00-0	Pyrene	24,000		ug/kg	1600	1600	100	"	"	16-Nov-17 18:37	"	"	

Surrogate recoveries:

321-60-8	% 2-Fluorobiphenyl	55			30-130 %			"	"	-Nov-17 14:	"	"	
4165-60-0	% Nitrobenzene-d5	49			30-130 %			"	"	"	"	"	
98904-43-9	% Terphenyl-d14	58			30-130 %			"	"	"	"	"	

*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007****This laboratory report is not valid without an authorized signature on the cover page.***

<u>Sample Identification</u>					<u>Client Project #</u>			<u>Matrix</u>	<u>Collection Date/Time</u>		<u>Received</u>		
SB-30					17-217			Soil	09-Nov-17 09:44		10-Nov-17		
SC41491-01													
<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted Analyses

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

Percent Solid	81	%					1	SW846-%Solid	09-Nov-17 09:44	15-Nov-17 21:34	11301	'[none]'
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Sample Identification

SB-7

SC41491-02

Client Project #

17-217

Matrix

Soil

Collection Date/Time

09-Nov-17 10:30

Received

10-Nov-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Prepared by method Volatiles</u>													
	VOC Extraction	Field extracted		N/A			1	VOC Soil Extraction			MBR	1719274	
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5035A Soil (low level)</u>													
								Initial weight: 5.9 g					
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 6.55	U	µg/kg dry	6.55	3.32	1	SW846 8260C	15-Nov-17	16-Nov-17	MP	1719306	X
67-64-1	Acetone	81.9		µg/kg dry	65.5	26.2	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 6.55	U	µg/kg dry	6.55	6.30	1	"	"	"	"	"	X
71-43-2	Benzene	< 6.55	U	µg/kg dry	6.55	1.74	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 6.55	U	µg/kg dry	6.55	1.75	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 6.55	U	µg/kg dry	6.55	3.31	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 6.55	U	µg/kg dry	6.55	4.37	1	"	"	"	"	"	X
75-25-2	Bromoform	< 6.55	U	µg/kg dry	6.55	6.25	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 13.1	U	µg/kg dry	13.1	5.92	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	13.9		µg/kg dry	13.1	11.7	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	7.55		µg/kg dry	6.55	1.87	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	3.63	J	µg/kg dry	6.55	1.19	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 6.55	U	µg/kg dry	6.55	1.47	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 13.1	U	µg/kg dry	13.1	4.19	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 6.55	U	µg/kg dry	6.55	5.36	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 6.55	U	µg/kg dry	6.55	2.05	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 13.1	U	µg/kg dry	13.1	3.64	1	"	"	"	"	"	X
67-66-3	Chloroform	< 6.55	U	µg/kg dry	6.55	3.52	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 13.1	U	µg/kg dry	13.1	2.71	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 6.55	U	µg/kg dry	6.55	1.63	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 6.55	U	µg/kg dry	6.55	1.54	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 13.1	U	µg/kg dry	13.1	9.47	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 6.55	U	µg/kg dry	6.55	4.44	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 6.55	U	µg/kg dry	6.55	4.40	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 6.55	U	µg/kg dry	6.55	3.41	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 6.55	U	µg/kg dry	6.55	1.70	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 6.55	U	µg/kg dry	6.55	1.42	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 6.55	U	µg/kg dry	6.55	1.94	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 13.1	U	µg/kg dry	13.1	2.48	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 6.55	U	µg/kg dry	6.55	1.72	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 6.55	U	µg/kg dry	6.55	2.35	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 6.55	U	µg/kg dry	6.55	3.43	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	4.56	J	µg/kg dry	6.55	2.43	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 6.55	U	µg/kg dry	6.55	3.47	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 6.55	U	µg/kg dry	6.55	3.43	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 6.55	U	µg/kg dry	6.55	3.39	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 6.55	U	µg/kg dry	6.55	3.09	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 6.55	U	µg/kg dry	6.55	2.11	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 6.55	U	µg/kg dry	6.55	3.95	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 6.55	U	µg/kg dry	6.55	3.44	1	"	"	"	"	"	X

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Sample Identification

SB-7

SC41491-02

Client Project #

17-217

Matrix

Soil

Collection Date/Time

09-Nov-17 10:30

Received

10-Nov-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Volatile Organic CompoundsVolatile Organic Compounds by SW846 8260

Initial weight: 5.9 g

100-41-4	Ethylbenzene	85.6		µg/kg dry	6.55	0.94	1	SW846 8260C	15-Nov-17	16-Nov-17	MP	1719306	X
87-68-3	Hexachlorobutadiene	< 6.55	U	µg/kg dry	6.55	3.29	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 13.1	U	µg/kg dry	13.1	8.04	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	28.7		µg/kg dry	6.55	1.29	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	11.5		µg/kg dry	6.55	1.41	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 6.55	U	µg/kg dry	6.55	2.41	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 13.1	U	µg/kg dry	13.1	3.37	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 13.1	U	µg/kg dry	13.1	2.60	1	"	"	"	"	"	X
91-20-3	Naphthalene	OR		µg/kg dry	6.55	3.90	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	54.8		µg/kg dry	6.55	1.06	1	"	"	"	"	"	X
100-42-5	Styrene	< 6.55	U	µg/kg dry	6.55	1.32	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 6.55	U	µg/kg dry	6.55	5.57	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 6.55	U	µg/kg dry	6.55	5.54	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 6.55	U	µg/kg dry	6.55	2.24	1	"	"	"	"	"	X
108-88-3	Toluene	13.8		µg/kg dry	6.55	2.12	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 6.55	U	µg/kg dry	6.55	2.30	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 6.55	U	µg/kg dry	6.55	4.83	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 6.55	U	µg/kg dry	6.55	2.06	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 6.55	U	µg/kg dry	6.55	2.17	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 6.55	U	µg/kg dry	6.55	4.75	1	"	"	"	"	"	X
79-01-6	Trichloroethene	6.09	J	µg/kg dry	6.55	1.79	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 6.55	U	µg/kg dry	6.55	3.53	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 6.55	U	µg/kg dry	6.55	4.91	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	134		µg/kg dry	6.55	1.59	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	37.8		µg/kg dry	6.55	1.13	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 6.55	U	µg/kg dry	6.55	2.21	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	74.5		µg/kg dry	13.1	1.18	1	"	"	"	"	"	X
95-47-6	o-Xylene	53.0		µg/kg dry	6.55	1.83	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 13.1	U	µg/kg dry	13.1	10.3	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 6.55	U	µg/kg dry	6.55	5.93	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 6.55	U	µg/kg dry	6.55	2.19	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 6.55	U	µg/kg dry	6.55	3.53	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 6.55	U	µg/kg dry	6.55	1.22	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 65.5	U	µg/kg dry	65.5	42.9	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 131	U	µg/kg dry	131	114	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 32.8	U	µg/kg dry	32.8	14.9	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1310	U	µg/kg dry	1310	244	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	103			70-130 %		"	"	"	"	"	"	
2037-26-5	Toluene-d8	102			70-130 %		"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	145	SGCMS VOC		70-130 %		"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	120			70-130 %		"	"	"	"	"	"	

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Sample Identification

SB-7

SC41491-02

Client Project #

17-217

Matrix

Soil

Collection Date/Time

09-Nov-17 10:30

Received

10-Nov-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Re-analysis of Volatile Organic Compounds by SW846 8260			GS1										
Prepared by method SW846 5035A Soil (high level)						Initial weight: 6.26 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 812	U, D	µg/kg dry	812	412	250	SW846 8260C	22-Nov-17	22-Nov-17	MP	1719678	X
67-64-1	Acetone	< 8120	U, D	µg/kg dry	8120	3250	250	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 812	U, D	µg/kg dry	812	780	250	"	"	"	"	"	X
71-43-2	Benzene	< 812	U, D	µg/kg dry	812	215	250	"	"	"	"	"	X
108-86-1	Bromobenzene	< 812	U, D	µg/kg dry	812	217	250	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 812	U, D	µg/kg dry	812	410	250	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 812	U, D	µg/kg dry	812	541	250	"	"	"	"	"	X
75-25-2	Bromoform	< 812	U, D	µg/kg dry	812	774	250	"	"	"	"	"	X
74-83-9	Bromomethane	< 1620	U, D	µg/kg dry	1620	733	250	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 1620	U, D	µg/kg dry	1620	1450	250	"	"	"	"	"	X
104-51-8	n-Butylbenzene	755	J, D	µg/kg dry	812	232	250	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	617	J, D	µg/kg dry	812	148	250	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	609	J, D	µg/kg dry	812	182	250	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 1620	U, D	µg/kg dry	1620	519	250	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 812	U, D	µg/kg dry	812	664	250	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 812	U, D	µg/kg dry	812	254	250	"	"	"	"	"	X
75-00-3	Chloroethane	< 1620	U, D	µg/kg dry	1620	450	250	"	"	"	"	"	X
67-66-3	Chloroform	< 812	U, D	µg/kg dry	812	436	250	"	"	"	"	"	X
74-87-3	Chloromethane	< 1620	U, D	µg/kg dry	1620	335	250	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 812	U, D	µg/kg dry	812	202	250	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 812	U, D	µg/kg dry	812	191	250	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 1620	U, D	µg/kg dry	1620	1170	250	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 812	U, D	µg/kg dry	812	550	250	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 812	U, D	µg/kg dry	812	545	250	"	"	"	"	"	X
74-95-3	Dibromomethane	< 812	U, D	µg/kg dry	812	422	250	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 812	U, D	µg/kg dry	812	211	250	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 812	U, D	µg/kg dry	812	176	250	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 812	U, D	µg/kg dry	812	240	250	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 1620	U, D	µg/kg dry	1620	308	250	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 812	U, D	µg/kg dry	812	213	250	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 812	U, D	µg/kg dry	812	291	250	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 812	U, D	µg/kg dry	812	425	250	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	519	J, D	µg/kg dry	812	301	250	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 812	U, D	µg/kg dry	812	430	250	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 812	U, D	µg/kg dry	812	425	250	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 812	U, D	µg/kg dry	812	420	250	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 812	U, D	µg/kg dry	812	383	250	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 812	U, D	µg/kg dry	812	261	250	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 812	U, D	µg/kg dry	812	489	250	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 812	U, D	µg/kg dry	812	426	250	"	"	"	"	"	X
100-41-4	Ethylbenzene	682	J, D	µg/kg dry	812	117	250	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 812	U, D	µg/kg dry	812	407	250	"	"	"	"	"	X

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Sample Identification

SB-7

SC41491-02

Client Project #

17-217

Matrix

Soil

Collection Date/Time

09-Nov-17 10:30

Received

10-Nov-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Volatile Organic Compounds

Re-analysis of Volatile Organic Compounds
by SW846 8260

GS1

Initial weight: 6.26 g

591-78-6	2-Hexanone (MBK)	< 1620	U, D	µg/kg dry	1620	996	250	SW846 8260C	22-Nov-17	22-Nov-17	MP	1719678	X
98-82-8	Isopropylbenzene	406	J, D	µg/kg dry	812	160	250	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	560	J, D	µg/kg dry	812	175	250	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 812	U, D	µg/kg dry	812	299	250	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 1620	U, D	µg/kg dry	1620	417	250	"	"	"	"	"	X
75-09-2	Methylene chloride	< 1620	U, D	µg/kg dry	1620	322	250	"	"	"	"	"	X
91-20-3	Naphthalene	52,200	D	µg/kg dry	812	483	250	"	"	"	"	"	X
103-65-1	n-Propylbenzene	885	D	µg/kg dry	812	131	250	"	"	"	"	"	X
100-42-5	Styrene	< 812	U, D	µg/kg dry	812	163	250	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 812	U, D	µg/kg dry	812	690	250	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 812	U, D	µg/kg dry	812	687	250	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 812	U, D	µg/kg dry	812	278	250	"	"	"	"	"	X
108-88-3	Toluene	< 812	U, D	µg/kg dry	812	263	250	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 812	U, D	µg/kg dry	812	285	250	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 812	U, D	µg/kg dry	812	598	250	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 812	U, D	µg/kg dry	812	255	250	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 812	U, D	µg/kg dry	812	269	250	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 812	U, D	µg/kg dry	812	588	250	"	"	"	"	"	X
79-01-6	Trichloroethene	390	J, D	µg/kg dry	812	222	250	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 812	U, D	µg/kg dry	812	437	250	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 812	U, D	µg/kg dry	812	609	250	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	1,310	D	µg/kg dry	812	197	250	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	804	J, D	µg/kg dry	812	140	250	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 812	U, D	µg/kg dry	812	274	250	"	"	"	"	"	X
179601-23-1	m,p-Xylene	787	J, D	µg/kg dry	1620	146	250	"	"	"	"	"	X
95-47-6	o-Xylene	528	J, D	µg/kg dry	812	227	250	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 1620	U, D	µg/kg dry	1620	1280	250	"	"	"	"	"	
60-29-7	Ethyl ether	< 812	U, D	µg/kg dry	812	735	250	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 812	U, D	µg/kg dry	812	271	250	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 812	U, D	µg/kg dry	812	437	250	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 812	U, D	µg/kg dry	812	151	250	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 8120	U, D	µg/kg dry	8120	5310	250	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 16200	U, D	µg/kg dry	16200	14100	250	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 4060	U, D	µg/kg dry	4060	1850	250	"	"	"	"	"	X
64-17-5	Ethanol	< 162000	U, D	µg/kg dry	162000	30300	250	"	"	"	"	"	

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	99			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	99			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	94			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	95			70-130 %			"	"	"	"	"	

General Chemistry Parameters

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Sample Identification

SB-7

SC41491-02

Client Project #

17-217

Matrix

Soil

Collection Date/Time

09-Nov-17 10:30

Received

10-Nov-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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General Chemistry Parameters

% Solids	80.0	%					1	SM2540 G (11) Mod.	14-Nov-17	14-Nov-17	MBR	1719262	
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Subcontracted AnalysesSubcontracted AnalysesPrepared by method 409769-*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

7440-38-2	Arsenic	69.4		mg/kg	0.85	0.85	1	SW6010C	15-Nov-17	16-Nov-17 17:01	11301	409769A	
7440-39-3	Barium	99.5		mg/kg	0.43	0.43	1	"	"	"	"	"	
7440-43-9	Cadmium	1.13		mg/kg	0.43	0.43	1	"	"	"	"	"	
7440-47-3	Chromium	20.4		mg/kg	0.43	0.43	1	"	"	"	"	"	
7439-92-1	Lead	233		mg/kg	4.3	4.3	10	"	"	17-Nov-17 11:40	"	"	
7782-49-2	Selenium	< 1.7		mg/kg	1.7	1.7	1	"	"	16-Nov-17 17:01	"	"	
7440-22-4	Silver	< 0.43		mg/kg	0.43	0.43	1	"	"	"	"	"	

Prepared by method 409827-*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

7439-97-6	Mercury	0.25		mg/kg	0.03	0.03	1	SW7471B	16-Nov-17	16-Nov-17 10:16	11301	409827A	
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Subcontracted AnalysesPrepared by method 409770-SW8270*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

91-57-6	2-Methylnaphthalene	560		ug/kg	170	170	10	SW8270D (SIM)	15-Nov-17	16-Nov-17 14:39	11301	409770A	
83-32-9	Acenaphthene	400		ug/kg	170	170	10	"	"	"	"	"	
208-96-8	Acenaphthylene	190		ug/kg	170	170	10	"	"	"	"	"	
120-12-7	Anthracene	2,400		ug/kg	170	170	10	"	"	"	"	"	
56-55-3	Benz(a)anthracene	17,000		ug/kg	1700	1700	100	"	"	16-Nov-17 18:59	"	"	
50-32-8	Benzo(a)pyrene	13,000		ug/kg	1700	1700	100	"	"	"	"	"	
205-99-2	Benzo(b)fluoranthene	15,000		ug/kg	1700	1700	100	"	"	"	"	"	
191-24-2	Benzo(ghi)perylene	11,000		ug/kg	1700	1700	100	"	"	"	"	"	
207-08-9	Benzo(k)fluoranthene	17,000		ug/kg	1700	1700	100	"	"	"	"	"	
218-01-9	Chrysene	20,000		ug/kg	1700	1700	100	"	"	"	"	"	
53-70-3	Dibenz(a,h)anthracene	2,700		ug/kg	170	170	10	"	"	16-Nov-17 14:39	"	"	
206-44-0	Fluoranthene	24,000		ug/kg	1700	1700	100	"	"	16-Nov-17 18:59	"	"	
86-73-7	Fluorene	420		ug/kg	170	170	10	"	"	16-Nov-17 14:39	"	"	
193-39-5	Indeno(1,2,3-cd)pyrene	14,000		ug/kg	1700	1700	100	"	"	16-Nov-17 18:59	"	"	
91-20-3	Naphthalene	1,100		ug/kg	170	170	10	"	"	16-Nov-17 14:39	"	"	
85-01-8	Phenanthrene	9,500		ug/kg	1700	1700	100	"	"	16-Nov-17 18:59	"	"	
129-00-0	Pyrene	23,000		ug/kg	1700	1700	100	"	"	"	"	"	

Surrogate recoveries:

321-60-8	% 2-Fluorobiphenyl	56			30-130 %			"	"	-Nov-17 14:	"	"	
4165-60-0	% Nitrobenzene-d5	50			30-130 %			"	"	"	"	"	
98904-43-9	% Terphenyl-d14	58			30-130 %			"	"	"	"	"	

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<u>Sample Identification</u>					<u>Client Project #</u>			<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>			
SB-7					17-217			Soil	09-Nov-17 10:30	10-Nov-17			
SC41491-02													
<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted Analyses

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

Percent Solid	77	%					1	SW846-%Solid	09-Nov-17 10:30	15-Nov-17 21:34	11301	'[none]'	
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Sample Identification

SB-29

SC41491-03

Client Project #

17-217

Matrix

Soil

Collection Date/Time

09-Nov-17 11:01

Received

10-Nov-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Prepared by method Volatiles</u>													
	VOC Extraction	Field extracted		N/A			1	VOC Soil Extraction			MBR	1719274	
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5035A Soil (low level)</u>													
								Initial weight: 7.51 g					
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 4.07	U	µg/kg dry	4.07	2.06	1	SW846 8260C	22-Nov-17	22-Nov-17	MP	1719679	X
67-64-1	Acetone	< 40.7	U	µg/kg dry	40.7	16.3	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 4.07	U	µg/kg dry	4.07	3.91	1	"	"	"	"	"	X
71-43-2	Benzene	< 4.07	U	µg/kg dry	4.07	1.08	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 4.07	U	µg/kg dry	4.07	1.09	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 4.07	U	µg/kg dry	4.07	2.05	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 4.07	U	µg/kg dry	4.07	2.71	1	"	"	"	"	"	X
75-25-2	Bromoform	< 4.07	U	µg/kg dry	4.07	3.88	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 8.14	U	µg/kg dry	8.14	3.67	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 8.14	U	µg/kg dry	8.14	7.27	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 4.07	U	µg/kg dry	4.07	1.16	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 4.07	U	µg/kg dry	4.07	0.74	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 4.07	U	µg/kg dry	4.07	0.91	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 8.14	U	µg/kg dry	8.14	2.60	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 4.07	U	µg/kg dry	4.07	3.33	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 4.07	U	µg/kg dry	4.07	1.27	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 8.14	U	µg/kg dry	8.14	2.26	1	"	"	"	"	"	X
67-66-3	Chloroform	< 4.07	U	µg/kg dry	4.07	2.18	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 8.14	U	µg/kg dry	8.14	1.68	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 4.07	U	µg/kg dry	4.07	1.01	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 4.07	U	µg/kg dry	4.07	0.96	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 8.14	U	µg/kg dry	8.14	5.88	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 4.07	U	µg/kg dry	4.07	2.76	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 4.07	U	µg/kg dry	4.07	2.73	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 4.07	U	µg/kg dry	4.07	2.12	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.07	U	µg/kg dry	4.07	1.06	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.07	U	µg/kg dry	4.07	0.88	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.07	U	µg/kg dry	4.07	1.20	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 8.14	U	µg/kg dry	8.14	1.54	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 4.07	U	µg/kg dry	4.07	1.07	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 4.07	U	µg/kg dry	4.07	1.46	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 4.07	U	µg/kg dry	4.07	2.13	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 4.07	U	µg/kg dry	4.07	1.51	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 4.07	U	µg/kg dry	4.07	2.16	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 4.07	U	µg/kg dry	4.07	2.13	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 4.07	U	µg/kg dry	4.07	2.11	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 4.07	U	µg/kg dry	4.07	1.92	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 4.07	U	µg/kg dry	4.07	1.31	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 4.07	U	µg/kg dry	4.07	2.45	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 4.07	U	µg/kg dry	4.07	2.14	1	"	"	"	"	"	X

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Sample Identification

SB-29

SC41491-03

Client Project #

17-217

Matrix

Soil

Collection Date/Time

09-Nov-17 11:01

Received

10-Nov-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
Initial weight: 7.51 g													
100-41-4	Ethylbenzene	< 4.07	U	µg/kg dry	4.07	0.59	1	SW846 8260C	22-Nov-17	22-Nov-17	MP	1719679	X
87-68-3	Hexachlorobutadiene	< 4.07	U	µg/kg dry	4.07	2.04	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 8.14	U	µg/kg dry	8.14	4.99	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 4.07	U	µg/kg dry	4.07	0.80	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 4.07	U	µg/kg dry	4.07	0.87	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 4.07	U	µg/kg dry	4.07	1.50	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 8.14	U	µg/kg dry	8.14	2.09	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 8.14	U	µg/kg dry	8.14	1.61	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.07	U	µg/kg dry	4.07	2.42	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 4.07	U	µg/kg dry	4.07	0.66	1	"	"	"	"	"	X
100-42-5	Styrene	< 4.07	U	µg/kg dry	4.07	0.82	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 4.07	U	µg/kg dry	4.07	3.46	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 4.07	U	µg/kg dry	4.07	3.44	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 4.07	U	µg/kg dry	4.07	1.39	1	"	"	"	"	"	X
108-88-3	Toluene	< 4.07	U	µg/kg dry	4.07	1.32	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 4.07	U	µg/kg dry	4.07	1.43	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.07	U	µg/kg dry	4.07	3.00	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 4.07	U	µg/kg dry	4.07	1.28	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 4.07	U	µg/kg dry	4.07	1.35	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 4.07	U	µg/kg dry	4.07	2.95	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 4.07	U	µg/kg dry	4.07	1.11	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 4.07	U	µg/kg dry	4.07	2.19	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 4.07	U	µg/kg dry	4.07	3.05	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 4.07	U	µg/kg dry	4.07	0.99	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 4.07	U	µg/kg dry	4.07	0.70	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 4.07	U	µg/kg dry	4.07	1.37	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 8.14	U	µg/kg dry	8.14	0.73	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 4.07	U	µg/kg dry	4.07	1.14	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 8.14	U	µg/kg dry	8.14	6.41	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 4.07	U	µg/kg dry	4.07	3.69	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 4.07	U	µg/kg dry	4.07	1.36	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 4.07	U	µg/kg dry	4.07	2.19	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 4.07	U	µg/kg dry	4.07	0.76	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 40.7	U	µg/kg dry	40.7	26.6	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 81.4	U	µg/kg dry	81.4	70.7	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 20.3	U	µg/kg dry	20.3	9.28	1	"	"	"	"	"	X
64-17-5	Ethanol	< 814	U	µg/kg dry	814	152	1	"	"	"	"	"	X
<u>Surrogate recoveries:</u>													
460-00-4	4-Bromofluorobenzene	93			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	105			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	129			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	119			70-130 %			"	"	"	"	"	

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Sample Identification

SB-29

SC41491-03

Client Project #

17-217

Matrix

Soil

Collection Date/Time

09-Nov-17 11:01

Received

10-Nov-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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General Chemistry Parameters

% Solids	91.9	%					1	SM2540 G (11) Mod.	14-Nov-17	14-Nov-17	MBR	1719262	
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Subcontracted AnalysesSubcontracted AnalysesPrepared by method 409769-*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

7440-38-2	Arsenic	11.5		mg/kg	0.71	0.71	1	SW6010C	15-Nov-17	16-Nov-17 17:04	11301	409769A	
7440-39-3	Barium	53.7		mg/kg	0.35	0.35	1	"	"	"	"	"	
7440-43-9	Cadmium	0.41		mg/kg	0.35	0.35	1	"	"	"	"	"	
7440-47-3	Chromium	13.3		mg/kg	0.35	0.35	1	"	"	"	"	"	
7439-92-1	Lead	14.7		mg/kg	0.35	0.35	1	"	"	"	"	"	
7782-49-2	Selenium	< 1.4		mg/kg	1.4	1.4	1	"	"	"	"	"	
7440-22-4	Silver	< 0.35		mg/kg	0.35	0.35	1	"	"	"	"	"	

Prepared by method 409827-*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

7439-97-6	Mercury	< 0.03		mg/kg	0.03	0.03	1	SW7471B	16-Nov-17	16-Nov-17 10:22	11301	409827A	
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Subcontracted AnalysesPrepared by method 409770-SW8270*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

91-57-6	2-Methylnaphthalene	< 150		ug/kg	150	150	10	SW8270D (SIM)	15-Nov-17	16-Nov-17 15:01	11301	409770A	
83-32-9	Acenaphthene	< 150		ug/kg	150	150	10	"	"	"	"	"	
208-96-8	Acenaphthylene	< 150		ug/kg	150	150	10	"	"	"	"	"	
120-12-7	Anthracene	< 150		ug/kg	150	150	10	"	"	"	"	"	
56-55-3	Benz(a)anthracene	< 150		ug/kg	150	150	10	"	"	"	"	"	
50-32-8	Benzo(a)pyrene	< 150		ug/kg	150	150	10	"	"	"	"	"	
205-99-2	Benzo(b)fluoranthene	< 150		ug/kg	150	150	10	"	"	"	"	"	
191-24-2	Benzo(ghi)perylene	1,300		ug/kg	150	150	10	"	"	"	"	"	
207-08-9	Benzo(k)fluoranthene	< 150		ug/kg	150	150	10	"	"	"	"	"	
218-01-9	Chrysene	< 150		ug/kg	150	150	10	"	"	"	"	"	
53-70-3	Dibenz(a,h)anthracene	170		ug/kg	150	150	10	"	"	"	"	"	
206-44-0	Fluoranthene	< 150		ug/kg	150	150	10	"	"	"	"	"	
86-73-7	Fluorene	< 150		ug/kg	150	150	10	"	"	"	"	"	
193-39-5	Indeno(1,2,3-cd)pyrene	1,000		ug/kg	150	150	10	"	"	"	"	"	
91-20-3	Naphthalene	< 150		ug/kg	150	150	10	"	"	"	"	"	
85-01-8	Phenanthrene	< 150		ug/kg	150	150	10	"	"	"	"	"	
129-00-0	Pyrene	< 150		ug/kg	150	150	10	"	"	"	"	"	

Surrogate recoveries:

321-60-8	% 2-Fluorobiphenyl	52			30-130 %			"	"	"	"	"	
4165-60-0	% Nitrobenzene-d5	39			30-130 %			"	"	"	"	"	
98904-43-9	% Terphenyl-d14	60			30-130 %			"	"	"	"	"	

*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

Percent Solid	87	%					1	SW846-%Solid	09-Nov-17 11:01	15-Nov-17 21:34	11301	'[none]'	
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Sample Identification

SB-5

SC41491-04

Client Project #

17-217

Matrix

Soil

Collection Date/Time

09-Nov-17 11:28

Received

10-Nov-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Prepared by method Volatiles</u>													
	VOC Extraction	Field extracted		N/A			1	VOC Soil Extraction			MBR	1719274	
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5035A Soil (low level)</u>													
								Initial weight: 7.49 g					
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.34	U	µg/kg dry	5.34	2.71	1	SW846 8260C	16-Nov-17	16-Nov-17	MP	1719357	X
67-64-1	Acetone	< 53.4	U	µg/kg dry	53.4	21.4	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 5.34	U	µg/kg dry	5.34	5.13	1	"	"	"	"	"	X
71-43-2	Benzene	< 5.34	U	µg/kg dry	5.34	1.42	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 5.34	U	µg/kg dry	5.34	1.43	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.34	U	µg/kg dry	5.34	2.70	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 5.34	U	µg/kg dry	5.34	3.56	1	"	"	"	"	"	X
75-25-2	Bromoform	< 5.34	U	µg/kg dry	5.34	5.10	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 10.7	U	µg/kg dry	10.7	4.82	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.7	U	µg/kg dry	10.7	9.55	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 5.34	U	µg/kg dry	5.34	1.53	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 5.34	U	µg/kg dry	5.34	0.97	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 5.34	U	µg/kg dry	5.34	1.20	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 10.7	U	µg/kg dry	10.7	3.42	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 5.34	U	µg/kg dry	5.34	4.37	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 5.34	U	µg/kg dry	5.34	1.67	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 10.7	U	µg/kg dry	10.7	2.96	1	"	"	"	"	"	X
67-66-3	Chloroform	< 5.34	U	µg/kg dry	5.34	2.87	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 10.7	U	µg/kg dry	10.7	2.21	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 5.34	U	µg/kg dry	5.34	1.33	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 5.34	U	µg/kg dry	5.34	1.26	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 10.7	U	µg/kg dry	10.7	7.72	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 5.34	U	µg/kg dry	5.34	3.62	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 5.34	U	µg/kg dry	5.34	3.58	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 5.34	U	µg/kg dry	5.34	2.78	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 5.34	U	µg/kg dry	5.34	1.39	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 5.34	U	µg/kg dry	5.34	1.16	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 5.34	U	µg/kg dry	5.34	1.58	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 10.7	U	µg/kg dry	10.7	2.02	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 5.34	U	µg/kg dry	5.34	1.40	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 5.34	U	µg/kg dry	5.34	1.91	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 5.34	U	µg/kg dry	5.34	2.79	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 5.34	U	µg/kg dry	5.34	1.98	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 5.34	U	µg/kg dry	5.34	2.83	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 5.34	U	µg/kg dry	5.34	2.80	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 5.34	U	µg/kg dry	5.34	2.77	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 5.34	U	µg/kg dry	5.34	2.52	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 5.34	U	µg/kg dry	5.34	1.72	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 5.34	U	µg/kg dry	5.34	3.22	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 5.34	U	µg/kg dry	5.34	2.80	1	"	"	"	"	"	X

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Sample Identification

SB-5

SC41491-04

Client Project #

17-217

Matrix

Soil

Collection Date/Time

09-Nov-17 11:28

Received

10-Nov-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Volatile Organic CompoundsVolatile Organic Compounds by SW846 8260

Initial weight: 7.49 g

100-41-4	Ethylbenzene	< 5.34	U	µg/kg dry	5.34	0.77	1	SW846 8260C	16-Nov-17	16-Nov-17	MP	1719357	X
87-68-3	Hexachlorobutadiene	< 5.34	U	µg/kg dry	5.34	2.68	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.7	U	µg/kg dry	10.7	6.55	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 5.34	U	µg/kg dry	5.34	1.05	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 5.34	U	µg/kg dry	5.34	1.15	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 5.34	U	µg/kg dry	5.34	1.97	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.7	U	µg/kg dry	10.7	2.75	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 10.7	U	µg/kg dry	10.7	2.12	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 5.34	U	µg/kg dry	5.34	3.18	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 5.34	U	µg/kg dry	5.34	0.87	1	"	"	"	"	"	X
100-42-5	Styrene	< 5.34	U	µg/kg dry	5.34	1.07	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 5.34	U	µg/kg dry	5.34	4.54	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.34	U	µg/kg dry	5.34	4.52	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 5.34	U	µg/kg dry	5.34	1.83	1	"	"	"	"	"	X
108-88-3	Toluene	< 5.34	U	µg/kg dry	5.34	1.73	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 5.34	U	µg/kg dry	5.34	1.87	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 5.34	U	µg/kg dry	5.34	3.94	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 5.34	U	µg/kg dry	5.34	1.68	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 5.34	U	µg/kg dry	5.34	1.77	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 5.34	U	µg/kg dry	5.34	3.87	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 5.34	U	µg/kg dry	5.34	1.46	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 5.34	U	µg/kg dry	5.34	2.88	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 5.34	U	µg/kg dry	5.34	4.01	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 5.34	U	µg/kg dry	5.34	1.30	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 5.34	U	µg/kg dry	5.34	0.92	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 5.34	U	µg/kg dry	5.34	1.81	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 10.7	U	µg/kg dry	10.7	0.96	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 5.34	U	µg/kg dry	5.34	1.50	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 10.7	U	µg/kg dry	10.7	8.42	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 5.34	U	µg/kg dry	5.34	4.84	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 5.34	U	µg/kg dry	5.34	1.78	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 5.34	U	µg/kg dry	5.34	2.88	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 5.34	U	µg/kg dry	5.34	0.99	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 53.4	U	µg/kg dry	53.4	35.0	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 107	U	µg/kg dry	107	92.8	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 26.7	U	µg/kg dry	26.7	12.2	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1070	U	µg/kg dry	1070	199	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	90			70-130 %		"	"	"	"	"	"
2037-26-5	Toluene-d8	106			70-130 %		"	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	144	SGCMS VOC		70-130 %		"	"	"	"	"	"
1868-53-7	Dibromofluoromethane	119			70-130 %		"	"	"	"	"	"

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Sample Identification

SB-5

SC41491-04

Client Project #

17-217

Matrix

Soil

Collection Date/Time

09-Nov-17 11:28

Received

10-Nov-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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General Chemistry Parameters

% Solids	80.6	%					1	SM2540 G (11) Mod.	14-Nov-17	14-Nov-17	MBR	1719262	
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Subcontracted AnalysesSubcontracted AnalysesPrepared by method 409769-*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

7440-38-2	Arsenic	5.46		mg/kg	0.87	0.87	1	SW6010C	15-Nov-17	16-Nov-17 17:07	11301	409769A	
7440-39-3	Barium	49.1		mg/kg	0.43	0.43	1	"	"	"	"	"	
7440-43-9	Cadmium	0.46		mg/kg	0.43	0.43	1	"	"	"	"	"	
7440-47-3	Chromium	11.9		mg/kg	0.43	0.43	1	"	"	"	"	"	
7439-92-1	Lead	46.0		mg/kg	0.43	0.43	1	"	"	"	"	"	
7782-49-2	Selenium	< 1.7		mg/kg	1.7	1.7	1	"	"	"	"	"	
7440-22-4	Silver	< 0.43		mg/kg	0.43	0.43	1	"	"	"	"	"	

Prepared by method 409827-*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

7439-97-6	Mercury	0.10		mg/kg	0.03	0.03	1	SW7471B	16-Nov-17	16-Nov-17 10:25	11301	409827A	
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Subcontracted AnalysesPrepared by method 409770-SW8270*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

91-57-6	2-Methylnaphthalene	< 170		ug/kg	170	170	10	SW8270D (SIM)	15-Nov-17	16-Nov-17 15:22	11301	409770A	
83-32-9	Acenaphthene	< 170		ug/kg	170	170	10	"	"	"	"	"	
208-96-8	Acenaphthylene	< 170		ug/kg	170	170	10	"	"	"	"	"	
120-12-7	Anthracene	< 170		ug/kg	170	170	10	"	"	"	"	"	
56-55-3	Benz(a)anthracene	< 170		ug/kg	170	170	10	"	"	"	"	"	
50-32-8	Benzo(a)pyrene	< 170		ug/kg	170	170	10	"	"	"	"	"	
205-99-2	Benzo(b)fluoranthene	< 170		ug/kg	170	170	10	"	"	"	"	"	
191-24-2	Benzo(ghi)perylene	< 170		ug/kg	170	170	10	"	"	"	"	"	
207-08-9	Benzo(k)fluoranthene	< 170		ug/kg	170	170	10	"	"	"	"	"	
218-01-9	Chrysene	< 170		ug/kg	170	170	10	"	"	"	"	"	
53-70-3	Dibenz(a,h)anthracene	< 170		ug/kg	170	170	10	"	"	"	"	"	
206-44-0	Fluoranthene	< 170		ug/kg	170	170	10	"	"	"	"	"	
86-73-7	Fluorene	< 170		ug/kg	170	170	10	"	"	"	"	"	
193-39-5	Indeno(1,2,3-cd)pyrene	< 170		ug/kg	170	170	10	"	"	"	"	"	
91-20-3	Naphthalene	< 170		ug/kg	170	170	10	"	"	"	"	"	
85-01-8	Phenanthrene	< 170		ug/kg	170	170	10	"	"	"	"	"	
129-00-0	Pyrene	< 170		ug/kg	170	170	10	"	"	"	"	"	

Surrogate recoveries:

321-60-8	% 2-Fluorobiphenyl	49			30-130 %			"	"	"	"	"	
4165-60-0	% Nitrobenzene-d5	27			30-130 %			"	"	"	"	"	
98904-43-9	% Terphenyl-d14	56			30-130 %			"	"	"	"	"	

*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

Percent Solid	79	%					1	SW846-%Solid	09-Nov-17 11:28	15-Nov-17 21:34	11301	'[none]'	
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Sample Identification

SB-26

SC41491-05

Client Project #

17-217

Matrix

Soil

Collection Date/Time

09-Nov-17 11:54

Received

10-Nov-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Volatile Organic CompoundsPrepared by method Volatiles

VOC Extraction

Field
extracted

N/A

1

VOC Soil
Extraction

MBR

1719274

Volatile Organic Compounds by SW846 8260Prepared by method SW846 5035A Soil (low level)

Initial weight: 7.69 g

76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.06	U	µg/kg dry	5.06	2.56	1	SW846 8260C	15-Nov-17	16-Nov-17	MP	1719306	X
67-64-1	Acetone	< 50.6	U	µg/kg dry	50.6	20.2	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 5.06	U	µg/kg dry	5.06	4.86	1	"	"	"	"	"	X
71-43-2	Benzene	< 5.06	U	µg/kg dry	5.06	1.34	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 5.06	U	µg/kg dry	5.06	1.35	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.06	U	µg/kg dry	5.06	2.55	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 5.06	U	µg/kg dry	5.06	3.37	1	"	"	"	"	"	X
75-25-2	Bromoform	< 5.06	U	µg/kg dry	5.06	4.82	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 10.1	U	µg/kg dry	10.1	4.57	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.1	U	µg/kg dry	10.1	9.04	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 5.06	U	µg/kg dry	5.06	1.45	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 5.06	U	µg/kg dry	5.06	0.92	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 5.06	U	µg/kg dry	5.06	1.13	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 10.1	U	µg/kg dry	10.1	3.24	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 5.06	U	µg/kg dry	5.06	4.14	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 5.06	U	µg/kg dry	5.06	1.58	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 10.1	U	µg/kg dry	10.1	2.81	1	"	"	"	"	"	X
67-66-3	Chloroform	< 5.06	U	µg/kg dry	5.06	2.72	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 10.1	U	µg/kg dry	10.1	2.09	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 5.06	U	µg/kg dry	5.06	1.26	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 5.06	U	µg/kg dry	5.06	1.19	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 10.1	U	µg/kg dry	10.1	7.31	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 5.06	U	µg/kg dry	5.06	3.43	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 5.06	U	µg/kg dry	5.06	3.39	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 5.06	U	µg/kg dry	5.06	2.63	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 5.06	U	µg/kg dry	5.06	1.31	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 5.06	U	µg/kg dry	5.06	1.10	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 5.06	U	µg/kg dry	5.06	1.50	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 10.1	U	µg/kg dry	10.1	1.92	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 5.06	U	µg/kg dry	5.06	1.32	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 5.06	U	µg/kg dry	5.06	1.81	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 5.06	U	µg/kg dry	5.06	2.64	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	5.35		µg/kg dry	5.06	1.88	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 5.06	U	µg/kg dry	5.06	2.68	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 5.06	U	µg/kg dry	5.06	2.65	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 5.06	U	µg/kg dry	5.06	2.62	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 5.06	U	µg/kg dry	5.06	2.39	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 5.06	U	µg/kg dry	5.06	1.63	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 5.06	U	µg/kg dry	5.06	3.05	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 5.06	U	µg/kg dry	5.06	2.65	1	"	"	"	"	"	X

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Sample Identification

SB-26

SC41491-05

Client Project #

17-217

Matrix

Soil

Collection Date/Time

09-Nov-17 11:54

Received

10-Nov-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Volatile Organic CompoundsVolatile Organic Compounds by SW846 8260

Initial weight: 7.69 g

100-41-4	Ethylbenzene	< 5.06	U	µg/kg dry	5.06	0.73	1	SW846 8260C	15-Nov-17	16-Nov-17	MP	1719306	X
87-68-3	Hexachlorobutadiene	< 5.06	U	µg/kg dry	5.06	2.54	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.1	U	µg/kg dry	10.1	6.20	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 5.06	U	µg/kg dry	5.06	1.00	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 5.06	U	µg/kg dry	5.06	1.09	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 5.06	U	µg/kg dry	5.06	1.86	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.1	U	µg/kg dry	10.1	2.60	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 10.1	U	µg/kg dry	10.1	2.01	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 30.3	U	µg/kg dry	30.3	26.3	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 5.06	U	µg/kg dry	5.06	0.82	1	"	"	"	"	"	X
100-42-5	Styrene	< 5.06	U	µg/kg dry	5.06	1.02	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 5.06	U	µg/kg dry	5.06	4.30	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.06	U	µg/kg dry	5.06	4.28	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 5.06	U	µg/kg dry	5.06	1.73	1	"	"	"	"	"	X
108-88-3	Toluene	< 5.06	U	µg/kg dry	5.06	1.64	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 5.06	U	µg/kg dry	5.06	1.77	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 5.06	U	µg/kg dry	5.06	3.73	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 5.06	U	µg/kg dry	5.06	1.59	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 5.06	U	µg/kg dry	5.06	1.68	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 5.06	U	µg/kg dry	5.06	3.67	1	"	"	"	"	"	X
79-01-6	Trichloroethene	408	E	µg/kg dry	5.06	1.38	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 5.06	U	µg/kg dry	5.06	2.73	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 5.06	U	µg/kg dry	5.06	3.79	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 5.06	U	µg/kg dry	5.06	1.23	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 5.06	U	µg/kg dry	5.06	0.87	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 5.06	U	µg/kg dry	5.06	1.71	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 10.1	U	µg/kg dry	10.1	0.91	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 5.06	U	µg/kg dry	5.06	1.42	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 10.1	U	µg/kg dry	10.1	7.97	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 5.06	U	µg/kg dry	5.06	4.58	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 5.06	U	µg/kg dry	5.06	1.69	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 5.06	U	µg/kg dry	5.06	2.73	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 5.06	U	µg/kg dry	5.06	0.94	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 50.6	U	µg/kg dry	50.6	33.1	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 101	U	µg/kg dry	101	87.8	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 25.3	U	µg/kg dry	25.3	11.5	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1010	U	µg/kg dry	1010	189	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	91			70-130 %		"	"	"	"	"	"	
2037-26-5	Toluene-d8	104			70-130 %		"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	127			70-130 %		"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	112			70-130 %		"	"	"	"	"	"	

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Sample Identification

SB-26

SC41491-05

Client Project #

17-217

Matrix

Soil

Collection Date/Time

09-Nov-17 11:54

Received

10-Nov-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Re-analysis of Volatile Organic Compounds by SW846 8260			GS1										
Prepared by method SW846 5035A Soil (high level)						Initial weight: 8.17 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 123	U, D	µg/kg dry	123	62.3	50	SW846 8260C	17-Nov-17	17-Nov-17	MP	1719431	X
67-64-1	Acetone	< 1230	U, D	µg/kg dry	1230	491	50	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 123	U, D	µg/kg dry	123	118	50	"	"	"	"	"	X
71-43-2	Benzene	< 123	U, D	µg/kg dry	123	32.6	50	"	"	"	"	"	X
108-86-1	Bromobenzene	< 123	U, D	µg/kg dry	123	32.8	50	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 123	U, D	µg/kg dry	123	62.0	50	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 123	U, D	µg/kg dry	123	81.9	50	"	"	"	"	"	X
75-25-2	Bromoform	< 123	U, D	µg/kg dry	123	117	50	"	"	"	"	"	X
74-83-9	Bromomethane	< 246	U, D	µg/kg dry	246	111	50	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 246	U, D	µg/kg dry	246	220	50	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 123	U, D	µg/kg dry	123	35.1	50	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 123	U, D	µg/kg dry	123	22.4	50	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 123	U, D	µg/kg dry	123	27.5	50	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 246	U, D	µg/kg dry	246	78.6	50	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 123	U, D	µg/kg dry	123	100	50	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 123	U, D	µg/kg dry	123	38.4	50	"	"	"	"	"	X
75-00-3	Chloroethane	< 246	U, D	µg/kg dry	246	68.2	50	"	"	"	"	"	X
67-66-3	Chloroform	< 123	U, D	µg/kg dry	123	66.0	50	"	"	"	"	"	X
74-87-3	Chloromethane	< 246	U, D	µg/kg dry	246	50.7	50	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 123	U, D	µg/kg dry	123	30.6	50	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 123	U, D	µg/kg dry	123	28.9	50	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 246	U, D	µg/kg dry	246	177	50	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 123	U, D	µg/kg dry	123	83.3	50	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 123	U, D	µg/kg dry	123	82.4	50	"	"	"	"	"	X
74-95-3	Dibromomethane	< 123	U, D	µg/kg dry	123	63.9	50	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 123	U, D	µg/kg dry	123	31.9	50	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 123	U, D	µg/kg dry	123	26.7	50	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 123	U, D	µg/kg dry	123	36.4	50	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 246	U, D	µg/kg dry	246	46.6	50	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 123	U, D	µg/kg dry	123	32.2	50	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 123	U, D	µg/kg dry	123	44.0	50	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 123	U, D	µg/kg dry	123	64.2	50	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	372	D	µg/kg dry	123	45.6	50	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 123	U, D	µg/kg dry	123	65.1	50	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 123	U, D	µg/kg dry	123	64.4	50	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 123	U, D	µg/kg dry	123	63.6	50	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 123	U, D	µg/kg dry	123	58.0	50	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 123	U, D	µg/kg dry	123	39.6	50	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 123	U, D	µg/kg dry	123	74.1	50	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 123	U, D	µg/kg dry	123	64.5	50	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 123	U, D	µg/kg dry	123	17.7	50	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 123	U, D	µg/kg dry	123	61.7	50	"	"	"	"	"	X

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Sample Identification

SB-26

SC41491-05

Client Project #

17-217

Matrix

Soil

Collection Date/Time

09-Nov-17 11:54

Received

10-Nov-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Volatile Organic Compounds

Re-analysis of Volatile Organic Compounds
by SW846 8260

GS1

Initial weight: 8.17 g

591-78-6	2-Hexanone (MBK)	< 246	U, D	µg/kg dry	246	151	50	SW846 8260C	17-Nov-17	17-Nov-17	MP	1719431	X
98-82-8	Isopropylbenzene	< 123	U, D	µg/kg dry	123	24.2	50	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 123	U, D	µg/kg dry	123	26.4	50	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	51.6	J, D	µg/kg dry	123	45.2	50	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 246	U, D	µg/kg dry	246	63.1	50	"	"	"	"	"	X
75-09-2	Methylene chloride	< 246	U, D	µg/kg dry	246	48.8	50	"	"	"	"	"	X
91-20-3	Naphthalene	< 123	U, D	µg/kg dry	123	73.1	50	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 123	U, D	µg/kg dry	123	19.9	50	"	"	"	"	"	X
100-42-5	Styrene	< 123	U, D	µg/kg dry	123	24.7	50	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 123	U, D	µg/kg dry	123	104	50	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 123	U, D	µg/kg dry	123	104	50	"	"	"	"	"	X
127-18-4	Tetrachloroethene	131	D	µg/kg dry	123	42.0	50	"	"	"	"	"	X
108-88-3	Toluene	< 123	U, D	µg/kg dry	123	39.8	50	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 123	U, D	µg/kg dry	123	43.1	50	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 123	U, D	µg/kg dry	123	90.5	50	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 123	U, D	µg/kg dry	123	38.6	50	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 123	U, D	µg/kg dry	123	40.8	50	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 123	U, D	µg/kg dry	123	89.1	50	"	"	"	"	"	X
79-01-6	Trichloroethene	32,900	D, E	µg/kg dry	123	33.5	50	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 123	U, D	µg/kg dry	123	66.2	50	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 123	U, D	µg/kg dry	123	92.1	50	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 123	U, D	µg/kg dry	123	29.8	50	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 123	U, D	µg/kg dry	123	21.1	50	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 123	U, D	µg/kg dry	123	41.5	50	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 246	U, D	µg/kg dry	246	22.1	50	"	"	"	"	"	X
95-47-6	o-Xylene	< 123	U, D	µg/kg dry	123	34.4	50	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 246	U, D	µg/kg dry	246	194	50	"	"	"	"	"	X
60-29-7	Ethyl ether	< 123	U, D	µg/kg dry	123	111	50	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 123	U, D	µg/kg dry	123	41.0	50	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 123	U, D	µg/kg dry	123	66.2	50	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 123	U, D	µg/kg dry	123	22.8	50	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 1230	U, D	µg/kg dry	1230	804	50	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 2460	U, D	µg/kg dry	2460	2130	50	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 614	U, D	µg/kg dry	614	280	50	"	"	"	"	"	X
64-17-5	Ethanol	< 24600	U, D	µg/kg dry	24600	4580	50	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	94			70-130 %		"	"	"	"	"	"	
2037-26-5	Toluene-d8	102			70-130 %		"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	105			70-130 %		"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	99			70-130 %		"	"	"	"	"	"	

Re-analysis of Volatile Organic Compounds
by SW846 8260

GS1

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Sample Identification

SB-26

SC41491-05

Client Project

17-217

Matrix

Soil

Collection Date/Time

09-Nov-17 11:54

Received

10-Nov-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Re-analysis of Volatile Organic Compounds				GS1									
by SW846 8260													
Prepared by method SW846 5035A Soil (high level)				Initial weight: 8.17 g									
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 614	U, D	µg/kg dry	614	311	250	SW846 8260C	20-Nov-17	20-Nov-17	MP	1719513	X
67-64-1	Acetone	< 6140	U, D	µg/kg dry	6140	2460	250	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 614	U, D	µg/kg dry	614	590	250	"	"	"	"	"	X
71-43-2	Benzene	< 614	U, D	µg/kg dry	614	163	250	"	"	"	"	"	X
108-86-1	Bromobenzene	< 614	U, D	µg/kg dry	614	164	250	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 614	U, D	µg/kg dry	614	310	250	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 614	U, D	µg/kg dry	614	410	250	"	"	"	"	"	X
75-25-2	Bromoform	< 614	U, D	µg/kg dry	614	586	250	"	"	"	"	"	X
74-83-9	Bromomethane	< 1230	U, D	µg/kg dry	1230	555	250	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 1230	U, D	µg/kg dry	1230	1100	250	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 614	U, D	µg/kg dry	614	176	250	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 614	U, D	µg/kg dry	614	112	250	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 614	U, D	µg/kg dry	614	138	250	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 1230	U, D	µg/kg dry	1230	393	250	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 614	U, D	µg/kg dry	614	502	250	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 614	U, D	µg/kg dry	614	192	250	"	"	"	"	"	X
75-00-3	Chloroethane	< 1230	U, D	µg/kg dry	1230	341	250	"	"	"	"	"	X
67-66-3	Chloroform	< 614	U, D	µg/kg dry	614	330	250	"	"	"	"	"	X
74-87-3	Chloromethane	< 1230	U, D	µg/kg dry	1230	254	250	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 614	U, D	µg/kg dry	614	153	250	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 614	U, D	µg/kg dry	614	144	250	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 1230	U, D	µg/kg dry	1230	887	250	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 614	U, D	µg/kg dry	614	416	250	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 614	U, D	µg/kg dry	614	412	250	"	"	"	"	"	X
74-95-3	Dibromomethane	< 614	U, D	µg/kg dry	614	319	250	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 614	U, D	µg/kg dry	614	160	250	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 614	U, D	µg/kg dry	614	133	250	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 614	U, D	µg/kg dry	614	182	250	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 1230	U, D	µg/kg dry	1230	233	250	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 614	U, D	µg/kg dry	614	161	250	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 614	U, D	µg/kg dry	614	220	250	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 614	U, D	µg/kg dry	614	321	250	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	571	J, D	µg/kg dry	614	228	250	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 614	U, D	µg/kg dry	614	326	250	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 614	U, D	µg/kg dry	614	322	250	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 614	U, D	µg/kg dry	614	318	250	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 614	U, D	µg/kg dry	614	290	250	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 614	U, D	µg/kg dry	614	198	250	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 614	U, D	µg/kg dry	614	370	250	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 614	U, D	µg/kg dry	614	322	250	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 614	U, D	µg/kg dry	614	88.4	250	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 614	U, D	µg/kg dry	614	308	250	"	"	"	"	"	X

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Sample Identification

SB-26

SC41491-05

Client Project #

17-217

Matrix

Soil

Collection Date/Time

09-Nov-17 11:54

Received

10-Nov-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Volatile Organic Compounds

Re-analysis of Volatile Organic Compounds
by SW846 8260

GS1

Initial weight: 8.17 g

591-78-6	2-Hexanone (MBK)	< 1230	U, D	µg/kg dry	1230	754	250	SW846 8260C	20-Nov-17	20-Nov-17	MP	1719513	X
98-82-8	Isopropylbenzene	< 614	U, D	µg/kg dry	614	121	250	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 614	U, D	µg/kg dry	614	132	250	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 614	U, D	µg/kg dry	614	226	250	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 1230	U, D	µg/kg dry	1230	316	250	"	"	"	"	"	X
75-09-2	Methylene chloride	< 1230	U, D	µg/kg dry	1230	244	250	"	"	"	"	"	X
91-20-3	Naphthalene	< 614	U, D	µg/kg dry	614	365	250	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 614	U, D	µg/kg dry	614	99.5	250	"	"	"	"	"	X
100-42-5	Styrene	< 614	U, D	µg/kg dry	614	123	250	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 614	U, D	µg/kg dry	614	522	250	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 614	U, D	µg/kg dry	614	520	250	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 614	U, D	µg/kg dry	614	210	250	"	"	"	"	"	X
108-88-3	Toluene	< 614	U, D	µg/kg dry	614	199	250	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 614	U, D	µg/kg dry	614	216	250	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 614	U, D	µg/kg dry	614	453	250	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 614	U, D	µg/kg dry	614	193	250	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 614	U, D	µg/kg dry	614	204	250	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 614	U, D	µg/kg dry	614	445	250	"	"	"	"	"	X
79-01-6	Trichloroethene	43,200	D	µg/kg dry	614	168	250	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 614	U, D	µg/kg dry	614	331	250	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 614	U, D	µg/kg dry	614	461	250	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 614	U, D	µg/kg dry	614	149	250	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 614	U, D	µg/kg dry	614	106	250	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 614	U, D	µg/kg dry	614	208	250	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 1230	U, D	µg/kg dry	1230	111	250	"	"	"	"	"	X
95-47-6	o-Xylene	< 614	U, D	µg/kg dry	614	172	250	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 1230	U, D	µg/kg dry	1230	968	250	"	"	"	"	"	X
60-29-7	Ethyl ether	< 614	U, D	µg/kg dry	614	556	250	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 614	U, D	µg/kg dry	614	205	250	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 614	U, D	µg/kg dry	614	331	250	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 614	U, D	µg/kg dry	614	114	250	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 6140	U, D	µg/kg dry	6140	4020	250	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 12300	U, D	µg/kg dry	12300	10700	250	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 3070	U, D	µg/kg dry	3070	1400	250	"	"	"	"	"	X
64-17-5	Ethanol	< 123000	U, D	µg/kg dry	123000	22900	250	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	93			70-130 %		"	"	"	"	"	"	
2037-26-5	Toluene-d8	100			70-130 %		"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	104			70-130 %		"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	100			70-130 %		"	"	"	"	"	"	

General Chemistry Parameters

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-26

SC41491-05

Client Project #

17-217

Matrix

Soil

Collection Date/Time

09-Nov-17 11:54

Received

10-Nov-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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General Chemistry Parameters

% Solids	82.0	%					1	SM2540 G (11) Mod.	14-Nov-17	14-Nov-17	MBR	1719262	
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Subcontracted AnalysesSubcontracted AnalysesPrepared by method 409769-*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

7440-38-2	Arsenic	5.83		mg/kg	0.78	0.78	1	SW6010C	15-Nov-17	16-Nov-17 17:10	11301	409769A	
7440-39-3	Barium	33.9		mg/kg	0.39	0.39	1	"	"	"	"	"	
7440-43-9	Cadmium	< 0.39		mg/kg	0.39	0.39	1	"	"	"	"	"	
7440-47-3	Chromium	10.8		mg/kg	0.39	0.39	1	"	"	"	"	"	
7439-92-1	Lead	21.8		mg/kg	0.39	0.39	1	"	"	"	"	"	
7782-49-2	Selenium	< 1.6		mg/kg	1.6	1.6	1	"	"	"	"	"	
7440-22-4	Silver	< 0.39		mg/kg	0.39	0.39	1	"	"	"	"	"	

Prepared by method 409828-*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

7439-97-6	Mercury	< 0.03		mg/kg	0.03	0.03	1	SW7471B	16-Nov-17	16-Nov-17 15:00	11301	409828A	
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Subcontracted AnalysesPrepared by method 409770-SW8270*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

91-57-6	2-Methylnaphthalene	< 150		ug/kg	150	150	10	SW8270D (SIM)	15-Nov-17	16-Nov-17 15:44	11301	409770A	
83-32-9	Acenaphthene	< 150		ug/kg	150	150	10	"	"	"	"	"	
208-96-8	Acenaphthylene	< 150		ug/kg	150	150	10	"	"	"	"	"	
120-12-7	Anthracene	< 150		ug/kg	150	150	10	"	"	"	"	"	
56-55-3	Benz(a)anthracene	< 150		ug/kg	150	150	10	"	"	"	"	"	
50-32-8	Benzo(a)pyrene	< 150		ug/kg	150	150	10	"	"	"	"	"	
205-99-2	Benzo(b)fluoranthene	< 150		ug/kg	150	150	10	"	"	"	"	"	
191-24-2	Benzo(ghi)perylene	< 150		ug/kg	150	150	10	"	"	"	"	"	
207-08-9	Benzo(k)fluoranthene	< 150		ug/kg	150	150	10	"	"	"	"	"	
218-01-9	Chrysene	< 150		ug/kg	150	150	10	"	"	"	"	"	
53-70-3	Dibenz(a,h)anthracene	< 150		ug/kg	150	150	10	"	"	"	"	"	
206-44-0	Fluoranthene	< 150		ug/kg	150	150	10	"	"	"	"	"	
86-73-7	Fluorene	< 150		ug/kg	150	150	10	"	"	"	"	"	
193-39-5	Indeno(1,2,3-cd)pyrene	< 150		ug/kg	150	150	10	"	"	"	"	"	
91-20-3	Naphthalene	< 150		ug/kg	150	150	10	"	"	"	"	"	
85-01-8	Phenanthrene	< 150		ug/kg	150	150	10	"	"	"	"	"	
129-00-0	Pyrene	< 150		ug/kg	150	150	10	"	"	"	"	"	

Surrogate recoveries:

321-60-8	% 2-Fluorobiphenyl	47			30-130 %			"	"	"	"	"	
4165-60-0	% Nitrobenzene-d5	43			30-130 %			"	"	"	"	"	
98904-43-9	% Terphenyl-d14	56			30-130 %			"	"	"	"	"	

*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

Percent Solid	88	%					1	SW846-%Solid	09-Nov-17 11:54	15-Nov-17 21:34	11301	'[none]'	
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Sample Identification

SB-20

SC41491-06

Client Project #

17-217

Matrix

Soil

Collection Date/Time

09-Nov-17 12:35

Received

10-Nov-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Volatile Organic CompoundsPrepared by method Volatiles

VOC Extraction

Field
extracted

N/A

1

VOC Soil
Extraction

MBR

1719274

Re-analysis of Volatile Organic Compoundsby SW846 8260Prepared by method SW846 5035A Soil (low level)

Initial weight: 7.87 g

76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.26	U	µg/kg dry	5.26	2.67	1	SW846 8260C	16-Nov-17	16-Nov-17	MP	1719357	X
67-64-1	Acetone	33.7	J	µg/kg dry	52.6	21.0	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 5.26	U	µg/kg dry	5.26	5.05	1	"	"	"	"	"	X
71-43-2	Benzene	< 5.26	U	µg/kg dry	5.26	1.39	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 5.26	U	µg/kg dry	5.26	1.40	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.26	U	µg/kg dry	5.26	2.66	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 5.26	U	µg/kg dry	5.26	3.51	1	"	"	"	"	"	X
75-25-2	Bromoform	< 5.26	U	µg/kg dry	5.26	5.02	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 10.5	U	µg/kg dry	10.5	4.75	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.5	U	µg/kg dry	10.5	9.40	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 5.26	U	µg/kg dry	5.26	1.50	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 5.26	U	µg/kg dry	5.26	0.96	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 5.26	U	µg/kg dry	5.26	1.18	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 10.5	U	µg/kg dry	10.5	3.36	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 5.26	U	µg/kg dry	5.26	4.30	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 5.26	U	µg/kg dry	5.26	1.65	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 10.5	U	µg/kg dry	10.5	2.92	1	"	"	"	"	"	X
67-66-3	Chloroform	< 5.26	U	µg/kg dry	5.26	2.82	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 10.5	U	µg/kg dry	10.5	2.17	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 5.26	U	µg/kg dry	5.26	1.31	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 5.26	U	µg/kg dry	5.26	1.24	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 10.5	U	µg/kg dry	10.5	7.60	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 5.26	U	µg/kg dry	5.26	3.56	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 5.26	U	µg/kg dry	5.26	3.53	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 5.26	U	µg/kg dry	5.26	2.73	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 5.26	U	µg/kg dry	5.26	1.37	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 5.26	U	µg/kg dry	5.26	1.14	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 5.26	U	µg/kg dry	5.26	1.56	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 10.5	U	µg/kg dry	10.5	1.99	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 5.26	U	µg/kg dry	5.26	1.38	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 5.26	U	µg/kg dry	5.26	1.88	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 5.26	U	µg/kg dry	5.26	2.75	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	20.5		µg/kg dry	5.26	1.95	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 5.26	U	µg/kg dry	5.26	2.79	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 5.26	U	µg/kg dry	5.26	2.75	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 5.26	U	µg/kg dry	5.26	2.72	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 5.26	U	µg/kg dry	5.26	2.48	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 5.26	U	µg/kg dry	5.26	1.69	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 5.26	U	µg/kg dry	5.26	3.17	1	"	"	"	"	"	X

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Sample Identification

SB-20

SC41491-06

Client Project #

17-217

Matrix

Soil

Collection Date/Time

09-Nov-17 12:35

Received

10-Nov-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Volatile Organic CompoundsRe-analysis of Volatile Organic Compoundsby SW846 8260

Initial weight: 7.87 g

10061-02-6	trans-1,3-Dichloropropene	< 5.26	U	µg/kg dry	5.26	2.76	1	SW846 8260C	16-Nov-17	16-Nov-17	MP	1719357	X
100-41-4	Ethylbenzene	< 5.26	U	µg/kg dry	5.26	0.76	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 5.26	U	µg/kg dry	5.26	2.64	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.5	U	µg/kg dry	10.5	6.45	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 5.26	U	µg/kg dry	5.26	1.04	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 5.26	U	µg/kg dry	5.26	1.13	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 5.26	U	µg/kg dry	5.26	1.93	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.5	U	µg/kg dry	10.5	2.70	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 10.5	U	µg/kg dry	10.5	2.09	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 5.26	U	µg/kg dry	5.26	3.13	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 5.26	U	µg/kg dry	5.26	0.85	1	"	"	"	"	"	X
100-42-5	Styrene	< 5.26	U	µg/kg dry	5.26	1.06	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 5.26	U	µg/kg dry	5.26	4.47	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.26	U	µg/kg dry	5.26	4.45	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 5.26	U	µg/kg dry	5.26	1.80	1	"	"	"	"	"	X
108-88-3	Toluene	< 5.26	U	µg/kg dry	5.26	1.70	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 5.26	U	µg/kg dry	5.26	1.85	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 5.26	U	µg/kg dry	5.26	3.87	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 5.26	U	µg/kg dry	5.26	1.65	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 5.26	U	µg/kg dry	5.26	1.75	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 5.26	U	µg/kg dry	5.26	3.81	1	"	"	"	"	"	X
79-01-6	Trichloroethene	2.52	J	µg/kg dry	5.26	1.44	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 5.26	U	µg/kg dry	5.26	2.83	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 5.26	U	µg/kg dry	5.26	3.94	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 5.26	U	µg/kg dry	5.26	1.28	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 5.26	U	µg/kg dry	5.26	0.90	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	5.18	J	µg/kg dry	5.26	1.78	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 10.5	U	µg/kg dry	10.5	0.95	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 5.26	U	µg/kg dry	5.26	1.47	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 10.5	U	µg/kg dry	10.5	8.29	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 5.26	U	µg/kg dry	5.26	4.76	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 5.26	U	µg/kg dry	5.26	1.76	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 5.26	U	µg/kg dry	5.26	2.83	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 5.26	U	µg/kg dry	5.26	0.98	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 52.6	U	µg/kg dry	52.6	34.4	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 105	U	µg/kg dry	105	91.3	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 26.3	U	µg/kg dry	26.3	12.0	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1050	U	µg/kg dry	1050	196	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	89			70-130 %		"	"	"	"	"	"	
2037-26-5	Toluene-d8	106			70-130 %		"	"	"	"	"	"	

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Sample Identification

SB-20

SC41491-06

Client Project #

17-217

Matrix

Soil

Collection Date/Time

09-Nov-17 12:35

Received

10-Nov-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Volatile Organic CompoundsRe-analysis of Volatile Organic Compoundsby SW846 8260

Initial weight: 7.87 g

17060-07-0	1,2-Dichloroethane-d4	148	SGCMS VOC		70-130 %			SW846 8260C	16-Nov-17	16-Nov-17	MP	1719357	
1868-53-7	Dibromofluoromethane	122			70-130 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	79.7	%					1	SM2540 G (11) Mod.	14-Nov-17	14-Nov-17	MBR	1719262	
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Subcontracted AnalysesSubcontracted AnalysesPrepared by method 409769-

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

7440-38-2	Arsenic	9.14		mg/kg	0.87	0.87	1	SW6010C	15-Nov-17	16-Nov-17 17:13	11301	409769A	
7440-39-3	Barium	82.7		mg/kg	0.43	0.43	1	"	"	"	"	"	
7440-43-9	Cadmium	0.78		mg/kg	0.43	0.43	1	"	"	"	"	"	
7440-47-3	Chromium	16.7		mg/kg	0.43	0.43	1	"	"	"	"	"	
7439-92-1	Lead	255		mg/kg	4.3	4.3	10	"	"	17-Nov-17 11:43	"	"	
7782-49-2	Selenium	< 1.7		mg/kg	1.7	1.7	1	"	"	16-Nov-17 17:13	"	"	
7440-22-4	Silver	< 0.43		mg/kg	0.43	0.43	1	"	"	"	"	"	

Prepared by method 409828-

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

7439-97-6	Mercury	0.55		mg/kg	0.03	0.03	1	SW7471B	16-Nov-17	16-Nov-17 15:02	11301	409828A	
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Subcontracted AnalysesPrepared by method 409770-SW8270

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

91-57-6	2-Methylnaphthalene	< 160		ug/kg	160	160	10	SW8270D (SIM)	15-Nov-17	16-Nov-17 16:06	11301	409770A	
83-32-9	Acenaphthene	170		ug/kg	160	160	10	"	"	"	"	"	
208-96-8	Acenaphthylene	< 160		ug/kg	160	160	10	"	"	"	"	"	
120-12-7	Anthracene	420		ug/kg	160	160	10	"	"	"	"	"	
56-55-3	Benzo(a)anthracene	590		ug/kg	160	160	10	"	"	"	"	"	
50-32-8	Benzo(a)pyrene	520		ug/kg	160	160	10	"	"	"	"	"	
205-99-2	Benzo(b)fluoranthene	420		ug/kg	160	160	10	"	"	"	"	"	
191-24-2	Benzo(ghi)perylene	300		ug/kg	160	160	10	"	"	"	"	"	
207-08-9	Benzo(k)fluoranthene	490		ug/kg	160	160	10	"	"	"	"	"	
218-01-9	Chrysene	660		ug/kg	160	160	10	"	"	"	"	"	
53-70-3	Dibenz(a,h)anthracene	< 160		ug/kg	160	160	10	"	"	"	"	"	
206-44-0	Fluoranthene	1,300		ug/kg	160	160	10	"	"	"	"	"	
86-73-7	Fluorene	180		ug/kg	160	160	10	"	"	"	"	"	
193-39-5	Indeno(1,2,3-cd)pyrene	390		ug/kg	160	160	10	"	"	"	"	"	
91-20-3	Naphthalene	< 160		ug/kg	160	160	10	"	"	"	"	"	
85-01-8	Phenanthrene	1,100		ug/kg	160	160	10	"	"	"	"	"	
129-00-0	Pyrene	1,100		ug/kg	160	160	10	"	"	"	"	"	

Surrogate recoveries:

321-60-8	% 2-Fluorobiphenyl	52			30-130 %			"	"	"	"	"	
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Sample Identification

SB-20

SC41491-06

Client Project #

17-217

Matrix

Soil

Collection Date/Time

09-Nov-17 12:35

Received

10-Nov-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

4165-60-0	% Nitrobenzene-d5	35			30-130 %			SW8270D (SIM)	15-Nov-17	15-Nov-17 16:30	11301	409770A	
98904-43-9	% Terphenyl-d14	58			30-130 %			"	"	"	"	"	"

*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

Percent Solid		80		%			1	SW846-%Solid	09-Nov-17 12:35	15-Nov-17 21:34	11301	'[none]'	
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Sample Identification

SB-21

SC41491-07

Client Project #

17-217

Matrix

Soil

Collection Date/Time

09-Nov-17 13:00

Received

10-Nov-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Volatile Organic CompoundsPrepared by method Volatiles

VOC Extraction

Field
extracted

N/A

1

VOC Soil
Extraction

MBR

1719274

Re-analysis of Volatile Organic Compoundsby SW846 8260Prepared by method SW846 5035A Soil (low level)

Initial weight: 6.19 g

76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 6.16	U	µg/kg dry	6.16	3.13	1	SW846 8260C	16-Nov-17	16-Nov-17	MP	1719357	X
67-64-1	Acetone	53.0	J	µg/kg dry	61.6	24.7	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 6.16	U	µg/kg dry	6.16	5.92	1	"	"	"	"	"	X
71-43-2	Benzene	< 6.16	U	µg/kg dry	6.16	1.63	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 6.16	U	µg/kg dry	6.16	1.65	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 6.16	U	µg/kg dry	6.16	3.11	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 6.16	U	µg/kg dry	6.16	4.11	1	"	"	"	"	"	X
75-25-2	Bromoform	< 6.16	U	µg/kg dry	6.16	5.88	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 12.3	U	µg/kg dry	12.3	5.57	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 12.3	U	µg/kg dry	12.3	11.0	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 6.16	U	µg/kg dry	6.16	1.76	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 6.16	U	µg/kg dry	6.16	1.12	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 6.16	U	µg/kg dry	6.16	1.38	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 12.3	U	µg/kg dry	12.3	3.95	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 6.16	U	µg/kg dry	6.16	5.04	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 6.16	U	µg/kg dry	6.16	1.93	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 12.3	U	µg/kg dry	12.3	3.42	1	"	"	"	"	"	X
67-66-3	Chloroform	< 6.16	U	µg/kg dry	6.16	3.31	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 12.3	U	µg/kg dry	12.3	2.55	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 6.16	U	µg/kg dry	6.16	1.54	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 6.16	U	µg/kg dry	6.16	1.45	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 12.3	U	µg/kg dry	12.3	8.91	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 6.16	U	µg/kg dry	6.16	4.18	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 6.16	U	µg/kg dry	6.16	4.14	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 6.16	U	µg/kg dry	6.16	3.21	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 6.16	U	µg/kg dry	6.16	1.60	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 6.16	U	µg/kg dry	6.16	1.34	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 6.16	U	µg/kg dry	6.16	1.82	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 12.3	U	µg/kg dry	12.3	2.34	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 6.16	U	µg/kg dry	6.16	1.62	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 6.16	U	µg/kg dry	6.16	2.21	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 6.16	U	µg/kg dry	6.16	3.22	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	12.6		µg/kg dry	6.16	2.29	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	7.35		µg/kg dry	6.16	3.27	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 6.16	U	µg/kg dry	6.16	3.23	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 6.16	U	µg/kg dry	6.16	3.19	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 6.16	U	µg/kg dry	6.16	2.91	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 6.16	U	µg/kg dry	6.16	1.99	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 6.16	U	µg/kg dry	6.16	3.72	1	"	"	"	"	"	X

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Sample Identification

SB-21

SC41491-07

Client Project #

17-217

Matrix

Soil

Collection Date/Time

09-Nov-17 13:00

Received

10-Nov-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Volatile Organic CompoundsRe-analysis of Volatile Organic Compoundsby SW846 8260

Initial weight: 6.19 g

10061-02-6	trans-1,3-Dichloropropene	< 6.16	U	µg/kg dry	6.16	3.24	1	SW846 8260C	16-Nov-17	16-Nov-17	MP	1719357	X
100-41-4	Ethylbenzene	< 6.16	U	µg/kg dry	6.16	0.89	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 6.16	U	µg/kg dry	6.16	3.09	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 12.3	U	µg/kg dry	12.3	7.56	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 6.16	U	µg/kg dry	6.16	1.21	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 6.16	U	µg/kg dry	6.16	1.33	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 6.16	U	µg/kg dry	6.16	2.27	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 12.3	U	µg/kg dry	12.3	3.17	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 12.3	U	µg/kg dry	12.3	2.45	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 6.16	U	µg/kg dry	6.16	3.67	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 6.16	U	µg/kg dry	6.16	1.00	1	"	"	"	"	"	X
100-42-5	Styrene	< 6.16	U	µg/kg dry	6.16	1.24	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 6.16	U	µg/kg dry	6.16	5.24	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 6.16	U	µg/kg dry	6.16	5.22	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 6.16	U	µg/kg dry	6.16	2.11	1	"	"	"	"	"	X
108-88-3	Toluene	< 6.16	U	µg/kg dry	6.16	2.00	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 6.16	U	µg/kg dry	6.16	2.16	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 6.16	U	µg/kg dry	6.16	4.54	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 6.16	U	µg/kg dry	6.16	1.94	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 6.16	U	µg/kg dry	6.16	2.05	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 6.16	U	µg/kg dry	6.16	4.47	1	"	"	"	"	"	X
79-01-6	Trichloroethene	2.15	J	µg/kg dry	6.16	1.68	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 6.16	U	µg/kg dry	6.16	3.32	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 6.16	U	µg/kg dry	6.16	4.62	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 6.16	U	µg/kg dry	6.16	1.50	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 6.16	U	µg/kg dry	6.16	1.06	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	28.6		µg/kg dry	6.16	2.08	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 12.3	U	µg/kg dry	12.3	1.11	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 6.16	U	µg/kg dry	6.16	1.73	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 12.3	U	µg/kg dry	12.3	9.72	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 6.16	U	µg/kg dry	6.16	5.59	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 6.16	U	µg/kg dry	6.16	2.06	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 6.16	U	µg/kg dry	6.16	3.32	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 6.16	U	µg/kg dry	6.16	1.15	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 61.6	U	µg/kg dry	61.6	40.3	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 123	U	µg/kg dry	123	107	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 30.8	U	µg/kg dry	30.8	14.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1230	U	µg/kg dry	1230	230	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	87			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	104			70-130 %			"	"	"	"	"	

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Sample Identification

SB-21

SC41491-07

Client Project #

17-217

Matrix

Soil

Collection Date/Time

09-Nov-17 13:00

Received

10-Nov-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Volatile Organic CompoundsRe-analysis of Volatile Organic Compoundsby SW846 8260

Initial weight: 6.19 g

17060-07-0	1,2-Dichloroethane-d4	137	SGCMS VOC		70-130 %			SW846 8260C	16-Nov-17	16-Nov-17	MP	1719357	
1868-53-7	Dibromofluoromethane	118			70-130 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	81.0	%					1	SM2540 G (11) Mod.	14-Nov-17	14-Nov-17	MBR	1719262	
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Subcontracted AnalysesSubcontracted AnalysesPrepared by method 409769-

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

7440-38-2	Arsenic	10.2		mg/kg	0.88	0.88	1	SW6010C	15-Nov-17	16-Nov-17 17:21	11301	409769A	
7440-39-3	Barium	65.0		mg/kg	0.44	0.44	1	"	"	"	"	"	
7440-43-9	Cadmium	0.66		mg/kg	0.44	0.44	1	"	"	"	"	"	
7440-47-3	Chromium	14.5		mg/kg	0.44	0.44	1	"	"	"	"	"	
7439-92-1	Lead	311		mg/kg	4.4	4.4	10	"	"	17-Nov-17 11:46	"	"	
7782-49-2	Selenium	< 1.8		mg/kg	1.8	1.8	1	"	"	16-Nov-17 17:21	"	"	
7440-22-4	Silver	< 0.44		mg/kg	0.44	0.44	1	"	"	"	"	"	

Prepared by method 409828-

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

7439-97-6	Mercury	0.25		mg/kg	0.03	0.03	1	SW7471B	16-Nov-17	16-Nov-17 15:04	11301	409828A	
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Subcontracted AnalysesPrepared by method 409770-SW8270

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

91-57-6	2-Methylnaphthalene	< 160		ug/kg	160	160	10	SW8270D (SIM)	15-Nov-17	16-Nov-17 11:33	11301	409770A	
83-32-9	Acenaphthene	< 160		ug/kg	160	160	10	"	"	"	"	"	
208-96-8	Acenaphthylene	< 160		ug/kg	160	160	10	"	"	"	"	"	
120-12-7	Anthracene	< 160		ug/kg	160	160	10	"	"	"	"	"	
56-55-3	Benz(a)anthracene	< 160		ug/kg	160	160	10	"	"	"	"	"	
50-32-8	Benzo(a)pyrene	< 160		ug/kg	160	160	10	"	"	"	"	"	
205-99-2	Benzo(b)fluoranthene	< 160		ug/kg	160	160	10	"	"	"	"	"	
191-24-2	Benzo(ghi)perylene	< 160		ug/kg	160	160	10	"	"	"	"	"	
207-08-9	Benzo(k)fluoranthene	< 160		ug/kg	160	160	10	"	"	"	"	"	
218-01-9	Chrysene	< 160		ug/kg	160	160	10	"	"	"	"	"	
53-70-3	Dibenz(a,h)anthracene	< 160		ug/kg	160	160	10	"	"	"	"	"	
206-44-0	Fluoranthene	< 160		ug/kg	160	160	10	"	"	"	"	"	
86-73-7	Fluorene	< 160		ug/kg	160	160	10	"	"	"	"	"	
193-39-5	Indeno(1,2,3-cd)pyrene	< 160		ug/kg	160	160	10	"	"	"	"	"	
91-20-3	Naphthalene	< 160		ug/kg	160	160	10	"	"	"	"	"	
85-01-8	Phenanthrene	< 160		ug/kg	160	160	10	"	"	"	"	"	
129-00-0	Pyrene	< 160		ug/kg	160	160	10	"	"	"	"	"	

Surrogate recoveries:

321-60-8	% 2-Fluorobiphenyl	38			30-130 %			"	"	"	"	"	
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Sample Identification

SB-21

SC41491-07

Client Project #

17-217

Matrix

Soil

Collection Date/Time

09-Nov-17 13:00

Received

10-Nov-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

4165-60-0	% Nitrobenzene-d5	12			30-130 %			SW8270D (SIM)	15-Nov-17	15-Nov-17 11:00	11301	409770A	
98904-43-9	% Terphenyl-d14	47			30-130 %			"	"	"	"	"	"

*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

Percent Solid	80	%				1	SW846-%Solid	09-Nov-17 13:00	15-Nov-17 21:34	11301	'[none]'		
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Sample Identification

SB-22

SC41491-08

Client Project #

17-217

Matrix

Soil

Collection Date/Time

09-Nov-17 13:24

Received

10-Nov-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Volatile Organic CompoundsPrepared by method Volatiles

VOC Extraction

Field
extracted

N/A

1

VOC Soil
Extraction

MBR

1719274

Volatile Organic Compounds by SW846 8260Prepared by method SW846 5035A Soil (low level)Initial weight: 7.35 g

76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 4.83	U	µg/kg dry	4.83	2.45	1	SW846 8260C	15-Nov-17	16-Nov-17	MP	1719306	X
67-64-1	Acetone	< 48.3	U	µg/kg dry	48.3	19.3	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 4.83	U	µg/kg dry	4.83	4.64	1	"	"	"	"	"	X
71-43-2	Benzene	< 4.83	U	µg/kg dry	4.83	1.28	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 4.83	U	µg/kg dry	4.83	1.29	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 4.83	U	µg/kg dry	4.83	2.44	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 4.83	U	µg/kg dry	4.83	3.22	1	"	"	"	"	"	X
75-25-2	Bromoform	< 4.83	U	µg/kg dry	4.83	4.61	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 9.66	U	µg/kg dry	9.66	4.36	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 9.66	U	µg/kg dry	9.66	8.64	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 4.83	U	µg/kg dry	4.83	1.38	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 4.83	U	µg/kg dry	4.83	0.88	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 4.83	U	µg/kg dry	4.83	1.08	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 9.66	U	µg/kg dry	9.66	3.09	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 4.83	U	µg/kg dry	4.83	3.95	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 4.83	U	µg/kg dry	4.83	1.51	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 9.66	U	µg/kg dry	9.66	2.68	1	"	"	"	"	"	X
67-66-3	Chloroform	< 4.83	U	µg/kg dry	4.83	2.59	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 9.66	U	µg/kg dry	9.66	1.99	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 4.83	U	µg/kg dry	4.83	1.20	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 4.83	U	µg/kg dry	4.83	1.13	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 9.66	U	µg/kg dry	9.66	6.98	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 4.83	U	µg/kg dry	4.83	3.27	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 4.83	U	µg/kg dry	4.83	3.24	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 4.83	U	µg/kg dry	4.83	2.51	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.83	U	µg/kg dry	4.83	1.26	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.83	U	µg/kg dry	4.83	1.05	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.83	U	µg/kg dry	4.83	1.43	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 9.66	U	µg/kg dry	9.66	1.83	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 4.83	U	µg/kg dry	4.83	1.27	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 4.83	U	µg/kg dry	4.83	1.73	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 4.83	U	µg/kg dry	4.83	2.53	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 4.83	U	µg/kg dry	4.83	1.79	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 4.83	U	µg/kg dry	4.83	2.56	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 4.83	U	µg/kg dry	4.83	2.53	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 4.83	U	µg/kg dry	4.83	2.50	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 4.83	U	µg/kg dry	4.83	2.28	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 4.83	U	µg/kg dry	4.83	1.56	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 4.83	U	µg/kg dry	4.83	2.91	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 4.83	U	µg/kg dry	4.83	2.54	1	"	"	"	"	"	X

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Sample Identification

SB-22

SC41491-08

Client Project #

17-217

Matrix

Soil

Collection Date/Time

09-Nov-17 13:24

Received

10-Nov-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Volatile Organic CompoundsVolatile Organic Compounds by SW846 8260

Initial weight: 7.35 g

100-41-4	Ethylbenzene	< 4.83	U	µg/kg dry	4.83	0.70	1	SW846 8260C	15-Nov-17	16-Nov-17	MP	1719306	X
87-68-3	Hexachlorobutadiene	< 4.83	U	µg/kg dry	4.83	2.42	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 9.66	U	µg/kg dry	9.66	5.93	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 4.83	U	µg/kg dry	4.83	0.95	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 4.83	U	µg/kg dry	4.83	1.04	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 4.83	U	µg/kg dry	4.83	1.78	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 9.66	U	µg/kg dry	9.66	2.48	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 9.66	U	µg/kg dry	9.66	1.92	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.83	U	µg/kg dry	4.83	4.35	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 4.83	U	µg/kg dry	4.83	0.78	1	"	"	"	"	"	X
100-42-5	Styrene	< 4.83	U	µg/kg dry	4.83	0.97	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 4.83	U	µg/kg dry	4.83	4.11	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 4.83	U	µg/kg dry	4.83	4.09	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	8.28		µg/kg dry	4.83	1.65	1	"	"	"	"	"	X
108-88-3	Toluene	40.0		µg/kg dry	4.83	1.56	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 4.83	U	µg/kg dry	4.83	1.70	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.83	U	µg/kg dry	4.83	3.56	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 4.83	U	µg/kg dry	4.83	1.52	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	3.63	J	µg/kg dry	4.83	1.60	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 4.83	U	µg/kg dry	4.83	3.50	1	"	"	"	"	"	X
79-01-6	Trichloroethene	136		µg/kg dry	4.83	1.32	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 4.83	U	µg/kg dry	4.83	2.60	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 4.83	U	µg/kg dry	4.83	3.62	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 4.83	U	µg/kg dry	4.83	1.17	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 4.83	U	µg/kg dry	4.83	0.83	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 4.83	U	µg/kg dry	4.83	1.63	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 9.66	U	µg/kg dry	9.66	0.87	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 4.83	U	µg/kg dry	4.83	1.35	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 9.66	U	µg/kg dry	9.66	7.61	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 4.83	U	µg/kg dry	4.83	4.38	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 4.83	U	µg/kg dry	4.83	1.61	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 4.83	U	µg/kg dry	4.83	2.60	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 4.83	U	µg/kg dry	4.83	0.90	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 48.3	U	µg/kg dry	48.3	31.6	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 96.6	U	µg/kg dry	96.6	83.9	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 24.1	U	µg/kg dry	24.1	11.0	1	"	"	"	"	"	X
64-17-5	Ethanol	< 966	U	µg/kg dry	966	180	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	96			70-130 %		"	"	"	"	"	"	
2037-26-5	Toluene-d8	104			70-130 %		"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	127			70-130 %		"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	112			70-130 %		"	"	"	"	"	"	

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Sample Identification

SB-22

SC41491-08

Client Project #

17-217

Matrix

Soil

Collection Date/Time

09-Nov-17 13:24

Received

10-Nov-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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General Chemistry Parameters

% Solids	85.5	%					1	SM2540 G (11) Mod.	14-Nov-17	14-Nov-17	MBR	1719262	
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Subcontracted AnalysesSubcontracted AnalysesPrepared by method 409769-*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

7440-38-2	Arsenic	6.87		mg/kg	0.82	0.82	1	SW6010C	15-Nov-17	16-Nov-17 16:37	11301	409769A	
7440-39-3	Barium	38.7		mg/kg	0.41	0.41	1	"	"	"	"	"	
7440-43-9	Cadmium	< 0.41		mg/kg	0.41	0.41	1	"	"	"	"	"	
7440-47-3	Chromium	12.8		mg/kg	0.41	0.41	1	"	"	"	"	"	
7439-92-1	Lead	17.3		mg/kg	0.41	0.41	1	"	"	"	"	"	
7782-49-2	Selenium	< 1.6		mg/kg	1.6	1.6	1	"	"	"	"	"	
7440-22-4	Silver	< 0.41		mg/kg	0.41	0.41	1	"	"	"	"	"	

Prepared by method 409828-*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

7439-97-6	Mercury	0.03		mg/kg	0.03	0.03	1	SW7471B	16-Nov-17	16-Nov-17 15:06	11301	409828A	
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Subcontracted AnalysesPrepared by method 409770-SW8270*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

91-57-6	2-Methylnaphthalene	< 150		ug/kg	150	150	10	SW8270D (SIM)	15-Nov-17	16-Nov-17 11:55	11301	409770A	
83-32-9	Acenaphthene	< 150		ug/kg	150	150	10	"	"	"	"	"	
208-96-8	Acenaphthylene	< 150		ug/kg	150	150	10	"	"	"	"	"	
120-12-7	Anthracene	560		ug/kg	150	150	10	"	"	"	"	"	
56-55-3	Benz(a)anthracene	1,200		ug/kg	150	150	10	"	"	"	"	"	
50-32-8	Benzo(a)pyrene	1,200		ug/kg	150	150	10	"	"	"	"	"	
205-99-2	Benzo(b)fluoranthene	890		ug/kg	150	150	10	"	"	"	"	"	
191-24-2	Benzo(ghi)perylene	800		ug/kg	150	150	10	"	"	"	"	"	
207-08-9	Benzo(k)fluoranthene	1,100		ug/kg	150	150	10	"	"	"	"	"	
218-01-9	Chrysene	1,200		ug/kg	150	150	10	"	"	"	"	"	
53-70-3	Dibenz(a,h)anthracene	< 150		ug/kg	150	150	10	"	"	"	"	"	
206-44-0	Fluoranthene	2,100		ug/kg	150	150	10	"	"	"	"	"	
86-73-7	Fluorene	< 150		ug/kg	150	150	10	"	"	"	"	"	
193-39-5	Indeno(1,2,3-cd)pyrene	970		ug/kg	150	150	10	"	"	"	"	"	
91-20-3	Naphthalene	< 150		ug/kg	150	150	10	"	"	"	"	"	
85-01-8	Phenanthrene	1,400		ug/kg	150	150	10	"	"	"	"	"	
129-00-0	Pyrene	2,000		ug/kg	150	150	10	"	"	"	"	"	

Surrogate recoveries:

321-60-8	% 2-Fluorobiphenyl	58			30-130 %			"	"	"	"	"	
4165-60-0	% Nitrobenzene-d5	60			30-130 %			"	"	"	"	"	
98904-43-9	% Terphenyl-d14	60			30-130 %			"	"	"	"	"	

*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

Percent Solid	86	%					1	SW846-%Solid	09-Nov-17 13:24	15-Nov-17 21:34	11301	'[none]'	
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Sample Identification

SB-24

SC41491-09

Client Project #

17-217

Matrix

Soil

Collection Date/Time

09-Nov-17 14:06

Received

10-Nov-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Prepared by method Volatiles</u>													
	VOC Extraction	Field extracted		N/A			1	VOC Soil Extraction			MBR	1719274	
<u>Volatile Organic Compounds by SW846 8260</u> GS1													
<u>Prepared by method SW846 5035A Soil (high level)</u>													
Initial weight: 8.53 g													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 115	U, D	µg/kg dry	115	58.5	50	SW846 8260C	20-Nov-17	20-Nov-17	MP	1719513	X
67-64-1	Acetone	< 1150	U, D	µg/kg dry	1150	461	50	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 115	U, D	µg/kg dry	115	111	50	"	"	"	"	"	X
71-43-2	Benzene	< 115	U, D	µg/kg dry	115	30.6	50	"	"	"	"	"	X
108-86-1	Bromobenzene	< 115	U, D	µg/kg dry	115	30.8	50	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 115	U, D	µg/kg dry	115	58.2	50	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 115	U, D	µg/kg dry	115	76.9	50	"	"	"	"	"	X
75-25-2	Bromoform	< 115	U, D	µg/kg dry	115	110	50	"	"	"	"	"	X
74-83-9	Bromomethane	< 231	U, D	µg/kg dry	231	104	50	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 231	U, D	µg/kg dry	231	206	50	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 115	U, D	µg/kg dry	115	33.0	50	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 115	U, D	µg/kg dry	115	21.0	50	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 115	U, D	µg/kg dry	115	25.8	50	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 231	U, D	µg/kg dry	231	73.8	50	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 115	U, D	µg/kg dry	115	94.3	50	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 115	U, D	µg/kg dry	115	36.1	50	"	"	"	"	"	X
75-00-3	Chloroethane	< 231	U, D	µg/kg dry	231	64.0	50	"	"	"	"	"	X
67-66-3	Chloroform	< 115	U, D	µg/kg dry	115	61.9	50	"	"	"	"	"	X
74-87-3	Chloromethane	< 231	U, D	µg/kg dry	231	47.6	50	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 115	U, D	µg/kg dry	115	28.7	50	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 115	U, D	µg/kg dry	115	27.1	50	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 231	U, D	µg/kg dry	231	167	50	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 115	U, D	µg/kg dry	115	78.2	50	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 115	U, D	µg/kg dry	115	77.4	50	"	"	"	"	"	X
74-95-3	Dibromomethane	< 115	U, D	µg/kg dry	115	60.0	50	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 115	U, D	µg/kg dry	115	30.0	50	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 115	U, D	µg/kg dry	115	25.0	50	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 115	U, D	µg/kg dry	115	34.1	50	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 231	U, D	µg/kg dry	231	43.7	50	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 115	U, D	µg/kg dry	115	30.2	50	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 115	U, D	µg/kg dry	115	41.3	50	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 115	U, D	µg/kg dry	115	60.3	50	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	430	D	µg/kg dry	115	42.8	50	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 115	U, D	µg/kg dry	115	61.1	50	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 115	U, D	µg/kg dry	115	60.4	50	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 115	U, D	µg/kg dry	115	59.7	50	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 115	U, D	µg/kg dry	115	54.4	50	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 115	U, D	µg/kg dry	115	37.1	50	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 115	U, D	µg/kg dry	115	69.5	50	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 115	U, D	µg/kg dry	115	60.5	50	"	"	"	"	"	X

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Sample Identification

SB-24

SC41491-09

Client Project #

17-217

Matrix

Soil

Collection Date/Time

09-Nov-17 14:06

Received

10-Nov-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260				GS1	Initial weight: 8.53 g								
100-41-4	Ethylbenzene	< 115	U, D	µg/kg dry	115	16.6	50	SW846 8260C	20-Nov-17	20-Nov-17	MP	1719513	X
87-68-3	Hexachlorobutadiene	< 115	U, D	µg/kg dry	115	57.9	50	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 231	U, D	µg/kg dry	231	142	50	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 115	U, D	µg/kg dry	115	22.7	50	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 115	U, D	µg/kg dry	115	24.8	50	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 115	U, D	µg/kg dry	115	42.4	50	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 231	U, D	µg/kg dry	231	59.3	50	"	"	"	"	"	X
75-09-2	Methylene chloride	< 231	U, D	µg/kg dry	231	45.8	50	"	"	"	"	"	X
91-20-3	Naphthalene	< 115	U, D	µg/kg dry	115	68.6	50	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 115	U, D	µg/kg dry	115	18.7	50	"	"	"	"	"	X
100-42-5	Styrene	< 115	U, D	µg/kg dry	115	23.2	50	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 115	U, D	µg/kg dry	115	98.0	50	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 115	U, D	µg/kg dry	115	97.6	50	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 115	U, D	µg/kg dry	115	39.4	50	"	"	"	"	"	X
108-88-3	Toluene	< 115	U, D	µg/kg dry	115	37.4	50	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 115	U, D	µg/kg dry	115	40.5	50	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 115	U, D	µg/kg dry	115	85.0	50	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 115	U, D	µg/kg dry	115	36.2	50	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 115	U, D	µg/kg dry	115	38.3	50	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 115	U, D	µg/kg dry	115	83.6	50	"	"	"	"	"	X
79-01-6	Trichloroethene	1,550	D	µg/kg dry	115	31.5	50	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 115	U, D	µg/kg dry	115	62.2	50	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 115	U, D	µg/kg dry	115	86.5	50	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 115	U, D	µg/kg dry	115	28.0	50	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 115	U, D	µg/kg dry	115	19.8	50	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 115	U, D	µg/kg dry	115	39.0	50	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 231	U, D	µg/kg dry	231	20.8	50	"	"	"	"	"	X
95-47-6	o-Xylene	< 115	U, D	µg/kg dry	115	32.3	50	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 231	U, D	µg/kg dry	231	182	50	"	"	"	"	"	X
60-29-7	Ethyl ether	< 115	U, D	µg/kg dry	115	104	50	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 115	U, D	µg/kg dry	115	38.5	50	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 115	U, D	µg/kg dry	115	62.2	50	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 115	U, D	µg/kg dry	115	21.5	50	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 1150	U, D	µg/kg dry	1150	755	50	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 2310	U, D	µg/kg dry	2310	2000	50	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 577	U, D	µg/kg dry	577	263	50	"	"	"	"	"	X
64-17-5	Ethanol	< 23100	U, D	µg/kg dry	23100	4300	50	"	"	"	"	"	X
<i>Surrogate recoveries:</i>													
460-00-4	4-Bromofluorobenzene	95			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	100			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	105			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	99			70-130 %			"	"	"	"	"	

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<u>Sample Identification</u>		<u>Client Project #</u>					<u>Matrix</u>	<u>Collection Date/Time</u>		<u>Received</u>			
SB-24		17-217					Soil	09-Nov-17 14:06		10-Nov-17			
SC41491-09													
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	83.4		%			1	SM2540 G (11) Mod.	14-Nov-17	14-Nov-17	MBR	1719262	

Sample Identification

SB-25

SC41491-10

Client Project #

17-217

Matrix

Soil

Collection Date/Time

09-Nov-17 14:44

Received

10-Nov-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
<u>Prepared by method Volatiles</u>													
	VOC Extraction	Field extracted		N/A			1	VOC Soil Extraction			MBR	1719274	
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5035A Soil (low level)</u>													
Initial weight: 6.3 g													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.12	U	µg/kg dry	5.12	2.59	1	SW846 8260C	16-Nov-17	16-Nov-17	MP	1719357	X
67-64-1	Acetone	< 51.2	U	µg/kg dry	51.2	20.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 5.12	U	µg/kg dry	5.12	4.92	1	"	"	"	"	"	X
71-43-2	Benzene	< 5.12	U	µg/kg dry	5.12	1.36	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 5.12	U	µg/kg dry	5.12	1.37	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.12	U	µg/kg dry	5.12	2.58	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 5.12	U	µg/kg dry	5.12	3.41	1	"	"	"	"	"	X
75-25-2	Bromoform	< 5.12	U	µg/kg dry	5.12	4.88	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 10.2	U	µg/kg dry	10.2	4.62	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.2	U	µg/kg dry	10.2	9.15	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 5.12	U	µg/kg dry	5.12	1.46	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 5.12	U	µg/kg dry	5.12	0.93	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 5.12	U	µg/kg dry	5.12	1.15	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 10.2	U	µg/kg dry	10.2	3.27	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 5.12	U	µg/kg dry	5.12	4.19	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 5.12	U	µg/kg dry	5.12	1.60	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 10.2	U	µg/kg dry	10.2	2.84	1	"	"	"	"	"	X
67-66-3	Chloroform	< 5.12	U	µg/kg dry	5.12	2.75	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 10.2	U	µg/kg dry	10.2	2.11	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 5.12	U	µg/kg dry	5.12	1.27	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 5.12	U	µg/kg dry	5.12	1.20	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 10.2	U	µg/kg dry	10.2	7.39	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 5.12	U	µg/kg dry	5.12	3.47	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 5.12	U	µg/kg dry	5.12	3.43	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 5.12	U	µg/kg dry	5.12	2.66	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 5.12	U	µg/kg dry	5.12	1.33	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 5.12	U	µg/kg dry	5.12	1.11	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 5.12	U	µg/kg dry	5.12	1.51	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 10.2	U	µg/kg dry	10.2	1.94	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 5.12	U	µg/kg dry	5.12	1.34	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 5.12	U	µg/kg dry	5.12	1.83	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 5.12	U	µg/kg dry	5.12	2.68	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	8.97		µg/kg dry	5.12	1.90	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 5.12	U	µg/kg dry	5.12	2.71	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 5.12	U	µg/kg dry	5.12	2.68	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 5.12	U	µg/kg dry	5.12	2.65	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 5.12	U	µg/kg dry	5.12	2.42	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 5.12	U	µg/kg dry	5.12	1.65	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 5.12	U	µg/kg dry	5.12	3.09	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 5.12	U	µg/kg dry	5.12	2.69	1	"	"	"	"	"	X

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Sample Identification

SB-25

SC41491-10

Client Project #

17-217

Matrix

Soil

Collection Date/Time

09-Nov-17 14:44

Received

10-Nov-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Volatile Organic CompoundsVolatile Organic Compounds by SW846 8260

Initial weight: 6.3 g

100-41-4	Ethylbenzene	< 5.12	U	µg/kg dry	5.12	0.74	1	SW846 8260C	16-Nov-17	16-Nov-17	MP	1719357	X
87-68-3	Hexachlorobutadiene	< 5.12	U	µg/kg dry	5.12	2.57	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.2	U	µg/kg dry	10.2	6.28	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 5.12	U	µg/kg dry	5.12	1.01	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 5.12	U	µg/kg dry	5.12	1.10	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 5.12	U	µg/kg dry	5.12	1.88	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.2	U	µg/kg dry	10.2	2.63	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 10.2	U	µg/kg dry	10.2	2.03	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 5.12	U	µg/kg dry	5.12	3.04	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 5.12	U	µg/kg dry	5.12	0.83	1	"	"	"	"	"	X
100-42-5	Styrene	< 5.12	U	µg/kg dry	5.12	1.03	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 5.12	U	µg/kg dry	5.12	4.35	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.12	U	µg/kg dry	5.12	4.33	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 5.12	U	µg/kg dry	5.12	1.75	1	"	"	"	"	"	X
108-88-3	Toluene	< 5.12	U	µg/kg dry	5.12	1.66	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 5.12	U	µg/kg dry	5.12	1.80	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 5.12	U	µg/kg dry	5.12	3.77	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 5.12	U	µg/kg dry	5.12	1.61	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 5.12	U	µg/kg dry	5.12	1.70	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 5.12	U	µg/kg dry	5.12	3.71	1	"	"	"	"	"	X
79-01-6	Trichloroethene	25.0		µg/kg dry	5.12	1.40	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 5.12	U	µg/kg dry	5.12	2.76	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 5.12	U	µg/kg dry	5.12	3.84	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 5.12	U	µg/kg dry	5.12	1.24	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 5.12	U	µg/kg dry	5.12	0.88	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 5.12	U	µg/kg dry	5.12	1.73	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 10.2	U	µg/kg dry	10.2	0.92	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 5.12	U	µg/kg dry	5.12	1.43	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 10.2	U	µg/kg dry	10.2	8.06	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 5.12	U	µg/kg dry	5.12	4.64	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 5.12	U	µg/kg dry	5.12	1.71	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 5.12	U	µg/kg dry	5.12	2.76	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 5.12	U	µg/kg dry	5.12	0.95	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 51.2	U	µg/kg dry	51.2	33.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 102	U	µg/kg dry	102	88.9	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 25.6	U	µg/kg dry	25.6	11.7	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1020	U	µg/kg dry	1020	191	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	90			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	107			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	146	SGCMS VOC		70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	121			70-130 %			"	"	"	"	"	

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<u>Sample Identification</u>		<u>Client Project #</u>					<u>Matrix</u>	<u>Collection Date/Time</u>			<u>Received</u>		
SB-25		17-217					Soil	09-Nov-17 14:44			10-Nov-17		
SC41491-10													
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	88.6		%			1	SM2540 G (11) Mod.	14-Nov-17	14-Nov-17	MBR	1719263	

Sample Identification

SB-10

SC41491-11

Client Project #

17-217

Matrix

Soil

Collection Date/Time

09-Nov-17 15:15

Received

10-Nov-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Prepared by method Volatiles</u>													
	VOC Extraction	Field extracted		N/A			1	VOC Soil Extraction			MBR	1719274	
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5035A Soil (low level)</u>													
Initial weight: 7.62 g													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 4.75	U	µg/kg dry	4.75	2.41	1	SW846 8260C	16-Nov-17	16-Nov-17	MP	1719357	X
67-64-1	Acetone	< 47.5	U	µg/kg dry	47.5	19.0	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 4.75	U	µg/kg dry	4.75	4.56	1	"	"	"	"	"	X
71-43-2	Benzene	< 4.75	U	µg/kg dry	4.75	1.26	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 4.75	U	µg/kg dry	4.75	1.27	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 4.75	U	µg/kg dry	4.75	2.40	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 4.75	U	µg/kg dry	4.75	3.17	1	"	"	"	"	"	X
75-25-2	Bromoform	< 4.75	U	µg/kg dry	4.75	4.53	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 9.49	U	µg/kg dry	9.49	4.28	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 9.49	U	µg/kg dry	9.49	8.48	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 4.75	U	µg/kg dry	4.75	1.36	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 4.75	U	µg/kg dry	4.75	0.86	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 4.75	U	µg/kg dry	4.75	1.06	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 9.49	U	µg/kg dry	9.49	3.04	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 4.75	U	µg/kg dry	4.75	3.88	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 4.75	U	µg/kg dry	4.75	1.49	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 9.49	U	µg/kg dry	9.49	2.63	1	"	"	"	"	"	X
67-66-3	Chloroform	< 4.75	U	µg/kg dry	4.75	2.55	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 9.49	U	µg/kg dry	9.49	1.96	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 4.75	U	µg/kg dry	4.75	1.18	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 4.75	U	µg/kg dry	4.75	1.12	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 9.49	U	µg/kg dry	9.49	6.86	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 4.75	U	µg/kg dry	4.75	3.22	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 4.75	U	µg/kg dry	4.75	3.18	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 4.75	U	µg/kg dry	4.75	2.47	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.75	U	µg/kg dry	4.75	1.23	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.75	U	µg/kg dry	4.75	1.03	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.75	U	µg/kg dry	4.75	1.40	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 9.49	U	µg/kg dry	9.49	1.80	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 4.75	U	µg/kg dry	4.75	1.24	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 4.75	U	µg/kg dry	4.75	1.70	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 4.75	U	µg/kg dry	4.75	2.48	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	425	E	µg/kg dry	4.75	1.76	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 4.75	U	µg/kg dry	4.75	2.51	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 4.75	U	µg/kg dry	4.75	2.49	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 4.75	U	µg/kg dry	4.75	2.46	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 4.75	U	µg/kg dry	4.75	2.24	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 4.75	U	µg/kg dry	4.75	1.53	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 4.75	U	µg/kg dry	4.75	2.86	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 4.75	U	µg/kg dry	4.75	2.49	1	"	"	"	"	"	X

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Sample Identification

SB-10

SC41491-11

Client Project #

17-217

Matrix

Soil

Collection Date/Time

09-Nov-17 15:15

Received

10-Nov-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Volatile Organic CompoundsVolatile Organic Compounds by SW846 8260

Initial weight: 7.62 g

100-41-4	Ethylbenzene	< 4.75	U	µg/kg dry	4.75	0.68	1	SW846 8260C	16-Nov-17	16-Nov-17	MP	1719357	X
87-68-3	Hexachlorobutadiene	< 4.75	U	µg/kg dry	4.75	2.38	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 9.49	U	µg/kg dry	9.49	5.82	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 4.75	U	µg/kg dry	4.75	0.93	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 4.75	U	µg/kg dry	4.75	1.02	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 4.75	U	µg/kg dry	4.75	1.75	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 9.49	U	µg/kg dry	9.49	2.44	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 9.49	U	µg/kg dry	9.49	1.88	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.75	U	µg/kg dry	4.75	2.82	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 4.75	U	µg/kg dry	4.75	0.77	1	"	"	"	"	"	X
100-42-5	Styrene	< 4.75	U	µg/kg dry	4.75	0.95	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 4.75	U	µg/kg dry	4.75	4.03	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 4.75	U	µg/kg dry	4.75	4.01	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 4.75	U	µg/kg dry	4.75	1.62	1	"	"	"	"	"	X
108-88-3	Toluene	< 4.75	U	µg/kg dry	4.75	1.54	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 4.75	U	µg/kg dry	4.75	1.67	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.75	U	µg/kg dry	4.75	3.50	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 4.75	U	µg/kg dry	4.75	1.49	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	2.10	J	µg/kg dry	4.75	1.58	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 4.75	U	µg/kg dry	4.75	3.44	1	"	"	"	"	"	X
79-01-6	Trichloroethene	231	E	µg/kg dry	4.75	1.30	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 4.75	U	µg/kg dry	4.75	2.56	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 4.75	U	µg/kg dry	4.75	3.56	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 4.75	U	µg/kg dry	4.75	1.15	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 4.75	U	µg/kg dry	4.75	0.82	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	22.8		µg/kg dry	4.75	1.60	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 9.49	U	µg/kg dry	9.49	0.85	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 4.75	U	µg/kg dry	4.75	1.33	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 9.49	U	µg/kg dry	9.49	7.48	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 4.75	U	µg/kg dry	4.75	4.30	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 4.75	U	µg/kg dry	4.75	1.58	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 4.75	U	µg/kg dry	4.75	2.56	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 4.75	U	µg/kg dry	4.75	0.88	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 47.5	U	µg/kg dry	47.5	31.1	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 94.9	U	µg/kg dry	94.9	82.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 23.7	U	µg/kg dry	23.7	10.8	1	"	"	"	"	"	X
64-17-5	Ethanol	< 949	U	µg/kg dry	949	177	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	91			70-130 %		"	"	"	"	"	"
2037-26-5	Toluene-d8	107			70-130 %		"	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	140	SGCMS VOC		70-130 %		"	"	"	"	"	"
1868-53-7	Dibromofluoromethane	119			70-130 %		"	"	"	"	"	"

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Sample Identification

SB-10

SC41491-11

Client Project #

17-217

Matrix

Soil

Collection Date/Time

09-Nov-17 15:15

Received

10-Nov-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Re-analysis of Volatile Organic Compounds by SW846 8260			GS1										
Prepared by method SW846 5035A Soil (high level)						Initial weight: 7.65 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 124	U, D	µg/kg dry	124	63.0	50	SW846 8260C	20-Nov-17	20-Nov-17	MP	1719513	X
67-64-1	Acetone	< 1240	U, D	µg/kg dry	1240	497	50	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 124	U, D	µg/kg dry	124	119	50	"	"	"	"	"	X
71-43-2	Benzene	< 124	U, D	µg/kg dry	124	32.9	50	"	"	"	"	"	X
108-86-1	Bromobenzene	< 124	U, D	µg/kg dry	124	33.2	50	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 124	U, D	µg/kg dry	124	62.7	50	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 124	U, D	µg/kg dry	124	82.9	50	"	"	"	"	"	X
75-25-2	Bromoform	< 124	U, D	µg/kg dry	124	119	50	"	"	"	"	"	X
74-83-9	Bromomethane	< 248	U, D	µg/kg dry	248	112	50	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 248	U, D	µg/kg dry	248	222	50	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 124	U, D	µg/kg dry	124	35.5	50	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 124	U, D	µg/kg dry	124	22.6	50	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 124	U, D	µg/kg dry	124	27.8	50	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 248	U, D	µg/kg dry	248	79.5	50	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 124	U, D	µg/kg dry	124	102	50	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 124	U, D	µg/kg dry	124	38.9	50	"	"	"	"	"	X
75-00-3	Chloroethane	< 248	U, D	µg/kg dry	248	68.9	50	"	"	"	"	"	X
67-66-3	Chloroform	< 124	U, D	µg/kg dry	124	66.7	50	"	"	"	"	"	X
74-87-3	Chloromethane	< 248	U, D	µg/kg dry	248	51.3	50	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 124	U, D	µg/kg dry	124	30.9	50	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 124	U, D	µg/kg dry	124	29.2	50	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 248	U, D	µg/kg dry	248	179	50	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 124	U, D	µg/kg dry	124	84.2	50	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 124	U, D	µg/kg dry	124	83.4	50	"	"	"	"	"	X
74-95-3	Dibromomethane	< 124	U, D	µg/kg dry	124	64.6	50	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 124	U, D	µg/kg dry	124	32.3	50	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 124	U, D	µg/kg dry	124	27.0	50	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 124	U, D	µg/kg dry	124	36.8	50	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 248	U, D	µg/kg dry	248	47.1	50	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 124	U, D	µg/kg dry	124	32.5	50	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 124	U, D	µg/kg dry	124	44.5	50	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 124	U, D	µg/kg dry	124	65.0	50	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	503	D	µg/kg dry	124	46.1	50	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 124	U, D	µg/kg dry	124	65.8	50	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 124	U, D	µg/kg dry	124	65.1	50	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 124	U, D	µg/kg dry	124	64.3	50	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 124	U, D	µg/kg dry	124	58.6	50	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 124	U, D	µg/kg dry	124	40.0	50	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 124	U, D	µg/kg dry	124	74.9	50	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 124	U, D	µg/kg dry	124	65.2	50	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 124	U, D	µg/kg dry	124	17.9	50	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 124	U, D	µg/kg dry	124	62.4	50	"	"	"	"	"	X

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Sample Identification

SB-10

SC41491-11

Client Project #

17-217

Matrix

Soil

Collection Date/Time

09-Nov-17 15:15

Received

10-Nov-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Volatile Organic Compounds

Re-analysis of Volatile Organic Compounds
by SW846 8260

GS1

Initial weight: 7.65 g

591-78-6	2-Hexanone (MBK)	< 248	U, D	µg/kg dry	248	152	50	SW846 8260C	20-Nov-17	20-Nov-17	MP	1719513	X
98-82-8	Isopropylbenzene	< 124	U, D	µg/kg dry	124	24.5	50	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 124	U, D	µg/kg dry	124	26.7	50	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 124	U, D	µg/kg dry	124	45.7	50	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 248	U, D	µg/kg dry	248	63.8	50	"	"	"	"	"	X
75-09-2	Methylene chloride	< 248	U, D	µg/kg dry	248	49.3	50	"	"	"	"	"	X
91-20-3	Naphthalene	< 124	U, D	µg/kg dry	124	73.9	50	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 124	U, D	µg/kg dry	124	20.1	50	"	"	"	"	"	X
100-42-5	Styrene	< 124	U, D	µg/kg dry	124	25.0	50	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 124	U, D	µg/kg dry	124	106	50	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 124	U, D	µg/kg dry	124	105	50	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 124	U, D	µg/kg dry	124	42.5	50	"	"	"	"	"	X
108-88-3	Toluene	< 124	U, D	µg/kg dry	124	40.2	50	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 124	U, D	µg/kg dry	124	43.6	50	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 124	U, D	µg/kg dry	124	91.5	50	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 124	U, D	µg/kg dry	124	39.0	50	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 124	U, D	µg/kg dry	124	41.2	50	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 124	U, D	µg/kg dry	124	90.1	50	"	"	"	"	"	X
79-01-6	Trichloroethene	552	D	µg/kg dry	124	33.9	50	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 124	U, D	µg/kg dry	124	67.0	50	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 124	U, D	µg/kg dry	124	93.2	50	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 124	U, D	µg/kg dry	124	30.2	50	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 124	U, D	µg/kg dry	124	21.4	50	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 124	U, D	µg/kg dry	124	42.0	50	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 248	U, D	µg/kg dry	248	22.4	50	"	"	"	"	"	X
95-47-6	o-Xylene	< 124	U, D	µg/kg dry	124	34.8	50	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 248	U, D	µg/kg dry	248	196	50	"	"	"	"	"	
60-29-7	Ethyl ether	< 124	U, D	µg/kg dry	124	113	50	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 124	U, D	µg/kg dry	124	41.5	50	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 124	U, D	µg/kg dry	124	67.0	50	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 124	U, D	µg/kg dry	124	23.1	50	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 1240	U, D	µg/kg dry	1240	813	50	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 2480	U, D	µg/kg dry	2480	2160	50	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 621	U, D	µg/kg dry	621	283	50	"	"	"	"	"	X
64-17-5	Ethanol	< 24800	U, D	µg/kg dry	24800	4630	50	"	"	"	"	"	

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	96			70-130 %		"	"	"	"	"	"	
2037-26-5	Toluene-d8	101			70-130 %		"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	105			70-130 %		"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	97			70-130 %		"	"	"	"	"	"	

General Chemistry Parameters

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<u>Sample Identification</u>		<u>Client Project #</u>					<u>Matrix</u>	<u>Collection Date/Time</u>		<u>Received</u>			
SB-10		17-217					Soil	09-Nov-17 15:15		10-Nov-17			
SC41491-11													
<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
General Chemistry Parameters													
	% Solids	85.0		%			1	SM2540 G (11) Mod.	14-Nov-17	14-Nov-17	MBR	1719263	

Sample Identification

SB-27

SC41491-12

Client Project #

17-217

Matrix

Soil

Collection Date/Time

10-Nov-17 09:38

Received

10-Nov-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Volatile Organic CompoundsPrepared by method Volatiles

VOC Extraction

Field
extracted

N/A

1

VOC Soil
Extraction

MBR

1719274

Volatile Organic Compounds by SW846 8260Prepared by method SW846 5035A Soil (low level)

Initial weight: 6.95 g

76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 4.61	U	µg/kg dry	4.61	2.34	1	SW846 8260C	16-Nov-17	16-Nov-17	MP	1719357	X
67-64-1	Acetone	< 46.1	U	µg/kg dry	46.1	18.4	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 4.61	U	µg/kg dry	4.61	4.43	1	"	"	"	"	"	X
71-43-2	Benzene	< 4.61	U	µg/kg dry	4.61	1.22	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 4.61	U	µg/kg dry	4.61	1.23	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 4.61	U	µg/kg dry	4.61	2.33	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 4.61	U	µg/kg dry	4.61	3.07	1	"	"	"	"	"	X
75-25-2	Bromoform	< 4.61	U	µg/kg dry	4.61	4.39	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 9.21	U	µg/kg dry	9.21	4.16	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 9.21	U	µg/kg dry	9.21	8.23	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 4.61	U	µg/kg dry	4.61	1.32	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 4.61	U	µg/kg dry	4.61	0.84	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 4.61	U	µg/kg dry	4.61	1.03	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 9.21	U	µg/kg dry	9.21	2.95	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 4.61	U	µg/kg dry	4.61	3.77	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 4.61	U	µg/kg dry	4.61	1.44	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 9.21	U	µg/kg dry	9.21	2.56	1	"	"	"	"	"	X
67-66-3	Chloroform	< 4.61	U	µg/kg dry	4.61	2.47	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 9.21	U	µg/kg dry	9.21	1.90	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 4.61	U	µg/kg dry	4.61	1.15	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 4.61	U	µg/kg dry	4.61	1.08	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 9.21	U	µg/kg dry	9.21	6.66	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 4.61	U	µg/kg dry	4.61	3.12	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 4.61	U	µg/kg dry	4.61	3.09	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 4.61	U	µg/kg dry	4.61	2.39	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.61	U	µg/kg dry	4.61	1.20	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.61	U	µg/kg dry	4.61	1.00	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.61	U	µg/kg dry	4.61	1.36	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 9.21	U	µg/kg dry	9.21	1.75	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 4.61	U	µg/kg dry	4.61	1.21	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 4.61	U	µg/kg dry	4.61	1.65	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 4.61	U	µg/kg dry	4.61	2.41	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 4.61	U	µg/kg dry	4.61	1.71	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 4.61	U	µg/kg dry	4.61	2.44	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 4.61	U	µg/kg dry	4.61	2.41	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 4.61	U	µg/kg dry	4.61	2.39	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 4.61	U	µg/kg dry	4.61	2.17	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 4.61	U	µg/kg dry	4.61	1.48	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 4.61	U	µg/kg dry	4.61	2.78	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 4.61	U	µg/kg dry	4.61	2.42	1	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-27

SC41491-12

Client Project #

17-217

Matrix

Soil

Collection Date/Time

10-Nov-17 09:38

Received

10-Nov-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Volatile Organic CompoundsVolatile Organic Compounds by SW846 8260

Initial weight: 6.95 g

100-41-4	Ethylbenzene	< 4.61	U	µg/kg dry	4.61	0.66	1	SW846 8260C	16-Nov-17	16-Nov-17	MP	1719357	X
87-68-3	Hexachlorobutadiene	< 4.61	U	µg/kg dry	4.61	2.31	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 9.21	U	µg/kg dry	9.21	5.65	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 4.61	U	µg/kg dry	4.61	0.91	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 4.61	U	µg/kg dry	4.61	0.99	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 4.61	U	µg/kg dry	4.61	1.69	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 9.21	U	µg/kg dry	9.21	2.37	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 9.21	U	µg/kg dry	9.21	1.83	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.61	U	µg/kg dry	4.61	2.74	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 4.61	U	µg/kg dry	4.61	0.75	1	"	"	"	"	"	X
100-42-5	Styrene	< 4.61	U	µg/kg dry	4.61	0.93	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 4.61	U	µg/kg dry	4.61	3.91	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 4.61	U	µg/kg dry	4.61	3.90	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 4.61	U	µg/kg dry	4.61	1.58	1	"	"	"	"	"	X
108-88-3	Toluene	< 4.61	U	µg/kg dry	4.61	1.49	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 4.61	U	µg/kg dry	4.61	1.62	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.61	U	µg/kg dry	4.61	3.39	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 4.61	U	µg/kg dry	4.61	1.45	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 4.61	U	µg/kg dry	4.61	1.53	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 4.61	U	µg/kg dry	4.61	3.34	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 4.61	U	µg/kg dry	4.61	1.26	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 4.61	U	µg/kg dry	4.61	2.48	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 4.61	U	µg/kg dry	4.61	3.45	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 4.61	U	µg/kg dry	4.61	1.12	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 4.61	U	µg/kg dry	4.61	0.79	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 4.61	U	µg/kg dry	4.61	1.56	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 9.21	U	µg/kg dry	9.21	0.83	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 4.61	U	µg/kg dry	4.61	1.29	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 9.21	U	µg/kg dry	9.21	7.26	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 4.61	U	µg/kg dry	4.61	4.17	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 4.61	U	µg/kg dry	4.61	1.54	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 4.61	U	µg/kg dry	4.61	2.48	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 4.61	U	µg/kg dry	4.61	0.86	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 46.1	U	µg/kg dry	46.1	30.1	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 92.1	U	µg/kg dry	92.1	80.0	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 23.0	U	µg/kg dry	23.0	10.5	1	"	"	"	"	"	X
64-17-5	Ethanol	< 921	U	µg/kg dry	921	172	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	91			70-130 %	"	"	"	"	"	"	"	
2037-26-5	Toluene-d8	105			70-130 %	"	"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	141	SGCMS VOC		70-130 %	"	"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	118			70-130 %	"	"	"	"	"	"	"	

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<u>Sample Identification</u>		<u>Client Project #</u>					<u>Matrix</u>	<u>Collection Date/Time</u>		<u>Received</u>			
SB-27		17-217					Soil	10-Nov-17 09:38		10-Nov-17			
SC41491-12													
<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
General Chemistry Parameters													
	% Solids	89.5		%			1	SM2540 G (11) Mod.	14-Nov-17	14-Nov-17	MBR	1719263	

Sample Identification

SB-28

SC41491-13

Client Project #

17-217

Matrix

Soil

Collection Date/Time

10-Nov-17 10:04

Received

10-Nov-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Prepared by method Volatiles</u>													
	VOC Extraction	Field extracted		N/A			1	VOC Soil Extraction			MBR	1719274	
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5035A Soil (low level)</u>													
								Initial weight: 5.22 g					
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 6.85	U	µg/kg dry	6.85	3.47	1	SW846 8260C	16-Nov-17	16-Nov-17	MP	1719357	X
67-64-1	Acetone	< 68.5	U	µg/kg dry	68.5	27.4	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 6.85	U	µg/kg dry	6.85	6.58	1	"	"	"	"	"	X
71-43-2	Benzene	< 6.85	U	µg/kg dry	6.85	1.82	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 6.85	U	µg/kg dry	6.85	1.83	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 6.85	U	µg/kg dry	6.85	3.46	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 6.85	U	µg/kg dry	6.85	4.57	1	"	"	"	"	"	X
75-25-2	Bromoform	< 6.85	U	µg/kg dry	6.85	6.54	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 13.7	U	µg/kg dry	13.7	6.19	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 13.7	U	µg/kg dry	13.7	12.3	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 6.85	U	µg/kg dry	6.85	1.96	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 6.85	U	µg/kg dry	6.85	1.25	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 6.85	U	µg/kg dry	6.85	1.53	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 13.7	U	µg/kg dry	13.7	4.39	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 6.85	U	µg/kg dry	6.85	5.60	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 6.85	U	µg/kg dry	6.85	2.14	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 13.7	U	µg/kg dry	13.7	3.80	1	"	"	"	"	"	X
67-66-3	Chloroform	< 6.85	U	µg/kg dry	6.85	3.68	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 13.7	U	µg/kg dry	13.7	2.83	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 6.85	U	µg/kg dry	6.85	1.71	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 6.85	U	µg/kg dry	6.85	1.61	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 13.7	U	µg/kg dry	13.7	9.90	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 6.85	U	µg/kg dry	6.85	4.65	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 6.85	U	µg/kg dry	6.85	4.60	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 6.85	U	µg/kg dry	6.85	3.56	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 6.85	U	µg/kg dry	6.85	1.78	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 6.85	U	µg/kg dry	6.85	1.49	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 6.85	U	µg/kg dry	6.85	2.03	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 13.7	U	µg/kg dry	13.7	2.60	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 6.85	U	µg/kg dry	6.85	1.80	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 6.85	U	µg/kg dry	6.85	2.45	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 6.85	U	µg/kg dry	6.85	3.58	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 6.85	U	µg/kg dry	6.85	2.54	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 6.85	U	µg/kg dry	6.85	3.63	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 6.85	U	µg/kg dry	6.85	3.59	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 6.85	U	µg/kg dry	6.85	3.55	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 6.85	U	µg/kg dry	6.85	3.23	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 6.85	U	µg/kg dry	6.85	2.21	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 6.85	U	µg/kg dry	6.85	4.13	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 6.85	U	µg/kg dry	6.85	3.60	1	"	"	"	"	"	X

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Sample Identification

SB-28

SC41491-13

Client Project #

17-217

Matrix

Soil

Collection Date/Time

10-Nov-17 10:04

Received

10-Nov-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Volatile Organic CompoundsVolatile Organic Compounds by SW846 8260

Initial weight: 5.22 g

100-41-4	Ethylbenzene	< 6.85	U	µg/kg dry	6.85	0.99	1	SW846 8260C	16-Nov-17	16-Nov-17	MP	1719357	X
87-68-3	Hexachlorobutadiene	< 6.85	U	µg/kg dry	6.85	3.44	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 13.7	U	µg/kg dry	13.7	8.41	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 6.85	U	µg/kg dry	6.85	1.35	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 6.85	U	µg/kg dry	6.85	1.47	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 6.85	U	µg/kg dry	6.85	2.52	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 13.7	U	µg/kg dry	13.7	3.52	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 13.7	U	µg/kg dry	13.7	2.72	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 6.85	U	µg/kg dry	6.85	4.08	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 6.85	U	µg/kg dry	6.85	1.11	1	"	"	"	"	"	X
100-42-5	Styrene	< 6.85	U	µg/kg dry	6.85	1.38	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 6.85	U	µg/kg dry	6.85	5.82	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 6.85	U	µg/kg dry	6.85	5.80	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 6.85	U	µg/kg dry	6.85	2.34	1	"	"	"	"	"	X
108-88-3	Toluene	< 6.85	U	µg/kg dry	6.85	2.22	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 6.85	U	µg/kg dry	6.85	2.40	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 6.85	U	µg/kg dry	6.85	5.05	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 6.85	U	µg/kg dry	6.85	2.15	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 6.85	U	µg/kg dry	6.85	2.27	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 6.85	U	µg/kg dry	6.85	4.97	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 6.85	U	µg/kg dry	6.85	1.87	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 6.85	U	µg/kg dry	6.85	3.69	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 6.85	U	µg/kg dry	6.85	5.14	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 6.85	U	µg/kg dry	6.85	1.66	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 6.85	U	µg/kg dry	6.85	1.18	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 6.85	U	µg/kg dry	6.85	2.32	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 13.7	U	µg/kg dry	13.7	1.23	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 6.85	U	µg/kg dry	6.85	1.92	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 13.7	U	µg/kg dry	13.7	10.8	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 6.85	U	µg/kg dry	6.85	6.21	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 6.85	U	µg/kg dry	6.85	2.29	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 6.85	U	µg/kg dry	6.85	3.69	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 6.85	U	µg/kg dry	6.85	1.27	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 68.5	U	µg/kg dry	68.5	44.8	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 137	U	µg/kg dry	137	119	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 34.3	U	µg/kg dry	34.3	15.6	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1370	U	µg/kg dry	1370	256	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	88			70-130 %		"	"	"	"	"	"	
2037-26-5	Toluene-d8	105			70-130 %		"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	145	SGCMS		70-130 %		"	"	"	"	"	"	
			VOC										
1868-53-7	Dibromofluoromethane	121			70-130 %		"	"	"	"	"	"	

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Sample Identification

SB-28

SC41491-13

Client Project #

17-217

Matrix

Soil

Collection Date/Time

10-Nov-17 10:04

Received

10-Nov-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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General Chemistry Parameters

% Solids

82.6

%

1

SM2540 G (11)
Mod.

14-Nov-17

14-Nov-17

MBR

1719263

Subcontracted AnalysesSubcontracted AnalysesPrepared by method 409770-SW8270*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

91-57-6	2-Methylnaphthalene	< 160		ug/kg	160	160	10	SW8270D (SIM)	15-Nov-17	16-Nov-17 12:18	11301	409770A	
83-32-9	Acenaphthene	< 160		ug/kg	160	160	10	"	"	"	"	"	
208-96-8	Acenaphthylene	< 160		ug/kg	160	160	10	"	"	"	"	"	
120-12-7	Anthracene	< 160		ug/kg	160	160	10	"	"	"	"	"	
56-55-3	Benz(a)anthracene	< 160		ug/kg	160	160	10	"	"	"	"	"	
50-32-8	Benzo(a)pyrene	< 160		ug/kg	160	160	10	"	"	"	"	"	
205-99-2	Benzo(b)fluoranthene	< 160		ug/kg	160	160	10	"	"	"	"	"	
191-24-2	Benzo(ghi)perylene	< 160		ug/kg	160	160	10	"	"	"	"	"	
207-08-9	Benzo(k)fluoranthene	< 160		ug/kg	160	160	10	"	"	"	"	"	
218-01-9	Chrysene	< 160		ug/kg	160	160	10	"	"	"	"	"	
53-70-3	Dibenz(a,h)anthracene	< 160		ug/kg	160	160	10	"	"	"	"	"	
206-44-0	Fluoranthene	< 160		ug/kg	160	160	10	"	"	"	"	"	
86-73-7	Fluorene	< 160		ug/kg	160	160	10	"	"	"	"	"	
193-39-5	Indeno(1,2,3-cd)pyrene	< 160		ug/kg	160	160	10	"	"	"	"	"	
91-20-3	Naphthalene	< 160		ug/kg	160	160	10	"	"	"	"	"	
85-01-8	Phenanthrene	< 160		ug/kg	160	160	10	"	"	"	"	"	
129-00-0	Pyrene	< 160		ug/kg	160	160	10	"	"	"	"	"	

Surrogate recoveries:

321-60-8	% 2-Fluorobiphenyl	52			30-130 %			"	"	"	"	"	
4165-60-0	% Nitrobenzene-d5	55			30-130 %			"	"	"	"	"	
98904-43-9	% Terphenyl-d14	65			30-130 %			"	"	"	"	"	

*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

Percent Solid

85

%

1

SW846-%Solid

09-Nov-17
10:0415-Nov-17
21:34

11301

'[none]'

Sample Identification

SB-11

SC41491-14

Client Project #

17-217

Matrix

Soil

Collection Date/Time

10-Nov-17 10:25

Received

10-Nov-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Prepared by method Volatiles</u>													
	VOC Extraction	Field extracted		N/A			1	VOC Soil Extraction			MBR	1719274	
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5035A Soil (low level)</u>													
								Initial weight: 8.08 g					
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 4.45	U	µg/kg dry	4.45	2.26	1	SW846 8260C	16-Nov-17	16-Nov-17	MP	1719357	X
67-64-1	Acetone	< 44.5	U	µg/kg dry	44.5	17.8	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 4.45	U	µg/kg dry	4.45	4.28	1	"	"	"	"	"	X
71-43-2	Benzene	< 4.45	U	µg/kg dry	4.45	1.18	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 4.45	U	µg/kg dry	4.45	1.19	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 4.45	U	µg/kg dry	4.45	2.25	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 4.45	U	µg/kg dry	4.45	2.97	1	"	"	"	"	"	X
75-25-2	Bromoform	< 4.45	U	µg/kg dry	4.45	4.25	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 8.91	U	µg/kg dry	8.91	4.02	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 8.91	U	µg/kg dry	8.91	7.96	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 4.45	U	µg/kg dry	4.45	1.27	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 4.45	U	µg/kg dry	4.45	0.81	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 4.45	U	µg/kg dry	4.45	1.00	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 8.91	U	µg/kg dry	8.91	2.85	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 4.45	U	µg/kg dry	4.45	3.64	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 4.45	U	µg/kg dry	4.45	1.39	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 8.91	U	µg/kg dry	8.91	2.47	1	"	"	"	"	"	X
67-66-3	Chloroform	< 4.45	U	µg/kg dry	4.45	2.39	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 8.91	U	µg/kg dry	8.91	1.84	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 4.45	U	µg/kg dry	4.45	1.11	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 4.45	U	µg/kg dry	4.45	1.05	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 8.91	U	µg/kg dry	8.91	6.44	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 4.45	U	µg/kg dry	4.45	3.02	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 4.45	U	µg/kg dry	4.45	2.99	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 4.45	U	µg/kg dry	4.45	2.32	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.45	U	µg/kg dry	4.45	1.16	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.45	U	µg/kg dry	4.45	0.97	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.45	U	µg/kg dry	4.45	1.32	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 8.91	U	µg/kg dry	8.91	1.69	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 4.45	U	µg/kg dry	4.45	1.17	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 4.45	U	µg/kg dry	4.45	1.59	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 4.45	U	µg/kg dry	4.45	2.33	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 4.45	U	µg/kg dry	4.45	1.65	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 4.45	U	µg/kg dry	4.45	2.36	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 4.45	U	µg/kg dry	4.45	2.33	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 4.45	U	µg/kg dry	4.45	2.31	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 4.45	U	µg/kg dry	4.45	2.10	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 4.45	U	µg/kg dry	4.45	1.43	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 4.45	U	µg/kg dry	4.45	2.69	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 4.45	U	µg/kg dry	4.45	2.34	1	"	"	"	"	"	X

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Sample Identification

SB-11

SC41491-14

Client Project #

17-217

Matrix

Soil

Collection Date/Time

10-Nov-17 10:25

Received

10-Nov-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
Initial weight: 8.08 g													
100-41-4	Ethylbenzene	< 4.45	U	µg/kg dry	4.45	0.64	1	SW846 8260C	16-Nov-17	16-Nov-17	MP	1719357	X
87-68-3	Hexachlorobutadiene	< 4.45	U	µg/kg dry	4.45	2.24	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 8.91	U	µg/kg dry	8.91	5.47	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 4.45	U	µg/kg dry	4.45	0.88	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 4.45	U	µg/kg dry	4.45	0.96	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 4.45	U	µg/kg dry	4.45	1.64	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 8.91	U	µg/kg dry	8.91	2.29	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 8.91	U	µg/kg dry	8.91	1.77	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.45	U	µg/kg dry	4.45	2.65	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 4.45	U	µg/kg dry	4.45	0.72	1	"	"	"	"	"	X
100-42-5	Styrene	< 4.45	U	µg/kg dry	4.45	0.90	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 4.45	U	µg/kg dry	4.45	3.79	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 4.45	U	µg/kg dry	4.45	3.77	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 4.45	U	µg/kg dry	4.45	1.52	1	"	"	"	"	"	X
108-88-3	Toluene	< 4.45	U	µg/kg dry	4.45	1.44	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 4.45	U	µg/kg dry	4.45	1.56	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.45	U	µg/kg dry	4.45	3.28	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 4.45	U	µg/kg dry	4.45	1.40	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 4.45	U	µg/kg dry	4.45	1.48	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 4.45	U	µg/kg dry	4.45	3.23	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 4.45	U	µg/kg dry	4.45	1.22	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 4.45	U	µg/kg dry	4.45	2.40	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 4.45	U	µg/kg dry	4.45	3.34	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 4.45	U	µg/kg dry	4.45	1.08	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 4.45	U	µg/kg dry	4.45	0.77	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 4.45	U	µg/kg dry	4.45	1.51	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 8.91	U	µg/kg dry	8.91	0.80	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 4.45	U	µg/kg dry	4.45	1.25	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 8.91	U	µg/kg dry	8.91	7.02	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 4.45	U	µg/kg dry	4.45	4.04	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 4.45	U	µg/kg dry	4.45	1.49	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 4.45	U	µg/kg dry	4.45	2.40	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 4.45	U	µg/kg dry	4.45	0.83	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 44.5	U	µg/kg dry	44.5	29.1	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 89.1	U	µg/kg dry	89.1	77.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 22.3	U	µg/kg dry	22.3	10.2	1	"	"	"	"	"	X
64-17-5	Ethanol	< 891	U	µg/kg dry	891	166	1	"	"	"	"	"	X
<u>Surrogate recoveries:</u>													
460-00-4	4-Bromofluorobenzene	91			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	106			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	143	SGCMS VOC		70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	119			70-130 %			"	"	"	"	"	

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Sample Identification

SB-11

SC41491-14

Client Project #

17-217

Matrix

Soil

Collection Date/Time

10-Nov-17 10:25

Received

10-Nov-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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General Chemistry Parameters

% Solids	85.6	%					1	SM2540 G (11) Mod.	14-Nov-17	14-Nov-17	MBR	1719263	
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Subcontracted AnalysesSubcontracted AnalysesPrepared by method 409770-SW8270*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

91-57-6	2-Methylnaphthalene	< 150		ug/kg	150	150	10	SW8270D (SIM)	15-Nov-17	16-Nov-17 12:41	11301	409770A	
83-32-9	Acenaphthene	< 150		ug/kg	150	150	10	"	"	"	"	"	
208-96-8	Acenaphthylene	< 150		ug/kg	150	150	10	"	"	"	"	"	
120-12-7	Anthracene	< 150		ug/kg	150	150	10	"	"	"	"	"	
56-55-3	Benz(a)anthracene	< 150		ug/kg	150	150	10	"	"	"	"	"	
50-32-8	Benzo(a)pyrene	< 150		ug/kg	150	150	10	"	"	"	"	"	
205-99-2	Benzo(b)fluoranthene	< 150		ug/kg	150	150	10	"	"	"	"	"	
191-24-2	Benzo(ghi)perylene	< 150		ug/kg	150	150	10	"	"	"	"	"	
207-08-9	Benzo(k)fluoranthene	< 150		ug/kg	150	150	10	"	"	"	"	"	
218-01-9	Chrysene	< 150		ug/kg	150	150	10	"	"	"	"	"	
53-70-3	Dibenz(a,h)anthracene	< 150		ug/kg	150	150	10	"	"	"	"	"	
206-44-0	Fluoranthene	< 150		ug/kg	150	150	10	"	"	"	"	"	
86-73-7	Fluorene	< 150		ug/kg	150	150	10	"	"	"	"	"	
193-39-5	Indeno(1,2,3-cd)pyrene	< 150		ug/kg	150	150	10	"	"	"	"	"	
91-20-3	Naphthalene	< 150		ug/kg	150	150	10	"	"	"	"	"	
85-01-8	Phenanthrene	< 150		ug/kg	150	150	10	"	"	"	"	"	
129-00-0	Pyrene	< 150		ug/kg	150	150	10	"	"	"	"	"	

Surrogate recoveries:

321-60-8	% 2-Fluorobiphenyl	64			30-130 %			"	"	"	"	"	
4165-60-0	% Nitrobenzene-d5	60			30-130 %			"	"	"	"	"	
98904-43-9	% Terphenyl-d14	70			30-130 %			"	"	"	"	"	

*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

Percent Solid	85	%					1	SW846-%Solid	09-Nov-17 10:25	15-Nov-17 21:34	11301	'[none]'	
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Sample Identification

SB-23

SC41491-15

Client Project #

17-217

Matrix

Soil

Collection Date/Time

10-Nov-17 11:10

Received

10-Nov-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Volatile Organic CompoundsPrepared by method Volatiles

VOC Extraction

Field
extracted

N/A

1

VOC Soil
Extraction

MBR

1719274

Volatile Organic Compounds by SW846 8260Prepared by method SW846 5035A Soil (low level)

Initial weight: 7.07 g

76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.01	U	µg/kg dry	5.01	2.54	1	SW846 8260C	16-Nov-17	16-Nov-17	MP	1719357	X
67-64-1	Acetone	< 50.1	U	µg/kg dry	50.1	20.0	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 5.01	U	µg/kg dry	5.01	4.81	1	"	"	"	"	"	X
71-43-2	Benzene	< 5.01	U	µg/kg dry	5.01	1.33	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 5.01	U	µg/kg dry	5.01	1.34	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.01	U	µg/kg dry	5.01	2.53	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 5.01	U	µg/kg dry	5.01	3.34	1	"	"	"	"	"	X
75-25-2	Bromoform	< 5.01	U	µg/kg dry	5.01	4.78	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 10.0	U	µg/kg dry	10.0	4.52	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0	U	µg/kg dry	10.0	8.95	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 5.01	U	µg/kg dry	5.01	1.43	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 5.01	U	µg/kg dry	5.01	0.91	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 5.01	U	µg/kg dry	5.01	1.12	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 10.0	U	µg/kg dry	10.0	3.20	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 5.01	U	µg/kg dry	5.01	4.10	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 5.01	U	µg/kg dry	5.01	1.57	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 10.0	U	µg/kg dry	10.0	2.78	1	"	"	"	"	"	X
67-66-3	Chloroform	< 5.01	U	µg/kg dry	5.01	2.69	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 10.0	U	µg/kg dry	10.0	2.07	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 5.01	U	µg/kg dry	5.01	1.25	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 5.01	U	µg/kg dry	5.01	1.18	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 10.0	U	µg/kg dry	10.0	7.24	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 5.01	U	µg/kg dry	5.01	3.40	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 5.01	U	µg/kg dry	5.01	3.36	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 5.01	U	µg/kg dry	5.01	2.60	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 5.01	U	µg/kg dry	5.01	1.30	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 5.01	U	µg/kg dry	5.01	1.09	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 5.01	U	µg/kg dry	5.01	1.48	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 10.0	U	µg/kg dry	10.0	1.90	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 5.01	U	µg/kg dry	5.01	1.31	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 5.01	U	µg/kg dry	5.01	1.79	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 5.01	U	µg/kg dry	5.01	2.62	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	8.57		µg/kg dry	5.01	1.86	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 5.01	U	µg/kg dry	5.01	2.65	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 5.01	U	µg/kg dry	5.01	2.62	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 5.01	U	µg/kg dry	5.01	2.59	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 5.01	U	µg/kg dry	5.01	2.36	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 5.01	U	µg/kg dry	5.01	1.61	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 5.01	U	µg/kg dry	5.01	3.02	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 5.01	U	µg/kg dry	5.01	2.63	1	"	"	"	"	"	X

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Sample Identification

SB-23

SC41491-15

Client Project #

17-217

Matrix

Soil

Collection Date/Time

10-Nov-17 11:10

Received

10-Nov-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Volatile Organic CompoundsVolatile Organic Compounds by SW846 8260

Initial weight: 7.07 g

100-41-4	Ethylbenzene	< 5.01	U	µg/kg dry	5.01	0.72	1	SW846 8260C	16-Nov-17	16-Nov-17	MP	1719357	X
87-68-3	Hexachlorobutadiene	< 5.01	U	µg/kg dry	5.01	2.51	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0	U	µg/kg dry	10.0	6.14	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 5.01	U	µg/kg dry	5.01	0.99	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 5.01	U	µg/kg dry	5.01	1.08	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 5.01	U	µg/kg dry	5.01	1.84	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0	U	µg/kg dry	10.0	2.57	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 10.0	U	µg/kg dry	10.0	1.99	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 5.01	U	µg/kg dry	5.01	2.98	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 5.01	U	µg/kg dry	5.01	0.81	1	"	"	"	"	"	X
100-42-5	Styrene	< 5.01	U	µg/kg dry	5.01	1.01	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 5.01	U	µg/kg dry	5.01	4.26	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.01	U	µg/kg dry	5.01	4.24	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 5.01	U	µg/kg dry	5.01	1.71	1	"	"	"	"	"	X
108-88-3	Toluene	< 5.01	U	µg/kg dry	5.01	1.62	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 5.01	U	µg/kg dry	5.01	1.76	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 5.01	U	µg/kg dry	5.01	3.69	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 5.01	U	µg/kg dry	5.01	1.57	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 5.01	U	µg/kg dry	5.01	1.66	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 5.01	U	µg/kg dry	5.01	3.63	1	"	"	"	"	"	X
79-01-6	Trichloroethene	67.1		µg/kg dry	5.01	1.37	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 5.01	U	µg/kg dry	5.01	2.70	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 5.01	U	µg/kg dry	5.01	3.76	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 5.01	U	µg/kg dry	5.01	1.22	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 5.01	U	µg/kg dry	5.01	0.86	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 5.01	U	µg/kg dry	5.01	1.69	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 10.0	U	µg/kg dry	10.0	0.90	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 5.01	U	µg/kg dry	5.01	1.40	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 10.0	U	µg/kg dry	10.0	7.89	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 5.01	U	µg/kg dry	5.01	4.54	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 5.01	U	µg/kg dry	5.01	1.67	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 5.01	U	µg/kg dry	5.01	2.70	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 5.01	U	µg/kg dry	5.01	0.93	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 50.1	U	µg/kg dry	50.1	32.8	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 100	U	µg/kg dry	100	87.0	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 25.0	U	µg/kg dry	25.0	11.4	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1000	U	µg/kg dry	1000	187	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	91			70-130 %	"	"	"	"	"	"	"	
2037-26-5	Toluene-d8	108			70-130 %	"	"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	147	SGCMS VOC		70-130 %	"	"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	122			70-130 %	"	"	"	"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-23

SC41491-15

Client Project #

17-217

Matrix

Soil

Collection Date/Time

10-Nov-17 11:10

Received

10-Nov-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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General Chemistry Parameters

% Solids	85.3	%					1	SM2540 G (11) Mod.	14-Nov-17	14-Nov-17	MBR	1719263	
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Subcontracted AnalysesSubcontracted AnalysesPrepared by method 409769-*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

7440-38-2	Arsenic	5.75		mg/kg	0.79	0.79	1	SW6010C	15-Nov-17	16-Nov-17 17:24	11301	409769A	
7440-39-3	Barium	58.1		mg/kg	0.40	0.40	1	"	"	"	"	"	
7440-43-9	Cadmium	< 0.40		mg/kg	0.40	0.40	1	"	"	"	"	"	
7440-47-3	Chromium	11.0		mg/kg	0.40	0.40	1	"	"	"	"	"	
7439-92-1	Lead	10.1		mg/kg	0.40	0.40	1	"	"	"	"	"	
7782-49-2	Selenium	< 1.6		mg/kg	1.6	1.6	1	"	"	"	"	"	
7440-22-4	Silver	< 0.40		mg/kg	0.40	0.40	1	"	"	"	"	"	

Prepared by method 409828-*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

7439-97-6	Mercury	< 0.03		mg/kg	0.03	0.03	1	SW7471B	16-Nov-17	16-Nov-17 15:09	11301	409828A	
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Subcontracted AnalysesPrepared by method 409770-SW8270*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

91-57-6	2-Methylnaphthalene	< 150		ug/kg	150	150	10	SW8270D (SIM)	15-Nov-17	16-Nov-17 13:03	11301	409770A	
83-32-9	Acenaphthene	< 150		ug/kg	150	150	10	"	"	"	"	"	
208-96-8	Acenaphthylene	< 150		ug/kg	150	150	10	"	"	"	"	"	
120-12-7	Anthracene	< 150		ug/kg	150	150	10	"	"	"	"	"	
56-55-3	Benz(a)anthracene	< 150		ug/kg	150	150	10	"	"	"	"	"	
50-32-8	Benzo(a)pyrene	< 150		ug/kg	150	150	10	"	"	"	"	"	
205-99-2	Benzo(b)fluoranthene	< 150		ug/kg	150	150	10	"	"	"	"	"	
191-24-2	Benzo(ghi)perylene	< 150		ug/kg	150	150	10	"	"	"	"	"	
207-08-9	Benzo(k)fluoranthene	< 150		ug/kg	150	150	10	"	"	"	"	"	
218-01-9	Chrysene	< 150		ug/kg	150	150	10	"	"	"	"	"	
53-70-3	Dibenz(a,h)anthracene	< 150		ug/kg	150	150	10	"	"	"	"	"	
206-44-0	Fluoranthene	220		ug/kg	150	150	10	"	"	"	"	"	
86-73-7	Fluorene	< 150		ug/kg	150	150	10	"	"	"	"	"	
193-39-5	Indeno(1,2,3-cd)pyrene	< 150		ug/kg	150	150	10	"	"	"	"	"	
91-20-3	Naphthalene	< 150		ug/kg	150	150	10	"	"	"	"	"	
85-01-8	Phenanthrene	190		ug/kg	150	150	10	"	"	"	"	"	
129-00-0	Pyrene	200		ug/kg	150	150	10	"	"	"	"	"	

Surrogate recoveries:

321-60-8	% 2-Fluorobiphenyl	60			30-130 %			"	"	"	"	"	
4165-60-0	% Nitrobenzene-d5	60			30-130 %			"	"	"	"	"	
98904-43-9	% Terphenyl-d14	71			30-130 %			"	"	"	"	"	

*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

Percent Solid	85	%					1	SW846-%Solid	09-Nov-17 11:10	15-Nov-17 21:34	11301	'[none]'	
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Sample Identification**Trip Blank**

SC41491-16

Client Project #

17-217

MatrixMethanol/Deionized
WaterCollection Date/Time

10-Nov-17 00:00

Received

10-Nov-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5035A Soil (low level)</u>													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.00	U	µg/kg wet	5.00	2.54	1	SW846 8260C	16-Nov-17	16-Nov-17	MP	1719357	X
67-64-1	Acetone	< 50.0	U	µg/kg wet	50.0	20.0	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 5.00	U	µg/kg wet	5.00	4.80	1	"	"	"	"	"	X
71-43-2	Benzene	< 5.00	U	µg/kg wet	5.00	1.32	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 5.00	U	µg/kg wet	5.00	1.34	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.00	U	µg/kg wet	5.00	2.52	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 5.00	U	µg/kg wet	5.00	3.34	1	"	"	"	"	"	X
75-25-2	Bromoform	< 5.00	U	µg/kg wet	5.00	4.77	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 10.0	U	µg/kg wet	10.0	4.52	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0	U	µg/kg wet	10.0	8.94	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 5.00	U	µg/kg wet	5.00	1.43	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 5.00	U	µg/kg wet	5.00	0.91	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 5.00	U	µg/kg wet	5.00	1.12	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 10.0	U	µg/kg wet	10.0	3.20	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 5.00	U	µg/kg wet	5.00	4.09	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 5.00	U	µg/kg wet	5.00	1.56	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 10.0	U	µg/kg wet	10.0	2.78	1	"	"	"	"	"	X
67-66-3	Chloroform	< 5.00	U	µg/kg wet	5.00	2.68	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 10.0	U	µg/kg wet	10.0	2.06	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 5.00	U	µg/kg wet	5.00	1.24	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 5.00	U	µg/kg wet	5.00	1.18	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 10.0	U	µg/kg wet	10.0	7.22	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 5.00	U	µg/kg wet	5.00	3.39	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 5.00	U	µg/kg wet	5.00	3.36	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 5.00	U	µg/kg wet	5.00	2.60	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00	1.30	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00	1.08	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00	1.48	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 10.0	U	µg/kg wet	10.0	1.90	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 5.00	U	µg/kg wet	5.00	1.31	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 5.00	U	µg/kg wet	5.00	1.79	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 5.00	U	µg/kg wet	5.00	2.62	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00	1.86	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00	2.65	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00	2.62	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 5.00	U	µg/kg wet	5.00	2.59	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00	2.36	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 5.00	U	µg/kg wet	5.00	1.61	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00	3.02	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00	2.62	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 5.00	U	µg/kg wet	5.00	0.72	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 5.00	U	µg/kg wet	5.00	2.51	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0	U	µg/kg wet	10.0	6.14	1	"	"	"	"	"	X

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Sample Identification

Trip Blank

SC41491-16

Client Project #

17-217

MatrixMethanol/Deionized
WaterCollection Date/Time

10-Nov-17 00:00

Received

10-Nov-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
98-82-8	Isopropylbenzene	< 5.00	U	µg/kg wet	5.00	0.98	1	SW846 8260C	16-Nov-17	16-Nov-17	MP	1719357	X
99-87-6	4-Isopropyltoluene	< 5.00	U	µg/kg wet	5.00	1.08	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00	1.84	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0	U	µg/kg wet	10.0	2.57	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 10.0	U	µg/kg wet	10.0	1.98	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 5.00	U	µg/kg wet	5.00	2.98	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 5.00	U	µg/kg wet	5.00	0.81	1	"	"	"	"	"	X
100-42-5	Styrene	< 5.00	U	µg/kg wet	5.00	1.00	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00	4.25	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00	4.23	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 5.00	U	µg/kg wet	5.00	1.71	1	"	"	"	"	"	X
108-88-3	Toluene	< 5.00	U	µg/kg wet	5.00	1.62	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00	1.76	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00	3.68	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00	1.57	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 5.00	U	µg/kg wet	5.00	1.66	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 5.00	U	µg/kg wet	5.00	3.62	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 5.00	U	µg/kg wet	5.00	1.36	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 5.00	U	µg/kg wet	5.00	2.70	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 5.00	U	µg/kg wet	5.00	3.75	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00	1.22	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00	0.86	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 5.00	U	µg/kg wet	5.00	1.69	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 10.0	U	µg/kg wet	10.0	0.90	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 5.00	U	µg/kg wet	5.00	1.40	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 10.0	U	µg/kg wet	10.0	7.88	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 5.00	U	µg/kg wet	5.00	4.53	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 5.00	U	µg/kg wet	5.00	1.67	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00	2.70	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 5.00	U	µg/kg wet	5.00	0.93	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 50.0	U	µg/kg wet	50.0	32.7	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 100	U	µg/kg wet	100	86.8	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 25.0	U	µg/kg wet	25.0	11.4	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1000	U	µg/kg wet	1000	186	1	"	"	"	"	"	

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	91		70-130 %	"	"	"	"	"
2037-26-5	Toluene-d8	106		70-130 %	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	140	SGCMS VOC	70-130 %	"	"	"	"	"
1868-53-7	Dibromofluoromethane	120		70-130 %	"	"	"	"	"

Re-analysis of Volatile Organic Compoundsby SW846 8260Prepared by method SW846 5035A Soil (high level)*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification

Trip Blank

SC41491-16

Client Project #

17-217

MatrixMethanol/Deionized
WaterCollection Date/Time

10-Nov-17 00:00

Received

10-Nov-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Re-analysis of Volatile Organic Compounds</u>													
<u>by SW846 8260</u>													
<u>Prepared by method SW846 5035A Soil (high level)</u>													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 50.0	U, D	µg/kg wet	50.0	25.4	50	SW846 8260C	17-Nov-17	17-Nov-17	MP	1719431	X
67-64-1	Acetone	< 500	U, D	µg/kg wet	500	200	50	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 50.0	U, D	µg/kg wet	50.0	48.0	50	"	"	"	"	"	X
71-43-2	Benzene	< 50.0	U, D	µg/kg wet	50.0	13.2	50	"	"	"	"	"	X
108-86-1	Bromobenzene	< 50.0	U, D	µg/kg wet	50.0	13.4	50	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 50.0	U, D	µg/kg wet	50.0	25.2	50	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 50.0	U, D	µg/kg wet	50.0	33.4	50	"	"	"	"	"	X
75-25-2	Bromoform	< 50.0	U, D	µg/kg wet	50.0	47.7	50	"	"	"	"	"	X
74-83-9	Bromomethane	< 100	U, D	µg/kg wet	100	45.2	50	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 100	U, D	µg/kg wet	100	89.4	50	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0	14.3	50	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0	9.10	50	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0	11.2	50	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 100	U, D	µg/kg wet	100	32.0	50	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 50.0	U, D	µg/kg wet	50.0	40.9	50	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 50.0	U, D	µg/kg wet	50.0	15.6	50	"	"	"	"	"	X
75-00-3	Chloroethane	< 100	U, D	µg/kg wet	100	27.8	50	"	"	"	"	"	X
67-66-3	Chloroform	< 50.0	U, D	µg/kg wet	50.0	26.8	50	"	"	"	"	"	X
74-87-3	Chloromethane	< 100	U, D	µg/kg wet	100	20.6	50	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 50.0	U, D	µg/kg wet	50.0	12.4	50	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 50.0	U, D	µg/kg wet	50.0	11.8	50	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 100	U, D	µg/kg wet	100	72.2	50	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 50.0	U, D	µg/kg wet	50.0	33.9	50	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 50.0	U, D	µg/kg wet	50.0	33.6	50	"	"	"	"	"	X
74-95-3	Dibromomethane	< 50.0	U, D	µg/kg wet	50.0	26.0	50	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0	13.0	50	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0	10.8	50	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0	14.8	50	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 100	U, D	µg/kg wet	100	19.0	50	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0	13.1	50	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0	17.9	50	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0	26.2	50	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0	18.6	50	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0	26.5	50	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0	26.2	50	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0	25.9	50	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0	23.6	50	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0	16.1	50	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0	30.2	50	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0	26.2	50	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 50.0	U, D	µg/kg wet	50.0	7.20	50	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 50.0	U, D	µg/kg wet	50.0	25.1	50	"	"	"	"	"	X

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Sample Identification

Trip Blank

SC41491-16

Client Project #

17-217

MatrixMethanol/Deionized
WaterCollection Date/Time

10-Nov-17 00:00

Received

10-Nov-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
<u>Re-analysis of Volatile Organic Compounds</u>													
<u>by SW846 8260</u>													
591-78-6	2-Hexanone (MBK)	< 100	U, D	µg/kg wet	100	61.4	50	SW846 8260C	17-Nov-17	17-Nov-17	MP	1719431	X
98-82-8	Isopropylbenzene	< 50.0	U, D	µg/kg wet	50.0	9.85	50	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 50.0	U, D	µg/kg wet	50.0	10.8	50	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 50.0	U, D	µg/kg wet	50.0	18.4	50	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 100	U, D	µg/kg wet	100	25.7	50	"	"	"	"	"	X
75-09-2	Methylene chloride	< 100	U, D	µg/kg wet	100	19.8	50	"	"	"	"	"	X
91-20-3	Naphthalene	< 50.0	U, D	µg/kg wet	50.0	29.8	50	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 50.0	U, D	µg/kg wet	50.0	8.10	50	"	"	"	"	"	X
100-42-5	Styrene	< 50.0	U, D	µg/kg wet	50.0	10.0	50	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0	42.5	50	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0	42.3	50	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 50.0	U, D	µg/kg wet	50.0	17.1	50	"	"	"	"	"	X
108-88-3	Toluene	< 50.0	U, D	µg/kg wet	50.0	16.2	50	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0	17.6	50	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0	36.8	50	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0	15.7	50	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0	16.6	50	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0	36.2	50	"	"	"	"	"	X
79-01-6	Trichloroethene	< 50.0	U, D	µg/kg wet	50.0	13.6	50	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 50.0	U, D	µg/kg wet	50.0	27.0	50	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 50.0	U, D	µg/kg wet	50.0	37.5	50	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 50.0	U, D	µg/kg wet	50.0	12.2	50	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 50.0	U, D	µg/kg wet	50.0	8.60	50	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 50.0	U, D	µg/kg wet	50.0	16.9	50	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 100	U, D	µg/kg wet	100	9.00	50	"	"	"	"	"	X
95-47-6	o-Xylene	< 50.0	U, D	µg/kg wet	50.0	14.0	50	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 100	U, D	µg/kg wet	100	78.8	50	"	"	"	"	"	
60-29-7	Ethyl ether	< 50.0	U, D	µg/kg wet	50.0	45.3	50	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 50.0	U, D	µg/kg wet	50.0	16.7	50	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 50.0	U, D	µg/kg wet	50.0	27.0	50	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 50.0	U, D	µg/kg wet	50.0	9.30	50	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 500	U, D	µg/kg wet	500	327	50	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 1000	U, D	µg/kg wet	1000	868	50	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 250	U, D	µg/kg wet	250	114	50	"	"	"	"	"	X
64-17-5	Ethanol	< 10000	U, D	µg/kg wet	10000	1860	50	"	"	"	"	"	
<u>Surrogate recoveries:</u>													
460-00-4	4-Bromofluorobenzene	97			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	101			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	105			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	98			70-130 %			"	"	"	"	"	

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719306 - SW846 5035A Soil (low level)										
Blank (1719306-BLK1)					<u>Prepared & Analyzed: 15-Nov-17</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.00	U	µg/kg wet	5.00						
Acetone	< 50.0	U	µg/kg wet	50.0						
Acrylonitrile	< 5.00	U	µg/kg wet	5.00						
Benzene	< 5.00	U	µg/kg wet	5.00						
Bromobenzene	< 5.00	U	µg/kg wet	5.00						
Bromochloromethane	< 5.00	U	µg/kg wet	5.00						
Bromodichloromethane	< 5.00	U	µg/kg wet	5.00						
Bromoform	< 5.00	U	µg/kg wet	5.00						
Bromomethane	< 10.0	U	µg/kg wet	10.0						
2-Butanone (MEK)	< 10.0	U	µg/kg wet	10.0						
n-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
sec-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
tert-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
Carbon disulfide	< 10.0	U	µg/kg wet	10.0						
Carbon tetrachloride	< 5.00	U	µg/kg wet	5.00						
Chlorobenzene	< 5.00	U	µg/kg wet	5.00						
Chloroethane	< 10.0	U	µg/kg wet	10.0						
Chloroform	< 5.00	U	µg/kg wet	5.00						
Chloromethane	< 10.0	U	µg/kg wet	10.0						
2-Chlorotoluene	< 5.00	U	µg/kg wet	5.00						
4-Chlorotoluene	< 5.00	U	µg/kg wet	5.00						
1,2-Dibromo-3-chloropropane	< 10.0	U	µg/kg wet	10.0						
Dibromochloromethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dibromoethane (EDB)	< 5.00	U	µg/kg wet	5.00						
Dibromomethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,3-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,4-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
Dichlorodifluoromethane (Freon12)	< 10.0	U	µg/kg wet	10.0						
1,1-Dichloroethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dichloroethane	< 5.00	U	µg/kg wet	5.00						
1,1-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
cis-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
trans-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
1,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
1,3-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
2,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
1,1-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
cis-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
trans-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
Ethylbenzene	< 5.00	U	µg/kg wet	5.00						
Hexachlorobutadiene	< 5.00	U	µg/kg wet	5.00						
2-Hexanone (MBK)	< 10.0	U	µg/kg wet	10.0						
Isopropylbenzene	< 5.00	U	µg/kg wet	5.00						
4-Isopropyltoluene	< 5.00	U	µg/kg wet	5.00						
Methyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00						
4-Methyl-2-pentanone (MIBK)	< 10.0	U	µg/kg wet	10.0						
Methylene chloride	< 10.0	U	µg/kg wet	10.0						
Naphthalene	< 5.00	U	µg/kg wet	5.00						
n-Propylbenzene	< 5.00	U	µg/kg wet	5.00						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719306 - SW846 5035A Soil (low level)										
Blank (1719306-BLK1)					<u>Prepared & Analyzed: 15-Nov-17</u>					
Styrene	< 5.00	U	µg/kg wet	5.00						
1,1,1,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00						
1,1,2,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00						
Tetrachloroethene	< 5.00	U	µg/kg wet	5.00						
Toluene	< 5.00	U	µg/kg wet	5.00						
1,2,3-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,2,4-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,3,5-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,1,1-Trichloroethane	< 5.00	U	µg/kg wet	5.00						
1,1,2-Trichloroethane	< 5.00	U	µg/kg wet	5.00						
Trichloroethene	< 5.00	U	µg/kg wet	5.00						
Trichlorofluoromethane (Freon 11)	< 5.00	U	µg/kg wet	5.00						
1,2,3-Trichloropropane	< 5.00	U	µg/kg wet	5.00						
1,2,4-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00						
1,3,5-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00						
Vinyl chloride	< 5.00	U	µg/kg wet	5.00						
m,p-Xylene	< 10.0	U	µg/kg wet	10.0						
o-Xylene	< 5.00	U	µg/kg wet	5.00						
Tetrahydrofuran	< 10.0	U	µg/kg wet	10.0						
Ethyl ether	< 5.00	U	µg/kg wet	5.00						
Tert-amyl methyl ether	< 5.00	U	µg/kg wet	5.00						
Ethyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00						
Di-isopropyl ether	< 5.00	U	µg/kg wet	5.00						
Tert-Butanol / butyl alcohol	< 50.0	U	µg/kg wet	50.0						
1,4-Dioxane	< 100	U	µg/kg wet	100						
trans-1,4-Dichloro-2-butene	< 25.0	U	µg/kg wet	25.0						
Ethanol	< 1000	U	µg/kg wet	1000						
Surrogate: 4-Bromofluorobenzene	45.7		µg/kg		50.0		91	70-130		
Surrogate: Toluene-d8	52.1		µg/kg		50.0		104	70-130		
Surrogate: 1,2-Dichloroethane-d4	64.6		µg/kg		50.0		129	70-130		
Surrogate: Dibromofluoromethane	57.4		µg/kg		50.0		115	70-130		
LCS (1719306-BS1)					<u>Prepared & Analyzed: 15-Nov-17</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	21.5		µg/kg		20.0		108	70-130		
Acetone	31.5		µg/kg		20.0		158	70-130		
Acrylonitrile	17.7		µg/kg		20.0		88	70-130		
Benzene	19.2		µg/kg		20.0		96	70-130		
Bromobenzene	19.3		µg/kg		20.0		97	70-130		
Bromochloromethane	20.5		µg/kg		20.0		102	70-130		
Bromodichloromethane	20.6		µg/kg		20.0		103	70-130		
Bromoform	16.2		µg/kg		20.0		81	70-130		
Bromomethane	20.2		µg/kg		20.0		101	70-130		
2-Butanone (MEK)	18.8		µg/kg		20.0		94	70-130		
n-Butylbenzene	20.4		µg/kg		20.0		102	70-130		
sec-Butylbenzene	20.1		µg/kg		20.0		100	70-130		
tert-Butylbenzene	19.4		µg/kg		20.0		97	70-130		
Carbon disulfide	17.0		µg/kg		20.0		85	70-130		
Carbon tetrachloride	22.2		µg/kg		20.0		111	70-130		
Chlorobenzene	19.3		µg/kg		20.0		96	70-130		
Chloroethane	20.2		µg/kg		20.0		101	70-130		
Chloroform	21.0		µg/kg		20.0		105	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719306 - SW846 5035A Soil (low level)										
LCS (1719306-BS1)					Prepared & Analyzed: 15-Nov-17					
Chloromethane	12.9		µg/kg		20.0		64	70-130		
2-Chlorotoluene	19.9		µg/kg		20.0		100	70-130		
4-Chlorotoluene	20.4		µg/kg		20.0		102	70-130		
1,2-Dibromo-3-chloropropane	15.8		µg/kg		20.0		79	70-130		
Dibromochloromethane	19.8		µg/kg		20.0		99	70-130		
1,2-Dibromoethane (EDB)	19.6		µg/kg		20.0		98	70-130		
Dibromomethane	21.0		µg/kg		20.0		105	70-130		
1,2-Dichlorobenzene	18.9		µg/kg		20.0		94	70-130		
1,3-Dichlorobenzene	20.1		µg/kg		20.0		100	70-130		
1,4-Dichlorobenzene	19.2		µg/kg		20.0		96	70-130		
Dichlorodifluoromethane (Freon12)	18.5		µg/kg		20.0		92	70-130		
1,1-Dichloroethane	19.6		µg/kg		20.0		98	70-130		
1,2-Dichloroethane	22.8		µg/kg		20.0		114	70-130		
1,1-Dichloroethene	18.3		µg/kg		20.0		91	70-130		
cis-1,2-Dichloroethene	19.8		µg/kg		20.0		99	70-130		
trans-1,2-Dichloroethene	19.0		µg/kg		20.0		95	70-130		
1,2-Dichloropropane	18.8		µg/kg		20.0		94	70-130		
1,3-Dichloropropane	20.0		µg/kg		20.0		100	70-130		
2,2-Dichloropropane	17.9		µg/kg		20.0		90	70-130		
1,1-Dichloropropene	19.6		µg/kg		20.0		98	70-130		
cis-1,3-Dichloropropene	17.4		µg/kg		20.0		87	70-130		
trans-1,3-Dichloropropene	16.9		µg/kg		20.0		85	70-130		
Ethylbenzene	19.0		µg/kg		20.0		95	70-130		
Hexachlorobutadiene	20.8		µg/kg		20.0		104	70-130		
2-Hexanone (MBK)	19.4		µg/kg		20.0		97	70-130		
Isopropylbenzene	19.6		µg/kg		20.0		98	70-130		
4-Isopropyltoluene	20.1		µg/kg		20.0		100	70-130		
Methyl tert-butyl ether	15.9		µg/kg		20.0		80	70-130		
4-Methyl-2-pentanone (MIBK)	16.2		µg/kg		20.0		81	70-130		
Methylene chloride	19.1		µg/kg		20.0		95	70-130		
Naphthalene	16.0		µg/kg		20.0		80	70-130		
n-Propylbenzene	19.5		µg/kg		20.0		97	70-130		
Styrene	17.6		µg/kg		20.0		88	70-130		
1,1,1,2-Tetrachloroethane	19.4		µg/kg		20.0		97	70-130		
1,1,2,2-Tetrachloroethane	18.0		µg/kg		20.0		90	70-130		
Tetrachloroethene	21.1		µg/kg		20.0		106	70-130		
Toluene	19.9		µg/kg		20.0		99	70-130		
1,2,3-Trichlorobenzene	21.4		µg/kg		20.0		107	70-130		
1,2,4-Trichlorobenzene	20.3		µg/kg		20.0		101	70-130		
1,3,5-Trichlorobenzene	21.1		µg/kg		20.0		106	70-130		
1,1,1-Trichloroethane	20.9		µg/kg		20.0		105	70-130		
1,1,2-Trichloroethane	19.8		µg/kg		20.0		99	70-130		
Trichloroethene	20.0		µg/kg		20.0		100	70-130		
Trichlorofluoromethane (Freon 11)	26.0		µg/kg		20.0		130	70-130		
1,2,3-Trichloropropane	19.1		µg/kg		20.0		96	70-130		
1,2,4-Trimethylbenzene	20.2		µg/kg		20.0		101	70-130		
1,3,5-Trimethylbenzene	19.7		µg/kg		20.0		98	70-130		
Vinyl chloride	22.9		µg/kg		20.0		115	70-130		
m,p-Xylene	17.9		µg/kg		20.0		90	70-130		
o-Xylene	18.9		µg/kg		20.0		95	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8260C</u>										
Batch 1719306 - SW846 5035A Soil (low level)										
<u>LCS (1719306-BS1)</u>					<u>Prepared & Analyzed: 15-Nov-17</u>					
Tetrahydrofuran	15.4		µg/kg		20.0		77	70-130		
Ethyl ether	18.9		µg/kg		20.0		94	70-130		
Tert-amyl methyl ether	23.2		µg/kg		20.0		116	70-130		
Ethyl tert-butyl ether	16.6		µg/kg		20.0		83	70-130		
Di-isopropyl ether	17.8		µg/kg		20.0		89	70-130		
Tert-Butanol / butyl alcohol	167		µg/kg		200		83	70-130		
1,4-Dioxane	154		µg/kg		200		77	70-130		
trans-1,4-Dichloro-2-butene	15.1		µg/kg		20.0		75	70-130		
Ethanol	337		µg/kg		400		84	70-130		
Surrogate: 4-Bromofluorobenzene	50.7		µg/kg		50.0		101	70-130		
Surrogate: Toluene-d8	51.8		µg/kg		50.0		104	70-130		
Surrogate: 1,2-Dichloroethane-d4	56.6		µg/kg		50.0		113	70-130		
Surrogate: Dibromofluoromethane	55.6		µg/kg		50.0		111	70-130		
<u>LCS Dup (1719306-BSD1)</u>					<u>Prepared & Analyzed: 15-Nov-17</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	21.2		µg/kg		20.0		106	70-130	1	30
Acetone	23.3		µg/kg		20.0		116	70-130	30	30
Acrylonitrile	17.6		µg/kg		20.0		88	70-130	0.3	30
Benzene	19.2		µg/kg		20.0		96	70-130	0.2	30
Bromobenzene	19.4		µg/kg		20.0		97	70-130	0.3	30
Bromochloromethane	20.6		µg/kg		20.0		103	70-130	0.7	30
Bromodichloromethane	20.8		µg/kg		20.0		104	70-130	0.9	30
Bromoform	15.5		µg/kg		20.0		77	70-130	4	30
Bromomethane	20.4		µg/kg		20.0		102	70-130	0.8	30
2-Butanone (MEK)	17.7		µg/kg		20.0		88	70-130	6	30
n-Butylbenzene	20.3		µg/kg		20.0		101	70-130	0.5	30
sec-Butylbenzene	20.1		µg/kg		20.0		100	70-130	0	30
tert-Butylbenzene	19.3		µg/kg		20.0		96	70-130	0.8	30
Carbon disulfide	17.2		µg/kg		20.0		86	70-130	1	30
Carbon tetrachloride	21.9		µg/kg		20.0		109	70-130	2	30
Chlorobenzene	19.5		µg/kg		20.0		98	70-130	1	30
Chloroethane	20.8		µg/kg		20.0		104	70-130	3	30
Chloroform	21.0		µg/kg		20.0		105	70-130	0.3	30
Chloromethane	17.0		µg/kg		20.0		85	70-130	28	30
2-Chlorotoluene	20.1		µg/kg		20.0		100	70-130	0.7	30
4-Chlorotoluene	20.7		µg/kg		20.0		103	70-130	1	30
1,2-Dibromo-3-chloropropane	15.4		µg/kg		20.0		77	70-130	2	30
Dibromochloromethane	19.3		µg/kg		20.0		97	70-130	2	30
1,2-Dibromoethane (EDB)	19.5		µg/kg		20.0		98	70-130	0.4	30
Dibromomethane	20.5		µg/kg		20.0		103	70-130	3	30
1,2-Dichlorobenzene	18.7		µg/kg		20.0		94	70-130	1	30
1,3-Dichlorobenzene	20.4		µg/kg		20.0		102	70-130	2	30
1,4-Dichlorobenzene	19.0		µg/kg		20.0		95	70-130	1	30
Dichlorodifluoromethane (Freon12)	18.6		µg/kg		20.0		93	70-130	0.4	30
1,1-Dichloroethane	19.5		µg/kg		20.0		98	70-130	0.6	30
1,2-Dichloroethane	22.8		µg/kg		20.0		114	70-130	0.04	30
1,1-Dichloroethene	18.1		µg/kg		20.0		91	70-130	0.9	30
cis-1,2-Dichloroethene	19.6		µg/kg		20.0		98	70-130	1	30
trans-1,2-Dichloroethene	18.7		µg/kg		20.0		94	70-130	1	30
1,2-Dichloropropane	18.6		µg/kg		20.0		93	70-130	1	30
1,3-Dichloropropane	19.3		µg/kg		20.0		97	70-130	4	30

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719306 - SW846 5035A Soil (low level)										
LCS Dup (1719306-BSD1)					Prepared & Analyzed: 15-Nov-17					
2,2-Dichloropropane	17.9		µg/kg		20.0		90	70-130	0.2	30
1,1-Dichloropropene	19.8		µg/kg		20.0		99	70-130	0.7	30
cis-1,3-Dichloropropene	17.4		µg/kg		20.0		87	70-130	0.5	30
trans-1,3-Dichloropropene	16.9		µg/kg		20.0		85	70-130	0.06	30
Ethylbenzene	19.2		µg/kg		20.0		96	70-130	0.8	30
Hexachlorobutadiene	21.3		µg/kg		20.0		107	70-130	2	30
2-Hexanone (MBK)	17.0		µg/kg		20.0		85	70-130	13	30
Isopropylbenzene	19.6		µg/kg		20.0		98	70-130	0.1	30
4-Isopropyltoluene	19.8		µg/kg		20.0		99	70-130	1	30
Methyl tert-butyl ether	16.0		µg/kg		20.0		80	70-130	0.3	30
4-Methyl-2-pentanone (MIBK)	16.0		µg/kg		20.0		80	70-130	2	30
Methylene chloride	18.7		µg/kg		20.0		93	70-130	2	30
Naphthalene	16.3		µg/kg		20.0		82	70-130	2	30
n-Propylbenzene	19.6		µg/kg		20.0		98	70-130	0.6	30
Styrene	17.0		µg/kg		20.0		85	70-130	3	30
1,1,1,2-Tetrachloroethane	19.9		µg/kg		20.0		99	70-130	2	30
1,1,2,2-Tetrachloroethane	17.9		µg/kg		20.0		89	70-130	0.6	30
Tetrachloroethene	21.1		µg/kg		20.0		106	70-130	0.05	30
Toluene	19.7		µg/kg		20.0		98	70-130	1	30
1,2,3-Trichlorobenzene	21.4		µg/kg		20.0		107	70-130	0.4	30
1,2,4-Trichlorobenzene	20.0		µg/kg		20.0		100	70-130	1	30
1,3,5-Trichlorobenzene	20.8		µg/kg		20.0		104	70-130	1	30
1,1,1-Trichloroethane	21.0		µg/kg		20.0		105	70-130	0.4	30
1,1,2-Trichloroethane	19.7		µg/kg		20.0		98	70-130	0.5	30
Trichloroethene	20.4		µg/kg		20.0		102	70-130	2	30
Trichlorofluoromethane (Freon 11)	25.9		µg/kg		20.0		129	70-130	0.4	30
1,2,3-Trichloropropane	18.3		µg/kg		20.0		91	70-130	5	30
1,2,4-Trimethylbenzene	19.9		µg/kg		20.0		99	70-130	1	30
1,3,5-Trimethylbenzene	19.8		µg/kg		20.0		99	70-130	0.3	30
Vinyl chloride	22.5		µg/kg		20.0		112	70-130	2	30
m,p-Xylene	18.4		µg/kg		20.0		92	70-130	3	30
o-Xylene	19.0		µg/kg		20.0		95	70-130	0.1	30
Tetrahydrofuran	15.3		µg/kg		20.0		76	70-130	0.8	30
Ethyl ether	18.9		µg/kg		20.0		95	70-130	0.3	30
Tert-amyl methyl ether	23.3		µg/kg		20.0		116	70-130	0.3	30
Ethyl tert-butyl ether	16.5		µg/kg		20.0		82	70-130	0.8	30
Di-isopropyl ether	17.7		µg/kg		20.0		89	70-130	0.5	30
Tert-Butanol / butyl alcohol	161		µg/kg		200		81	70-130	3	30
1,4-Dioxane	148		µg/kg		200		74	70-130	4	30
trans-1,4-Dichloro-2-butene	13.0	QM9	µg/kg		20.0		65	70-130	15	30
Ethanol	333		µg/kg		400		83	70-130	1	30
Surrogate: 4-Bromofluorobenzene	50.1		µg/kg		50.0		100	70-130		
Surrogate: Toluene-d8	51.7		µg/kg		50.0		103	70-130		
Surrogate: 1,2-Dichloroethane-d4	56.9		µg/kg		50.0		114	70-130		
Surrogate: Dibromofluoromethane	55.6		µg/kg		50.0		111	70-130		
Batch 1719357 - SW846 5035A Soil (low level)										
Blank (1719357-BLK1)					Prepared & Analyzed: 16-Nov-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.00	U	µg/kg wet	5.00						
Acetone	< 50.0	U	µg/kg wet	50.0						
Acrylonitrile	< 5.00	U	µg/kg wet	5.00						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719357 - SW846 5035A Soil (low level)										
Blank (1719357-BLK1)					<u>Prepared & Analyzed: 16-Nov-17</u>					
Benzene	< 5.00	U	µg/kg wet	5.00						
Bromobenzene	< 5.00	U	µg/kg wet	5.00						
Bromochloromethane	< 5.00	U	µg/kg wet	5.00						
Bromodichloromethane	< 5.00	U	µg/kg wet	5.00						
Bromoform	< 5.00	U	µg/kg wet	5.00						
Bromomethane	< 10.0	U	µg/kg wet	10.0						
2-Butanone (MEK)	< 10.0	U	µg/kg wet	10.0						
n-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
sec-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
tert-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
Carbon disulfide	< 10.0	U	µg/kg wet	10.0						
Carbon tetrachloride	< 5.00	U	µg/kg wet	5.00						
Chlorobenzene	< 5.00	U	µg/kg wet	5.00						
Chloroethane	< 10.0	U	µg/kg wet	10.0						
Chloroform	< 5.00	U	µg/kg wet	5.00						
Chloromethane	< 10.0	U	µg/kg wet	10.0						
2-Chlorotoluene	< 5.00	U	µg/kg wet	5.00						
4-Chlorotoluene	< 5.00	U	µg/kg wet	5.00						
1,2-Dibromo-3-chloropropane	< 10.0	U	µg/kg wet	10.0						
Dibromochloromethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dibromoethane (EDB)	< 5.00	U	µg/kg wet	5.00						
Dibromomethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,3-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,4-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
Dichlorodifluoromethane (Freon12)	< 10.0	U	µg/kg wet	10.0						
1,1-Dichloroethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dichloroethane	< 5.00	U	µg/kg wet	5.00						
1,1-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
cis-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
trans-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
1,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
1,3-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
2,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
1,1-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
cis-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
trans-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
Ethylbenzene	< 5.00	U	µg/kg wet	5.00						
Hexachlorobutadiene	< 5.00	U	µg/kg wet	5.00						
2-Hexanone (MBK)	< 10.0	U	µg/kg wet	10.0						
Isopropylbenzene	< 5.00	U	µg/kg wet	5.00						
4-Isopropyltoluene	< 5.00	U	µg/kg wet	5.00						
Methyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00						
4-Methyl-2-pentanone (MIBK)	< 10.0	U	µg/kg wet	10.0						
Methylene chloride	< 10.0	U	µg/kg wet	10.0						
Naphthalene	< 5.00	U	µg/kg wet	5.00						
n-Propylbenzene	< 5.00	U	µg/kg wet	5.00						
Styrene	< 5.00	U	µg/kg wet	5.00						
1,1,1,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00						
1,1,2,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8260C</u>										
Batch 1719357 - SW846 5035A Soil (low level)										
<u>Blank (1719357-BLK1)</u>					<u>Prepared & Analyzed: 16-Nov-17</u>					
Tetrachloroethene	< 5.00	U	µg/kg wet	5.00						
Toluene	< 5.00	U	µg/kg wet	5.00						
1,2,3-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,2,4-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,3,5-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,1,1-Trichloroethane	< 5.00	U	µg/kg wet	5.00						
1,1,2-Trichloroethane	< 5.00	U	µg/kg wet	5.00						
Trichloroethene	< 5.00	U	µg/kg wet	5.00						
Trichlorofluoromethane (Freon 11)	< 5.00	U	µg/kg wet	5.00						
1,2,3-Trichloropropane	< 5.00	U	µg/kg wet	5.00						
1,2,4-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00						
1,3,5-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00						
Vinyl chloride	< 5.00	U	µg/kg wet	5.00						
m,p-Xylene	< 10.0	U	µg/kg wet	10.0						
o-Xylene	< 5.00	U	µg/kg wet	5.00						
Tetrahydrofuran	< 10.0	U	µg/kg wet	10.0						
Ethyl ether	< 5.00	U	µg/kg wet	5.00						
Tert-amyl methyl ether	< 5.00	U	µg/kg wet	5.00						
Ethyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00						
Di-isopropyl ether	< 5.00	U	µg/kg wet	5.00						
Tert-Butanol / butyl alcohol	< 50.0	U	µg/kg wet	50.0						
1,4-Dioxane	< 100	U	µg/kg wet	100						
trans-1,4-Dichloro-2-butene	< 25.0	U	µg/kg wet	25.0						
Ethanol	< 1000	U	µg/kg wet	1000						
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>46.1</i>		µg/kg		<i>50.0</i>		<i>92</i>	<i>70-130</i>		
<i>Surrogate: Toluene-d8</i>	<i>52.1</i>		µg/kg		<i>50.0</i>		<i>104</i>	<i>70-130</i>		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>64.6</i>		µg/kg		<i>50.0</i>		<i>129</i>	<i>70-130</i>		
<i>Surrogate: Dibromofluoromethane</i>	<i>57.4</i>		µg/kg		<i>50.0</i>		<i>115</i>	<i>70-130</i>		
<u>LCS (1719357-BB1)</u>					<u>Prepared & Analyzed: 16-Nov-17</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	21.1		µg/kg		20.0		105	70-130		
Acetone	20.1		µg/kg		20.0		101	70-130		
Acrylonitrile	17.6		µg/kg		20.0		88	70-130		
Benzene	19.3		µg/kg		20.0		96	70-130		
Bromobenzene	19.4		µg/kg		20.0		97	70-130		
Bromochloromethane	20.7		µg/kg		20.0		103	70-130		
Bromodichloromethane	20.8		µg/kg		20.0		104	70-130		
Bromoform	15.9		µg/kg		20.0		79	70-130		
Bromomethane	18.9		µg/kg		20.0		94	70-130		
2-Butanone (MEK)	20.2		µg/kg		20.0		101	70-130		
n-Butylbenzene	20.1		µg/kg		20.0		101	70-130		
sec-Butylbenzene	19.7		µg/kg		20.0		98	70-130		
tert-Butylbenzene	18.8		µg/kg		20.0		94	70-130		
Carbon disulfide	16.8		µg/kg		20.0		84	70-130		
Carbon tetrachloride	22.0		µg/kg		20.0		110	70-130		
Chlorobenzene	19.5		µg/kg		20.0		97	70-130		
Chloroethane	19.9		µg/kg		20.0		100	70-130		
Chloroform	21.1		µg/kg		20.0		106	70-130		
Chloromethane	16.6		µg/kg		20.0		83	70-130		
2-Chlorotoluene	19.9		µg/kg		20.0		99	70-130		
4-Chlorotoluene	20.4		µg/kg		20.0		102	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8260C</u>										
Batch 1719357 - SW846 5035A Soil (low level)										
<u>LCS (1719357-BS1)</u>					<u>Prepared & Analyzed: 16-Nov-17</u>					
1,2-Dibromo-3-chloropropane	15.2		µg/kg		20.0		76	70-130		
Dibromochloromethane	20.1		µg/kg		20.0		101	70-130		
1,2-Dibromoethane (EDB)	19.6		µg/kg		20.0		98	70-130		
Dibromomethane	21.0		µg/kg		20.0		105	70-130		
1,2-Dichlorobenzene	19.0		µg/kg		20.0		95	70-130		
1,3-Dichlorobenzene	20.0		µg/kg		20.0		100	70-130		
1,4-Dichlorobenzene	18.8		µg/kg		20.0		94	70-130		
Dichlorodifluoromethane (Freon12)	17.5		µg/kg		20.0		88	70-130		
1,1-Dichloroethane	19.8		µg/kg		20.0		99	70-130		
1,2-Dichloroethane	22.9		µg/kg		20.0		115	70-130		
1,1-Dichloroethene	18.3		µg/kg		20.0		91	70-130		
cis-1,2-Dichloroethene	19.7		µg/kg		20.0		98	70-130		
trans-1,2-Dichloroethene	18.8		µg/kg		20.0		94	70-130		
1,2-Dichloropropane	19.0		µg/kg		20.0		95	70-130		
1,3-Dichloropropane	19.8		µg/kg		20.0		99	70-130		
2,2-Dichloropropane	18.6		µg/kg		20.0		93	70-130		
1,1-Dichloropropene	19.8		µg/kg		20.0		99	70-130		
cis-1,3-Dichloropropene	17.6		µg/kg		20.0		88	70-130		
trans-1,3-Dichloropropene	17.7		µg/kg		20.0		88	70-130		
Ethylbenzene	18.9		µg/kg		20.0		94	70-130		
Hexachlorobutadiene	20.4		µg/kg		20.0		102	70-130		
2-Hexanone (MBK)	15.3		µg/kg		20.0		76	70-130		
Isopropylbenzene	19.2		µg/kg		20.0		96	70-130		
4-Isopropyltoluene	20.1		µg/kg		20.0		101	70-130		
Methyl tert-butyl ether	16.1		µg/kg		20.0		81	70-130		
4-Methyl-2-pentanone (MIBK)	15.6		µg/kg		20.0		78	70-130		
Methylene chloride	18.6		µg/kg		20.0		93	70-130		
Naphthalene	16.5		µg/kg		20.0		83	70-130		
n-Propylbenzene	19.3		µg/kg		20.0		96	70-130		
Styrene	16.8		µg/kg		20.0		84	70-130		
1,1,1,2-Tetrachloroethane	20.1		µg/kg		20.0		100	70-130		
1,1,2,2-Tetrachloroethane	17.6		µg/kg		20.0		88	70-130		
Tetrachloroethene	21.0		µg/kg		20.0		105	70-130		
Toluene	19.8		µg/kg		20.0		99	70-130		
1,2,3-Trichlorobenzene	20.6		µg/kg		20.0		103	70-130		
1,2,4-Trichlorobenzene	19.7		µg/kg		20.0		99	70-130		
1,3,5-Trichlorobenzene	21.5		µg/kg		20.0		108	70-130		
1,1,1-Trichloroethane	21.3		µg/kg		20.0		106	70-130		
1,1,2-Trichloroethane	19.4		µg/kg		20.0		97	70-130		
Trichloroethene	20.7		µg/kg		20.0		103	70-130		
Trichlorofluoromethane (Freon 11)	25.8		µg/kg		20.0		129	70-130		
1,2,3-Trichloropropane	17.8		µg/kg		20.0		89	70-130		
1,2,4-Trimethylbenzene	20.2		µg/kg		20.0		101	70-130		
1,3,5-Trimethylbenzene	19.7		µg/kg		20.0		98	70-130		
Vinyl chloride	23.3		µg/kg		20.0		117	70-130		
m,p-Xylene	18.1		µg/kg		20.0		91	70-130		
o-Xylene	18.8		µg/kg		20.0		94	70-130		
Tetrahydrofuran	15.0		µg/kg		20.0		75	70-130		
Ethyl ether	19.2		µg/kg		20.0		96	70-130		
Tert-amyl methyl ether	23.2		µg/kg		20.0		116	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719357 - SW846 5035A Soil (low level)										
LCS (1719357-BS1)					Prepared & Analyzed: 16-Nov-17					
Ethyl tert-butyl ether	16.8		µg/kg		20.0		84	70-130		
Di-isopropyl ether	17.7		µg/kg		20.0		89	70-130		
Tert-Butanol / butyl alcohol	158		µg/kg		200		79	70-130		
1,4-Dioxane	131		µg/kg		200		66	70-130		
trans-1,4-Dichloro-2-butene	13.2	QC2	µg/kg		20.0		66	70-130		
Ethanol	322		µg/kg		400		81	70-130		
Surrogate: 4-Bromofluorobenzene	49.6		µg/kg		50.0		99	70-130		
Surrogate: Toluene-d8	52.2		µg/kg		50.0		104	70-130		
Surrogate: 1,2-Dichloroethane-d4	56.5		µg/kg		50.0		113	70-130		
Surrogate: Dibromofluoromethane	55.8		µg/kg		50.0		112	70-130		
LCS Dup (1719357-BSD1)					Prepared & Analyzed: 16-Nov-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.8		µg/kg		20.0		104	70-130	1	30
Acetone	20.9		µg/kg		20.0		105	70-130	4	30
Acrylonitrile	18.1		µg/kg		20.0		91	70-130	3	30
Benzene	19.0		µg/kg		20.0		95	70-130	1	30
Bromobenzene	19.4		µg/kg		20.0		97	70-130	0.2	30
Bromochloromethane	21.0		µg/kg		20.0		105	70-130	1	30
Bromodichloromethane	21.0		µg/kg		20.0		105	70-130	1	30
Bromoform	16.2		µg/kg		20.0		81	70-130	2	30
Bromomethane	18.0		µg/kg		20.0		90	70-130	5	30
2-Butanone (MEK)	16.1		µg/kg		20.0		80	70-130	23	30
n-Butylbenzene	19.8		µg/kg		20.0		99	70-130	2	30
sec-Butylbenzene	19.5		µg/kg		20.0		98	70-130	0.8	30
tert-Butylbenzene	18.8		µg/kg		20.0		94	70-130	0	30
Carbon disulfide	16.9		µg/kg		20.0		85	70-130	0.5	30
Carbon tetrachloride	22.0		µg/kg		20.0		110	70-130	0.2	30
Chlorobenzene	19.3		µg/kg		20.0		96	70-130	1	30
Chloroethane	18.9		µg/kg		20.0		95	70-130	5	30
Chloroform	21.2		µg/kg		20.0		106	70-130	0.6	30
Chloromethane	18.4		µg/kg		20.0		92	70-130	10	30
2-Chlorotoluene	19.5		µg/kg		20.0		98	70-130	2	30
4-Chlorotoluene	20.2		µg/kg		20.0		101	70-130	0.8	30
1,2-Dibromo-3-chloropropane	14.9		µg/kg		20.0		74	70-130	2	30
Dibromochloromethane	20.2		µg/kg		20.0		101	70-130	0.2	30
1,2-Dibromoethane (EDB)	19.8		µg/kg		20.0		99	70-130	0.8	30
Dibromomethane	21.5		µg/kg		20.0		108	70-130	3	30
1,2-Dichlorobenzene	19.2		µg/kg		20.0		96	70-130	0.8	30
1,3-Dichlorobenzene	20.2		µg/kg		20.0		101	70-130	0.9	30
1,4-Dichlorobenzene	19.1		µg/kg		20.0		95	70-130	1	30
Dichlorodifluoromethane (Freon12)	16.7		µg/kg		20.0		83	70-130	5	30
1,1-Dichloroethane	19.8		µg/kg		20.0		99	70-130	0	30
1,2-Dichloroethane	23.3		µg/kg		20.0		117	70-130	2	30
1,1-Dichloroethene	18.8		µg/kg		20.0		94	70-130	3	30
cis-1,2-Dichloroethene	19.8		µg/kg		20.0		99	70-130	0.7	30
trans-1,2-Dichloroethene	18.9		µg/kg		20.0		94	70-130	0.4	30
1,2-Dichloropropane	18.7		µg/kg		20.0		93	70-130	2	30
1,3-Dichloropropane	19.5		µg/kg		20.0		97	70-130	2	30
2,2-Dichloropropane	18.4		µg/kg		20.0		92	70-130	1	30
1,1-Dichloropropene	19.7		µg/kg		20.0		99	70-130	0.4	30
cis-1,3-Dichloropropene	18.0		µg/kg		20.0		90	70-130	2	30

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719357 - SW846 5035A Soil (low level)										
LCS Dup (1719357-BSD1)					Prepared & Analyzed: 16-Nov-17					
trans-1,3-Dichloropropene	17.6		µg/kg		20.0		88	70-130	0.1	30
Ethylbenzene	18.8		µg/kg		20.0		94	70-130	0.6	30
Hexachlorobutadiene	20.2		µg/kg		20.0		101	70-130	0.9	30
2-Hexanone (MBK)	12.7	QM9	µg/kg		20.0		64	70-130	18	30
Isopropylbenzene	19.2		µg/kg		20.0		96	70-130	0	30
4-Isopropyltoluene	19.7		µg/kg		20.0		98	70-130	2	30
Methyl tert-butyl ether	16.5		µg/kg		20.0		83	70-130	2	30
4-Methyl-2-pentanone (MIBK)	14.5		µg/kg		20.0		73	70-130	7	30
Methylene chloride	18.5		µg/kg		20.0		93	70-130	0.3	30
Naphthalene	16.8		µg/kg		20.0		84	70-130	2	30
n-Propylbenzene	19.3		µg/kg		20.0		96	70-130	0.2	30
Styrene	17.9		µg/kg		20.0		90	70-130	7	30
1,1,1,2-Tetrachloroethane	19.5		µg/kg		20.0		97	70-130	3	30
1,1,2,2-Tetrachloroethane	17.6		µg/kg		20.0		88	70-130	0.2	30
Tetrachloroethene	20.6		µg/kg		20.0		103	70-130	2	30
Toluene	19.3		µg/kg		20.0		97	70-130	3	30
1,2,3-Trichlorobenzene	20.9		µg/kg		20.0		105	70-130	2	30
1,2,4-Trichlorobenzene	19.9		µg/kg		20.0		100	70-130	1	30
1,3,5-Trichlorobenzene	21.0		µg/kg		20.0		105	70-130	2	30
1,1,1-Trichloroethane	21.0		µg/kg		20.0		105	70-130	1	30
1,1,2-Trichloroethane	19.2		µg/kg		20.0		96	70-130	0.8	30
Trichloroethene	20.6		µg/kg		20.0		103	70-130	0.5	30
Trichlorofluoromethane (Freon 11)	25.6		µg/kg		20.0		128	70-130	0.7	30
1,2,3-Trichloropropane	18.6		µg/kg		20.0		93	70-130	4	30
1,2,4-Trimethylbenzene	20.0		µg/kg		20.0		100	70-130	0.9	30
1,3,5-Trimethylbenzene	19.6		µg/kg		20.0		98	70-130	0.2	30
Vinyl chloride	21.0		µg/kg		20.0		105	70-130	10	30
m,p-Xylene	18.0		µg/kg		20.0		90	70-130	0.7	30
o-Xylene	18.6		µg/kg		20.0		93	70-130	0.9	30
Tetrahydrofuran	12.6	QM9	µg/kg		20.0		63	70-130	17	30
Ethyl ether	19.2		µg/kg		20.0		96	70-130	0	30
Tert-amyl methyl ether	23.6		µg/kg		20.0		118	70-130	2	30
Ethyl tert-butyl ether	16.8		µg/kg		20.0		84	70-130	0.5	30
Di-isopropyl ether	17.8		µg/kg		20.0		89	70-130	0.1	30
Tert-Butanol / butyl alcohol	164		µg/kg		200		82	70-130	4	30
1,4-Dioxane	141		µg/kg		200		70	70-130	7	30
trans-1,4-Dichloro-2-butene	13.2	QC2	µg/kg		20.0		66	70-130	0.2	30
Ethanol	345		µg/kg		400		86	70-130	7	30
Surrogate: 4-Bromofluorobenzene	49.8		µg/kg		50.0		100	70-130		
Surrogate: Toluene-d8	51.3		µg/kg		50.0		103	70-130		
Surrogate: 1,2-Dichloroethane-d4	56.8		µg/kg		50.0		114	70-130		
Surrogate: Dibromofluoromethane	56.1		µg/kg		50.0		112	70-130		
Batch 1719431 - SW846 5035A Soil (high level)										
Blank (1719431-BLK1)					Prepared & Analyzed: 17-Nov-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 50.0	U, D	µg/kg wet	50.0						
Acetone	< 500	U, D	µg/kg wet	500						
Acrylonitrile	< 50.0	U, D	µg/kg wet	50.0						
Benzene	< 50.0	U, D	µg/kg wet	50.0						
Bromobenzene	< 50.0	U, D	µg/kg wet	50.0						
Bromochloromethane	< 50.0	U, D	µg/kg wet	50.0						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719431 - SW846 5035A Soil (high level)										
Blank (1719431-BLK1)					<u>Prepared & Analyzed: 17-Nov-17</u>					
Bromodichloromethane	< 50.0	U, D	µg/kg wet	50.0						
Bromoform	< 50.0	U, D	µg/kg wet	50.0						
Bromomethane	< 100	U, D	µg/kg wet	100						
2-Butanone (MEK)	< 100	U, D	µg/kg wet	100						
n-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
sec-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
tert-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Carbon disulfide	< 100	U, D	µg/kg wet	100						
Carbon tetrachloride	< 50.0	U, D	µg/kg wet	50.0						
Chlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
Chloroethane	< 100	U, D	µg/kg wet	100						
Chloroform	< 50.0	U, D	µg/kg wet	50.0						
Chloromethane	< 100	U, D	µg/kg wet	100						
2-Chlorotoluene	< 50.0	U, D	µg/kg wet	50.0						
4-Chlorotoluene	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dibromo-3-chloropropane	< 100	U, D	µg/kg wet	100						
Dibromochloromethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dibromoethane (EDB)	< 50.0	U, D	µg/kg wet	50.0						
Dibromomethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,4-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
Dichlorodifluoromethane (Freon12)	< 100	U, D	µg/kg wet	100						
1,1-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
cis-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
trans-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,3-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
2,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,1-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
cis-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
trans-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
Ethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Hexachlorobutadiene	< 50.0	U, D	µg/kg wet	50.0						
2-Hexanone (MBK)	< 100	U, D	µg/kg wet	100						
Isopropylbenzene	< 50.0	U, D	µg/kg wet	50.0						
4-Isopropyltoluene	< 50.0	U, D	µg/kg wet	50.0						
Methyl tert-butyl ether	< 50.0	U, D	µg/kg wet	50.0						
4-Methyl-2-pentanone (MIBK)	< 100	U, D	µg/kg wet	100						
Methylene chloride	< 100	U, D	µg/kg wet	100						
Naphthalene	< 50.0	U, D	µg/kg wet	50.0						
n-Propylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Styrene	< 50.0	U, D	µg/kg wet	50.0						
1,1,1,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1,2,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0						
Tetrachloroethene	< 50.0	U, D	µg/kg wet	50.0						
Toluene	< 50.0	U, D	µg/kg wet	50.0						
1,2,3-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8260C</u>										
Batch 1719431 - SW846 5035A Soil (high level)										
<u>Blank (1719431-BLK1)</u>					<u>Prepared & Analyzed: 17-Nov-17</u>					
1,2,4-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3,5-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,1,1-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1,2-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0						
Trichloroethene	< 50.0	U, D	µg/kg wet	50.0						
Trichlorofluoromethane (Freon 11)	< 50.0	U, D	µg/kg wet	50.0						
1,2,3-Trichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,2,4-Trimethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3,5-Trimethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Vinyl chloride	< 50.0	U, D	µg/kg wet	50.0						
m,p-Xylene	< 100	U, D	µg/kg wet	100						
o-Xylene	< 50.0	U, D	µg/kg wet	50.0						
Tetrahydrofuran	< 100	U, D	µg/kg wet	100						
Ethyl ether	< 50.0	U, D	µg/kg wet	50.0						
Tert-amyl methyl ether	< 50.0	U, D	µg/kg wet	50.0						
Ethyl tert-butyl ether	< 50.0	U, D	µg/kg wet	50.0						
Di-isopropyl ether	< 50.0	U, D	µg/kg wet	50.0						
Tert-Butanol / butyl alcohol	< 500	U, D	µg/kg wet	500						
1,4-Dioxane	< 1000	U, D	µg/kg wet	1000						
trans-1,4-Dichloro-2-butene	< 250	U, D	µg/kg wet	250						
Ethanol	< 10000	U, D	µg/kg wet	10000						
<i>Surrogate: 4-Bromofluorobenzene</i>	47.4		µg/kg		50.0		95	70-130		
<i>Surrogate: Toluene-d8</i>	50.0		µg/kg		50.0		100	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	52.0		µg/kg		50.0		104	70-130		
<i>Surrogate: Dibromofluoromethane</i>	51.1		µg/kg		50.0		102	70-130		
<u>LCS (1719431-BS1)</u>					<u>Prepared & Analyzed: 17-Nov-17</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	21.4	D	µg/kg		20.0		107	70-130		
Acetone	19.6	D	µg/kg		20.0		98	70-130		
Acrylonitrile	25.2	D	µg/kg		20.0		126	70-130		
Benzene	22.0	D	µg/kg		20.0		110	70-130		
Bromobenzene	22.6	D	µg/kg		20.0		113	70-130		
Bromochloromethane	23.2	D	µg/kg		20.0		116	70-130		
Bromodichloromethane	21.4	D	µg/kg		20.0		107	70-130		
Bromoform	22.1	D	µg/kg		20.0		111	70-130		
Bromomethane	18.0	D	µg/kg		20.0		90	70-130		
2-Butanone (MEK)	21.2	D	µg/kg		20.0		106	70-130		
n-Butylbenzene	20.5	D	µg/kg		20.0		102	70-130		
sec-Butylbenzene	21.0	D	µg/kg		20.0		105	70-130		
tert-Butylbenzene	20.9	D	µg/kg		20.0		104	70-130		
Carbon disulfide	23.0	D	µg/kg		20.0		115	70-130		
Carbon tetrachloride	22.5	D	µg/kg		20.0		112	70-130		
Chlorobenzene	21.5	D	µg/kg		20.0		108	70-130		
Chloroethane	19.7	D	µg/kg		20.0		98	70-130		
Chloroform	20.6	D	µg/kg		20.0		103	70-130		
Chloromethane	19.8	D	µg/kg		20.0		99	70-130		
2-Chlorotoluene	22.7	D	µg/kg		20.0		113	70-130		
4-Chlorotoluene	22.5	D	µg/kg		20.0		113	70-130		
1,2-Dibromo-3-chloropropane	21.6	D	µg/kg		20.0		108	70-130		
Dibromochloromethane	21.7	D	µg/kg		20.0		109	70-130		
1,2-Dibromoethane (EDB)	22.7	D	µg/kg		20.0		113	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719431 - SW846 5035A Soil (high level)										
LCS (1719431-BS1)	Prepared & Analyzed: 17-Nov-17									
Dibromomethane	21.3	D	µg/kg		20.0		107	70-130		
1,2-Dichlorobenzene	22.0	D	µg/kg		20.0		110	70-130		
1,3-Dichlorobenzene	22.2	D	µg/kg		20.0		111	70-130		
1,4-Dichlorobenzene	20.8	D	µg/kg		20.0		104	70-130		
Dichlorodifluoromethane (Freon12)	17.6	D	µg/kg		20.0		88	70-130		
1,1-Dichloroethane	21.0	D	µg/kg		20.0		105	70-130		
1,2-Dichloroethane	20.6	D	µg/kg		20.0		103	70-130		
1,1-Dichloroethene	21.7	D	µg/kg		20.0		109	70-130		
cis-1,2-Dichloroethene	22.5	D	µg/kg		20.0		113	70-130		
trans-1,2-Dichloroethene	21.7	D	µg/kg		20.0		108	70-130		
1,2-Dichloropropane	21.5	D	µg/kg		20.0		108	70-130		
1,3-Dichloropropane	21.9	D	µg/kg		20.0		110	70-130		
2,2-Dichloropropane	25.7	D	µg/kg		20.0		128	70-130		
1,1-Dichloropropene	20.6	D	µg/kg		20.0		103	70-130		
cis-1,3-Dichloropropene	21.7	D	µg/kg		20.0		108	70-130		
trans-1,3-Dichloropropene	22.2	D	µg/kg		20.0		111	70-130		
Ethylbenzene	20.8	D	µg/kg		20.0		104	70-130		
Hexachlorobutadiene	22.6	D	µg/kg		20.0		113	70-130		
2-Hexanone (MBK)	22.0	D	µg/kg		20.0		110	70-130		
Isopropylbenzene	20.8	D	µg/kg		20.0		104	70-130		
4-Isopropyltoluene	20.9	D	µg/kg		20.0		105	70-130		
Methyl tert-butyl ether	21.7	D	µg/kg		20.0		108	70-130		
4-Methyl-2-pentanone (MIBK)	22.3	D	µg/kg		20.0		112	70-130		
Methylene chloride	21.4	D	µg/kg		20.0		107	70-130		
Naphthalene	21.7	D	µg/kg		20.0		108	70-130		
n-Propylbenzene	21.0	D	µg/kg		20.0		105	70-130		
Styrene	21.3	D	µg/kg		20.0		106	70-130		
1,1,1,2-Tetrachloroethane	22.8	D	µg/kg		20.0		114	70-130		
1,1,2,2-Tetrachloroethane	22.7	D	µg/kg		20.0		114	70-130		
Tetrachloroethene	19.3	D	µg/kg		20.0		97	70-130		
Toluene	21.6	D	µg/kg		20.0		108	70-130		
1,2,3-Trichlorobenzene	21.8	D	µg/kg		20.0		109	70-130		
1,2,4-Trichlorobenzene	21.2	D	µg/kg		20.0		106	70-130		
1,3,5-Trichlorobenzene	21.0	D	µg/kg		20.0		105	70-130		
1,1,1-Trichloroethane	21.4	D	µg/kg		20.0		107	70-130		
1,1,2-Trichloroethane	22.5	D	µg/kg		20.0		113	70-130		
Trichloroethene	21.6	D	µg/kg		20.0		108	70-130		
Trichlorofluoromethane (Freon 11)	20.9	D	µg/kg		20.0		104	70-130		
1,2,3-Trichloropropane	22.6	D	µg/kg		20.0		113	70-130		
1,2,4-Trimethylbenzene	20.8	D	µg/kg		20.0		104	70-130		
1,3,5-Trimethylbenzene	20.8	D	µg/kg		20.0		104	70-130		
Vinyl chloride	18.5	D	µg/kg		20.0		93	70-130		
m,p-Xylene	21.1	D	µg/kg		20.0		106	70-130		
o-Xylene	21.1	D	µg/kg		20.0		105	70-130		
Tetrahydrofuran	19.7	D	µg/kg		20.0		98	70-130		
Ethyl ether	22.5	D	µg/kg		20.0		113	70-130		
Tert-amyl methyl ether	21.2	D	µg/kg		20.0		106	70-130		
Ethyl tert-butyl ether	21.8	D	µg/kg		20.0		109	70-130		
Di-isopropyl ether	21.2	D	µg/kg		20.0		106	70-130		
Tert-Butanol / butyl alcohol	229	D	µg/kg		200		114	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719431 - SW846 5035A Soil (high level)										
LCS (1719431-BS1)					Prepared & Analyzed: 17-Nov-17					
1,4-Dioxane	217	D	µg/kg		200		108	70-130		
trans-1,4-Dichloro-2-butene	22.7	D	µg/kg		20.0		114	70-130		
Ethanol	400	D	µg/kg		400		100	70-130		
Surrogate: 4-Bromofluorobenzene	51.6		µg/kg		50.0		103	70-130		
Surrogate: Toluene-d8	50.0		µg/kg		50.0		100	70-130		
Surrogate: 1,2-Dichloroethane-d4	47.8		µg/kg		50.0		96	70-130		
Surrogate: Dibromofluoromethane	49.4		µg/kg		50.0		99	70-130		
LCS Dup (1719431-BS1)					Prepared & Analyzed: 17-Nov-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	21.4	D	µg/kg		20.0		107	70-130	0.3	30
Acetone	20.6	D	µg/kg		20.0		103	70-130	5	30
Acrylonitrile	25.9	D	µg/kg		20.0		130	70-130	3	30
Benzene	22.8	D	µg/kg		20.0		114	70-130	3	30
Bromobenzene	22.5	D	µg/kg		20.0		113	70-130	0.3	30
Bromochloromethane	23.2	D	µg/kg		20.0		116	70-130	0.4	30
Bromodichloromethane	21.8	D	µg/kg		20.0		109	70-130	2	30
Bromoform	21.2	D	µg/kg		20.0		106	70-130	4	30
Bromomethane	17.1	D	µg/kg		20.0		85	70-130	6	30
2-Butanone (MEK)	21.9	D	µg/kg		20.0		110	70-130	3	30
n-Butylbenzene	21.1	D	µg/kg		20.0		105	70-130	3	30
sec-Butylbenzene	20.9	D	µg/kg		20.0		104	70-130	0.8	30
tert-Butylbenzene	20.8	D	µg/kg		20.0		104	70-130	0.4	30
Carbon disulfide	24.0	D	µg/kg		20.0		120	70-130	4	30
Carbon tetrachloride	21.9	D	µg/kg		20.0		109	70-130	3	30
Chlorobenzene	21.5	D	µg/kg		20.0		107	70-130	0.2	30
Chloroethane	20.4	D	µg/kg		20.0		102	70-130	4	30
Chloroform	21.2	D	µg/kg		20.0		106	70-130	3	30
Chloromethane	21.4	D	µg/kg		20.0		107	70-130	8	30
2-Chlorotoluene	22.9	D	µg/kg		20.0		115	70-130	1	30
4-Chlorotoluene	22.7	D	µg/kg		20.0		114	70-130	0.8	30
1,2-Dibromo-3-chloropropane	22.0	D	µg/kg		20.0		110	70-130	2	30
Dibromochloromethane	21.8	D	µg/kg		20.0		109	70-130	0.6	30
1,2-Dibromoethane (EDB)	22.6	D	µg/kg		20.0		113	70-130	0.3	30
Dibromomethane	21.5	D	µg/kg		20.0		107	70-130	0.7	30
1,2-Dichlorobenzene	22.1	D	µg/kg		20.0		110	70-130	0.5	30
1,3-Dichlorobenzene	22.4	D	µg/kg		20.0		112	70-130	0.9	30
1,4-Dichlorobenzene	21.2	D	µg/kg		20.0		106	70-130	2	30
Dichlorodifluoromethane (Freon12)	17.8	D	µg/kg		20.0		89	70-130	2	30
1,1-Dichloroethane	21.7	D	µg/kg		20.0		109	70-130	3	30
1,2-Dichloroethane	21.7	D	µg/kg		20.0		108	70-130	5	30
1,1-Dichloroethene	21.6	D	µg/kg		20.0		108	70-130	0.7	30
cis-1,2-Dichloroethene	22.7	D	µg/kg		20.0		114	70-130	0.9	30
trans-1,2-Dichloroethene	21.9	D	µg/kg		20.0		110	70-130	1	30
1,2-Dichloropropane	22.3	D	µg/kg		20.0		111	70-130	3	30
1,3-Dichloropropane	22.3	D	µg/kg		20.0		112	70-130	2	30
2,2-Dichloropropane	25.6	D	µg/kg		20.0		128	70-130	0.4	30
1,1-Dichloropropene	20.5	D	µg/kg		20.0		102	70-130	0.7	30
cis-1,3-Dichloropropene	21.9	D	µg/kg		20.0		110	70-130	1	30
trans-1,3-Dichloropropene	22.3	D	µg/kg		20.0		112	70-130	0.6	30
Ethylbenzene	20.8	D	µg/kg		20.0		104	70-130	0.1	30
Hexachlorobutadiene	22.5	D	µg/kg		20.0		112	70-130	0.4	30

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719431 - SW846 5035A Soil (high level)										
LCS Dup (1719431-BSD1)					Prepared & Analyzed: 17-Nov-17					
2-Hexanone (MBK)	21.7	D	µg/kg		20.0		108	70-130	2	30
Isopropylbenzene	20.6	D	µg/kg		20.0		103	70-130	1	30
4-Isopropyltoluene	21.0	D	µg/kg		20.0		105	70-130	0.2	30
Methyl tert-butyl ether	21.8	D	µg/kg		20.0		109	70-130	0.5	30
4-Methyl-2-pentanone (MIBK)	22.0	D	µg/kg		20.0		110	70-130	2	30
Methylene chloride	23.5	D	µg/kg		20.0		118	70-130	10	30
Naphthalene	21.2	D	µg/kg		20.0		106	70-130	2	30
n-Propylbenzene	21.0	D	µg/kg		20.0		105	70-130	0.2	30
Styrene	21.2	D	µg/kg		20.0		106	70-130	0.3	30
1,1,1,2-Tetrachloroethane	22.7	D	µg/kg		20.0		114	70-130	0.1	30
1,1,2,2-Tetrachloroethane	23.0	D	µg/kg		20.0		115	70-130	1	30
Tetrachloroethene	18.7	D	µg/kg		20.0		93	70-130	3	30
Toluene	21.8	D	µg/kg		20.0		109	70-130	0.6	30
1,2,3-Trichlorobenzene	21.6	D	µg/kg		20.0		108	70-130	1	30
1,2,4-Trichlorobenzene	21.2	D	µg/kg		20.0		106	70-130	0.05	30
1,3,5-Trichlorobenzene	21.1	D	µg/kg		20.0		106	70-130	0.6	30
1,1,1-Trichloroethane	21.3	D	µg/kg		20.0		107	70-130	0.5	30
1,1,2-Trichloroethane	22.8	D	µg/kg		20.0		114	70-130	1	30
Trichloroethene	21.8	D	µg/kg		20.0		109	70-130	1	30
Trichlorofluoromethane (Freon 11)	20.4	D	µg/kg		20.0		102	70-130	2	30
1,2,3-Trichloropropane	22.4	D	µg/kg		20.0		112	70-130	0.6	30
1,2,4-Trimethylbenzene	21.0	D	µg/kg		20.0		105	70-130	1	30
1,3,5-Trimethylbenzene	20.9	D	µg/kg		20.0		104	70-130	0.3	30
Vinyl chloride	19.0	D	µg/kg		20.0		95	70-130	2	30
m,p-Xylene	20.9	D	µg/kg		20.0		105	70-130	1	30
o-Xylene	21.0	D	µg/kg		20.0		105	70-130	0.4	30
Tetrahydrofuran	19.8	D	µg/kg		20.0		99	70-130	0.5	30
Ethyl ether	22.4	D	µg/kg		20.0		112	70-130	0.4	30
Tert-amyl methyl ether	21.6	D	µg/kg		20.0		108	70-130	2	30
Ethyl tert-butyl ether	21.6	D	µg/kg		20.0		108	70-130	0.9	30
Di-isopropyl ether	22.0	D	µg/kg		20.0		110	70-130	4	30
Tert-Butanol / butyl alcohol	233	D	µg/kg		200		116	70-130	2	30
1,4-Dioxane	220	D	µg/kg		200		110	70-130	1	30
trans-1,4-Dichloro-2-butene	22.9	D	µg/kg		20.0		114	70-130	0.6	30
Ethanol	396	D	µg/kg		400		99	70-130	0.8	30
Surrogate: 4-Bromofluorobenzene	51.4		µg/kg		50.0		103	70-130		
Surrogate: Toluene-d8	50.0		µg/kg		50.0		100	70-130		
Surrogate: 1,2-Dichloroethane-d4	48.6		µg/kg		50.0		97	70-130		
Surrogate: Dibromofluoromethane	49.6		µg/kg		50.0		99	70-130		
Batch 1719513 - SW846 5035A Soil (high level)										
Blank (1719513-BLK1)					Prepared & Analyzed: 20-Nov-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 50.0	U, D	µg/kg wet	50.0						
Acetone	< 500	U, D	µg/kg wet	500						
Acrylonitrile	< 50.0	U, D	µg/kg wet	50.0						
Benzene	< 50.0	U, D	µg/kg wet	50.0						
Bromobenzene	< 50.0	U, D	µg/kg wet	50.0						
Bromochloromethane	< 50.0	U, D	µg/kg wet	50.0						
Bromodichloromethane	< 50.0	U, D	µg/kg wet	50.0						
Bromoform	< 50.0	U, D	µg/kg wet	50.0						
Bromomethane	< 100	U, D	µg/kg wet	100						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8260C</u>										
Batch 1719513 - SW846 5035A Soil (high level)										
<u>Blank (1719513-BLK1)</u>	<u>Prepared & Analyzed: 20-Nov-17</u>									
2-Butanone (MEK)	< 100	U, D	µg/kg wet	100						
n-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
sec-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
tert-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Carbon disulfide	< 100	U, D	µg/kg wet	100						
Carbon tetrachloride	< 50.0	U, D	µg/kg wet	50.0						
Chlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
Chloroethane	< 100	U, D	µg/kg wet	100						
Chloroform	< 50.0	U, D	µg/kg wet	50.0						
Chloromethane	< 100	U, D	µg/kg wet	100						
2-Chlorotoluene	< 50.0	U, D	µg/kg wet	50.0						
4-Chlorotoluene	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dibromo-3-chloropropane	< 100	U, D	µg/kg wet	100						
Dibromochloromethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dibromoethane (EDB)	< 50.0	U, D	µg/kg wet	50.0						
Dibromomethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,4-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
Dichlorodifluoromethane (Freon12)	< 100	U, D	µg/kg wet	100						
1,1-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
cis-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
trans-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,3-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
2,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,1-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
cis-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
trans-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
Ethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Hexachlorobutadiene	< 50.0	U, D	µg/kg wet	50.0						
2-Hexanone (MBK)	< 100	U, D	µg/kg wet	100						
Isopropylbenzene	< 50.0	U, D	µg/kg wet	50.0						
4-Isopropyltoluene	< 50.0	U, D	µg/kg wet	50.0						
Methyl tert-butyl ether	< 50.0	U, D	µg/kg wet	50.0						
4-Methyl-2-pentanone (MIBK)	< 100	U, D	µg/kg wet	100						
Methylene chloride	< 100	U, D	µg/kg wet	100						
Naphthalene	< 50.0	U, D	µg/kg wet	50.0						
n-Propylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Styrene	< 50.0	U, D	µg/kg wet	50.0						
1,1,1,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1,2,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0						
Tetrachloroethene	< 50.0	U, D	µg/kg wet	50.0						
Toluene	< 50.0	U, D	µg/kg wet	50.0						
1,2,3-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,2,4-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3,5-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,1,1-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719513 - SW846 5035A Soil (high level)										
Blank (1719513-BLK1)					<u>Prepared & Analyzed: 20-Nov-17</u>					
1,1,2-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0						
Trichloroethene	< 50.0	U, D	µg/kg wet	50.0						
Trichlorofluoromethane (Freon 11)	< 50.0	U, D	µg/kg wet	50.0						
1,2,3-Trichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,2,4-Trimethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3,5-Trimethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Vinyl chloride	< 50.0	U, D	µg/kg wet	50.0						
m,p-Xylene	< 100	U, D	µg/kg wet	100						
o-Xylene	< 50.0	U, D	µg/kg wet	50.0						
Tetrahydrofuran	< 100	U, D	µg/kg wet	100						
Ethyl ether	< 50.0	U, D	µg/kg wet	50.0						
Tert-amyl methyl ether	< 50.0	U, D	µg/kg wet	50.0						
Ethyl tert-butyl ether	< 50.0	U, D	µg/kg wet	50.0						
Di-isopropyl ether	< 50.0	U, D	µg/kg wet	50.0						
Tert-Butanol / butyl alcohol	< 500	U, D	µg/kg wet	500						
1,4-Dioxane	< 1000	U, D	µg/kg wet	1000						
trans-1,4-Dichloro-2-butene	< 250	U, D	µg/kg wet	250						
Ethanol	< 10000	U, D	µg/kg wet	10000						
<i>Surrogate: 4-Bromofluorobenzene</i>	46.5		µg/kg		50.0		93	70-130		
<i>Surrogate: Toluene-d8</i>	50.3		µg/kg		50.0		101	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	55.0		µg/kg		50.0		110	70-130		
<i>Surrogate: Dibromofluoromethane</i>	53.5		µg/kg		50.0		107	70-130		
LCS (1719513-BS1)					<u>Prepared & Analyzed: 20-Nov-17</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	19.0	D	µg/kg		20.0		95	70-130		
Acetone	22.8	D	µg/kg		20.0		114	70-130		
Acrylonitrile	25.1	D	µg/kg		20.0		125	70-130		
Benzene	23.2	D	µg/kg		20.0		116	70-130		
Bromobenzene	22.6	D	µg/kg		20.0		113	70-130		
Bromochloromethane	23.1	D	µg/kg		20.0		115	70-130		
Bromodichloromethane	22.4	D	µg/kg		20.0		112	70-130		
Bromoform	22.2	D	µg/kg		20.0		111	70-130		
Bromomethane	17.0	D	µg/kg		20.0		85	70-130		
2-Butanone (MEK)	21.0	D	µg/kg		20.0		105	70-130		
n-Butylbenzene	21.2	D	µg/kg		20.0		106	70-130		
sec-Butylbenzene	21.8	D	µg/kg		20.0		109	70-130		
tert-Butylbenzene	21.7	D	µg/kg		20.0		108	70-130		
Carbon disulfide	17.5	D	µg/kg		20.0		88	70-130		
Carbon tetrachloride	24.4	D	µg/kg		20.0		122	70-130		
Chlorobenzene	22.2	D	µg/kg		20.0		111	70-130		
Chloroethane	22.1	D	µg/kg		20.0		110	70-130		
Chloroform	21.8	D	µg/kg		20.0		109	70-130		
Chloromethane	22.1	D	µg/kg		20.0		110	70-130		
2-Chlorotoluene	23.6	D	µg/kg		20.0		118	70-130		
4-Chlorotoluene	21.6	D	µg/kg		20.0		108	70-130		
1,2-Dibromo-3-chloropropane	22.7	D	µg/kg		20.0		113	70-130		
Dibromochloromethane	22.5	D	µg/kg		20.0		112	70-130		
1,2-Dibromoethane (EDB)	22.5	D	µg/kg		20.0		113	70-130		
Dibromomethane	21.7	D	µg/kg		20.0		108	70-130		
1,2-Dichlorobenzene	22.3	D	µg/kg		20.0		111	70-130		
1,3-Dichlorobenzene	22.9	D	µg/kg		20.0		114	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719513 - SW846 5035A Soil (high level)										
LCS (1719513-BS1)					Prepared & Analyzed: 20-Nov-17					
1,4-Dichlorobenzene	21.6	D	µg/kg		20.0		108	70-130		
Dichlorodifluoromethane (Freon12)	19.1	D	µg/kg		20.0		96	70-130		
1,1-Dichloroethane	22.6	D	µg/kg		20.0		113	70-130		
1,2-Dichloroethane	21.8	D	µg/kg		20.0		109	70-130		
1,1-Dichloroethene	25.8	D	µg/kg		20.0		129	70-130		
cis-1,2-Dichloroethene	23.3	D	µg/kg		20.0		116	70-130		
trans-1,2-Dichloroethene	22.5	D	µg/kg		20.0		112	70-130		
1,2-Dichloropropane	22.5	D	µg/kg		20.0		112	70-130		
1,3-Dichloropropane	22.2	D	µg/kg		20.0		111	70-130		
2,2-Dichloropropane	25.3	D	µg/kg		20.0		127	70-130		
1,1-Dichloropropene	21.2	D	µg/kg		20.0		106	70-130		
cis-1,3-Dichloropropene	21.4	D	µg/kg		20.0		107	70-130		
trans-1,3-Dichloropropene	21.6	D	µg/kg		20.0		108	70-130		
Ethylbenzene	21.5	D	µg/kg		20.0		107	70-130		
Hexachlorobutadiene	23.6	D	µg/kg		20.0		118	70-130		
2-Hexanone (MBK)	21.2	D	µg/kg		20.0		106	70-130		
Isopropylbenzene	21.4	D	µg/kg		20.0		107	70-130		
4-Isopropyltoluene	21.5	D	µg/kg		20.0		107	70-130		
Methyl tert-butyl ether	21.0	D	µg/kg		20.0		105	70-130		
4-Methyl-2-pentanone (MIBK)	21.5	D	µg/kg		20.0		107	70-130		
Methylene chloride	21.4	D	µg/kg		20.0		107	70-130		
Naphthalene	20.3	D	µg/kg		20.0		101	70-130		
n-Propylbenzene	21.8	D	µg/kg		20.0		109	70-130		
Styrene	21.4	D	µg/kg		20.0		107	70-130		
1,1,1,2-Tetrachloroethane	23.4	D	µg/kg		20.0		117	70-130		
1,1,2,2-Tetrachloroethane	23.1	D	µg/kg		20.0		115	70-130		
Tetrachloroethene	19.4	D	µg/kg		20.0		97	70-130		
Toluene	22.4	D	µg/kg		20.0		112	70-130		
1,2,3-Trichlorobenzene	21.5	D	µg/kg		20.0		107	70-130		
1,2,4-Trichlorobenzene	20.6	D	µg/kg		20.0		103	70-130		
1,3,5-Trichlorobenzene	20.6	D	µg/kg		20.0		103	70-130		
1,1,1-Trichloroethane	22.8	D	µg/kg		20.0		114	70-130		
1,1,2-Trichloroethane	22.7	D	µg/kg		20.0		114	70-130		
Trichloroethene	23.0	D	µg/kg		20.0		115	70-130		
Trichlorofluoromethane (Freon 11)	23.4	D	µg/kg		20.0		117	70-130		
1,2,3-Trichloropropane	23.0	D	µg/kg		20.0		115	70-130		
1,2,4-Trimethylbenzene	21.2	D	µg/kg		20.0		106	70-130		
1,3,5-Trimethylbenzene	21.4	D	µg/kg		20.0		107	70-130		
Vinyl chloride	21.2	D	µg/kg		20.0		106	70-130		
m,p-Xylene	21.6	D	µg/kg		20.0		108	70-130		
o-Xylene	21.8	D	µg/kg		20.0		109	70-130		
Tetrahydrofuran	18.3	D	µg/kg		20.0		91	70-130		
Ethyl ether	25.6	D	µg/kg		20.0		128	70-130		
Tert-amyl methyl ether	21.4	D	µg/kg		20.0		107	70-130		
Ethyl tert-butyl ether	20.4	D	µg/kg		20.0		102	70-130		
Di-isopropyl ether	21.3	D	µg/kg		20.0		106	70-130		
Tert-Butanol / butyl alcohol	227	D	µg/kg		200		114	70-130		
1,4-Dioxane	191	D	µg/kg		200		95	70-130		
trans-1,4-Dichloro-2-butene	20.4	D	µg/kg		20.0		102	70-130		
Ethanol	394	D	µg/kg		400		99	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719513 - SW846 5035A Soil (high level)										
LCS (1719513-BS1)					Prepared & Analyzed: 20-Nov-17					
Surrogate: 4-Bromofluorobenzene	51.8		µg/kg		50.0		104	70-130		
Surrogate: Toluene-d8	49.8		µg/kg		50.0		100	70-130		
Surrogate: 1,2-Dichloroethane-d4	48.5		µg/kg		50.0		97	70-130		
Surrogate: Dibromofluoromethane	49.7		µg/kg		50.0		99	70-130		
LCS Dup (1719513-BSD1)					Prepared & Analyzed: 20-Nov-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	22.3	D	µg/kg		20.0		112	70-130	16	30
Acetone	16.5	QR2, D	µg/kg		20.0		82	70-130	32	30
Acrylonitrile	22.5	D	µg/kg		20.0		112	70-130	11	30
Benzene	23.4	D	µg/kg		20.0		117	70-130	0.4	30
Bromobenzene	22.7	D	µg/kg		20.0		114	70-130	0.5	30
Bromochloromethane	23.6	D	µg/kg		20.0		118	70-130	2	30
Bromodichloromethane	22.7	D	µg/kg		20.0		114	70-130	1	30
Bromoform	23.0	D	µg/kg		20.0		115	70-130	3	30
Bromomethane	17.6	D	µg/kg		20.0		88	70-130	4	30
2-Butanone (MEK)	20.0	D	µg/kg		20.0		100	70-130	5	30
n-Butylbenzene	20.1	D	µg/kg		20.0		101	70-130	5	30
sec-Butylbenzene	21.3	D	µg/kg		20.0		106	70-130	3	30
tert-Butylbenzene	20.9	D	µg/kg		20.0		105	70-130	4	30
Carbon disulfide	25.1	QR2, D	µg/kg		20.0		126	70-130	36	30
Carbon tetrachloride	23.7	D	µg/kg		20.0		118	70-130	3	30
Chlorobenzene	22.1	D	µg/kg		20.0		110	70-130	0.6	30
Chloroethane	21.6	D	µg/kg		20.0		108	70-130	2	30
Chloroform	22.1	D	µg/kg		20.0		110	70-130	1	30
Chloromethane	23.0	D	µg/kg		20.0		115	70-130	4	30
2-Chlorotoluene	23.0	D	µg/kg		20.0		115	70-130	3	30
4-Chlorotoluene	21.5	D	µg/kg		20.0		108	70-130	0.5	30
1,2-Dibromo-3-chloropropane	23.5	D	µg/kg		20.0		117	70-130	4	30
Dibromochloromethane	23.2	D	µg/kg		20.0		116	70-130	3	30
1,2-Dibromoethane (EDB)	22.9	D	µg/kg		20.0		114	70-130	2	30
Dibromomethane	21.8	D	µg/kg		20.0		109	70-130	0.6	30
1,2-Dichlorobenzene	21.8	D	µg/kg		20.0		109	70-130	2	30
1,3-Dichlorobenzene	22.8	D	µg/kg		20.0		114	70-130	0.4	30
1,4-Dichlorobenzene	21.2	D	µg/kg		20.0		106	70-130	2	30
Dichlorodifluoromethane (Freon12)	18.8	D	µg/kg		20.0		94	70-130	2	30
1,1-Dichloroethane	22.7	D	µg/kg		20.0		113	70-130	0.04	30
1,2-Dichloroethane	22.0	D	µg/kg		20.0		110	70-130	0.9	30
1,1-Dichloroethene	16.3	QR2, D	µg/kg		20.0		82	70-130	45	30
cis-1,2-Dichloroethene	23.5	D	µg/kg		20.0		118	70-130	0.9	30
trans-1,2-Dichloroethene	21.6	D	µg/kg		20.0		108	70-130	4	30
1,2-Dichloropropane	22.5	D	µg/kg		20.0		113	70-130	0.4	30
1,3-Dichloropropane	23.0	D	µg/kg		20.0		115	70-130	3	30
2,2-Dichloropropane	25.2	D	µg/kg		20.0		126	70-130	0.4	30
1,1-Dichloropropene	19.9	D	µg/kg		20.0		100	70-130	6	30
cis-1,3-Dichloropropene	21.6	D	µg/kg		20.0		108	70-130	0.8	30
trans-1,3-Dichloropropene	21.6	D	µg/kg		20.0		108	70-130	0.4	30
Ethylbenzene	21.1	D	µg/kg		20.0		105	70-130	2	30
Hexachlorobutadiene	22.7	D	µg/kg		20.0		113	70-130	4	30
2-Hexanone (MBK)	21.8	D	µg/kg		20.0		109	70-130	3	30
Isopropylbenzene	21.1	D	µg/kg		20.0		105	70-130	2	30
4-Isopropyltoluene	20.5	D	µg/kg		20.0		103	70-130	5	30

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719513 - SW846 5035A Soil (high level)										
<u>LCS Dup (1719513-BSD1)</u>					<u>Prepared & Analyzed: 20-Nov-17</u>					
Methyl tert-butyl ether	20.7	D	µg/kg		20.0		104	70-130	1	30
4-Methyl-2-pentanone (MIBK)	21.4	D	µg/kg		20.0		107	70-130	0.6	30
Methylene chloride	23.9	D	µg/kg		20.0		120	70-130	11	30
Naphthalene	19.6	D	µg/kg		20.0		98	70-130	3	30
n-Propylbenzene	20.6	D	µg/kg		20.0		103	70-130	6	30
Styrene	21.1	D	µg/kg		20.0		106	70-130	1	30
1,1,1,2-Tetrachloroethane	23.5	D	µg/kg		20.0		118	70-130	0.4	30
1,1,2,2-Tetrachloroethane	23.6	D	µg/kg		20.0		118	70-130	2	30
Tetrachloroethene	18.8	D	µg/kg		20.0		94	70-130	3	30
Toluene	22.5	D	µg/kg		20.0		112	70-130	0.3	30
1,2,3-Trichlorobenzene	20.6	D	µg/kg		20.0		103	70-130	4	30
1,2,4-Trichlorobenzene	19.4	D	µg/kg		20.0		97	70-130	6	30
1,3,5-Trichlorobenzene	19.5	D	µg/kg		20.0		98	70-130	5	30
1,1,1-Trichloroethane	22.3	D	µg/kg		20.0		112	70-130	2	30
1,1,2-Trichloroethane	23.4	D	µg/kg		20.0		117	70-130	3	30
Trichloroethene	22.6	D	µg/kg		20.0		113	70-130	2	30
Trichlorofluoromethane (Freon 11)	17.4	D	µg/kg		20.0		87	70-130	29	30
1,2,3-Trichloropropane	23.0	D	µg/kg		20.0		115	70-130	0.09	30
1,2,4-Trimethylbenzene	21.0	D	µg/kg		20.0		105	70-130	1	30
1,3,5-Trimethylbenzene	21.0	D	µg/kg		20.0		105	70-130	2	30
Vinyl chloride	20.5	D	µg/kg		20.0		102	70-130	4	30
m,p-Xylene	21.1	D	µg/kg		20.0		106	70-130	2	30
o-Xylene	21.5	D	µg/kg		20.0		107	70-130	1	30
Tetrahydrofuran	18.6	D	µg/kg		20.0		93	70-130	2	30
Ethyl ether	16.5	QR2, D	µg/kg		20.0		82	70-130	44	30
Tert-amyl methyl ether	22.5	D	µg/kg		20.0		112	70-130	5	30
Ethyl tert-butyl ether	20.5	D	µg/kg		20.0		103	70-130	0.6	30
Di-isopropyl ether	21.2	D	µg/kg		20.0		106	70-130	0.2	30
Tert-Butanol / butyl alcohol	214	D	µg/kg		200		107	70-130	6	30
1,4-Dioxane	199	D	µg/kg		200		99	70-130	4	30
trans-1,4-Dichloro-2-butene	20.5	D	µg/kg		20.0		103	70-130	0.4	30
Ethanol	402	D	µg/kg		400		100	70-130	2	30
Surrogate: 4-Bromofluorobenzene	52.8		µg/kg		50.0		106	70-130		
Surrogate: Toluene-d8	50.4		µg/kg		50.0		101	70-130		
Surrogate: 1,2-Dichloroethane-d4	49.5		µg/kg		50.0		99	70-130		
Surrogate: Dibromofluoromethane	50.5		µg/kg		50.0		101	70-130		
Batch 1719678 - SW846 5035A Soil (high level)										
<u>Blank (1719678-BLK1)</u>					<u>Prepared & Analyzed: 22-Nov-17</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 50.0	U, D	µg/kg wet	50.0						
Acetone	< 500	U, D	µg/kg wet	500						
Acrylonitrile	< 50.0	U, D	µg/kg wet	50.0						
Benzene	< 50.0	U, D	µg/kg wet	50.0						
Bromobenzene	< 50.0	U, D	µg/kg wet	50.0						
Bromochloromethane	< 50.0	U, D	µg/kg wet	50.0						
Bromodichloromethane	< 50.0	U, D	µg/kg wet	50.0						
Bromoform	< 50.0	U, D	µg/kg wet	50.0						
Bromomethane	< 100	U, D	µg/kg wet	100						
2-Butanone (MEK)	< 100	U, D	µg/kg wet	100						
n-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
sec-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719678 - SW846 5035A Soil (high level)										
Blank (1719678-BLK1)					<u>Prepared & Analyzed: 22-Nov-17</u>					
tert-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Carbon disulfide	< 100	U, D	µg/kg wet	100						
Carbon tetrachloride	< 50.0	U, D	µg/kg wet	50.0						
Chlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
Chloroethane	< 100	U, D	µg/kg wet	100						
Chloroform	< 50.0	U, D	µg/kg wet	50.0						
Chloromethane	< 100	U, D	µg/kg wet	100						
2-Chlorotoluene	< 50.0	U, D	µg/kg wet	50.0						
4-Chlorotoluene	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dibromo-3-chloropropane	< 100	U, D	µg/kg wet	100						
Dibromochloromethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dibromoethane (EDB)	< 50.0	U, D	µg/kg wet	50.0						
Dibromomethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,4-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
Dichlorodifluoromethane (Freon12)	< 100	U, D	µg/kg wet	100						
1,1-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
cis-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
trans-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,3-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
2,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,1-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
cis-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
trans-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
Ethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Hexachlorobutadiene	< 50.0	U, D	µg/kg wet	50.0						
2-Hexanone (MBK)	< 100	U, D	µg/kg wet	100						
Isopropylbenzene	< 50.0	U, D	µg/kg wet	50.0						
4-Isopropyltoluene	< 50.0	U, D	µg/kg wet	50.0						
Methyl tert-butyl ether	< 50.0	U, D	µg/kg wet	50.0						
4-Methyl-2-pentanone (MIBK)	< 100	U, D	µg/kg wet	100						
Methylene chloride	< 100	U, D	µg/kg wet	100						
Naphthalene	< 50.0	U, D	µg/kg wet	50.0						
n-Propylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Styrene	< 50.0	U, D	µg/kg wet	50.0						
1,1,1,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1,2,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0						
Tetrachloroethene	< 50.0	U, D	µg/kg wet	50.0						
Toluene	< 50.0	U, D	µg/kg wet	50.0						
1,2,3-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,2,4-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3,5-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,1,1-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1,2-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0						
Trichloroethene	< 50.0	U, D	µg/kg wet	50.0						
Trichlorofluoromethane (Freon 11)	< 50.0	U, D	µg/kg wet	50.0						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719678 - SW846 5035A Soil (high level)										
Blank (1719678-BLK1)					<u>Prepared & Analyzed: 22-Nov-17</u>					
1,2,3-Trichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,2,4-Trimethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3,5-Trimethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Vinyl chloride	< 50.0	U, D	µg/kg wet	50.0						
m,p-Xylene	< 100	U, D	µg/kg wet	100						
o-Xylene	< 50.0	U, D	µg/kg wet	50.0						
Tetrahydrofuran	< 100	U, D	µg/kg wet	100						
Ethyl ether	< 50.0	U, D	µg/kg wet	50.0						
Tert-amyl methyl ether	< 50.0	U, D	µg/kg wet	50.0						
Ethyl tert-butyl ether	< 50.0	U, D	µg/kg wet	50.0						
Di-isopropyl ether	< 50.0	U, D	µg/kg wet	50.0						
Tert-Butanol / butyl alcohol	< 500	U, D	µg/kg wet	500						
1,4-Dioxane	< 1000	U, D	µg/kg wet	1000						
trans-1,4-Dichloro-2-butene	< 250	U, D	µg/kg wet	250						
Ethanol	< 10000	U, D	µg/kg wet	10000						
<i>Surrogate: 4-Bromofluorobenzene</i>	49.4		µg/kg		50.0		99	70-130		
<i>Surrogate: Toluene-d8</i>	48.7		µg/kg		50.0		97	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	47.0		µg/kg		50.0		94	70-130		
<i>Surrogate: Dibromofluoromethane</i>	48.4		µg/kg		50.0		97	70-130		
LCS (1719678-BS1)					<u>Prepared & Analyzed: 22-Nov-17</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	13.0	QM9, D	µg/kg		20.0		65	70-130		
Acetone	15.3	D	µg/kg		20.0		77	70-130		
Acrylonitrile	13.8	QM9, D	µg/kg		20.0		69	70-130		
Benzene	23.4	D	µg/kg		20.0		117	70-130		
Bromobenzene	25.2	D	µg/kg		20.0		126	70-130		
Bromochloromethane	25.2	D	µg/kg		20.0		126	70-130		
Bromodichloromethane	21.2	D	µg/kg		20.0		106	70-130		
Bromoform	23.1	D	µg/kg		20.0		115	70-130		
Bromomethane	19.4	D	µg/kg		20.0		97	70-130		
2-Butanone (MEK)	22.5	D	µg/kg		20.0		113	70-130		
n-Butylbenzene	21.5	D	µg/kg		20.0		108	70-130		
sec-Butylbenzene	22.6	D	µg/kg		20.0		113	70-130		
tert-Butylbenzene	23.3	D	µg/kg		20.0		116	70-130		
Carbon disulfide	21.9	D	µg/kg		20.0		109	70-130		
Carbon tetrachloride	23.6	D	µg/kg		20.0		118	70-130		
Chlorobenzene	23.4	D	µg/kg		20.0		117	70-130		
Chloroethane	17.5	D	µg/kg		20.0		88	70-130		
Chloroform	21.4	D	µg/kg		20.0		107	70-130		
Chloromethane	16.6	D	µg/kg		20.0		83	70-130		
2-Chlorotoluene	24.0	D	µg/kg		20.0		120	70-130		
4-Chlorotoluene	21.8	D	µg/kg		20.0		109	70-130		
1,2-Dibromo-3-chloropropane	21.3	D	µg/kg		20.0		107	70-130		
Dibromochloromethane	22.0	D	µg/kg		20.0		110	70-130		
1,2-Dibromoethane (EDB)	24.2	D	µg/kg		20.0		121	70-130		
Dibromomethane	21.9	D	µg/kg		20.0		109	70-130		
1,2-Dichlorobenzene	23.3	D	µg/kg		20.0		116	70-130		
1,3-Dichlorobenzene	23.7	D	µg/kg		20.0		118	70-130		
1,4-Dichlorobenzene	22.1	D	µg/kg		20.0		111	70-130		
Dichlorodifluoromethane (Freon12)	18.4	D	µg/kg		20.0		92	70-130		
1,1-Dichloroethane	21.6	D	µg/kg		20.0		108	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719678 - SW846 5035A Soil (high level)										
LCS (1719678-BS1)					Prepared & Analyzed: 22-Nov-17					
1,2-Dichloroethane	20.6	D	µg/kg		20.0		103	70-130		
1,1-Dichloroethene	15.2	D	µg/kg		20.0		76	70-130		
cis-1,2-Dichloroethene	24.5	D	µg/kg		20.0		122	70-130		
trans-1,2-Dichloroethene	24.8	D	µg/kg		20.0		124	70-130		
1,2-Dichloropropane	21.9	D	µg/kg		20.0		110	70-130		
1,3-Dichloropropane	21.7	D	µg/kg		20.0		109	70-130		
2,2-Dichloropropane	25.5	D	µg/kg		20.0		127	70-130		
1,1-Dichloropropene	22.8	D	µg/kg		20.0		114	70-130		
cis-1,3-Dichloropropene	23.0	D	µg/kg		20.0		115	70-130		
trans-1,3-Dichloropropene	23.4	D	µg/kg		20.0		117	70-130		
Ethylbenzene	23.0	D	µg/kg		20.0		115	70-130		
Hexachlorobutadiene	25.7	D	µg/kg		20.0		129	70-130		
2-Hexanone (MBK)	21.7	D	µg/kg		20.0		109	70-130		
Isopropylbenzene	22.6	D	µg/kg		20.0		113	70-130		
4-Isopropyltoluene	22.4	D	µg/kg		20.0		112	70-130		
Methyl tert-butyl ether	23.7	D	µg/kg		20.0		118	70-130		
4-Methyl-2-pentanone (MIBK)	22.1	D	µg/kg		20.0		110	70-130		
Methylene chloride	12.2	QM9, D	µg/kg		20.0		61	70-130		
Naphthalene	22.2	D	µg/kg		20.0		111	70-130		
n-Propylbenzene	22.5	D	µg/kg		20.0		112	70-130		
Styrene	23.5	D	µg/kg		20.0		117	70-130		
1,1,1,2-Tetrachloroethane	24.8	D	µg/kg		20.0		124	70-130		
1,1,2,2-Tetrachloroethane	22.3	D	µg/kg		20.0		112	70-130		
Tetrachloroethene	22.0	D	µg/kg		20.0		110	70-130		
Toluene	22.7	D	µg/kg		20.0		113	70-130		
1,2,3-Trichlorobenzene	22.9	D	µg/kg		20.0		114	70-130		
1,2,4-Trichlorobenzene	23.5	D	µg/kg		20.0		118	70-130		
1,3,5-Trichlorobenzene	23.2	D	µg/kg		20.0		116	70-130		
1,1,1-Trichloroethane	23.0	D	µg/kg		20.0		115	70-130		
1,1,2-Trichloroethane	22.8	D	µg/kg		20.0		114	70-130		
Trichloroethene	23.9	D	µg/kg		20.0		120	70-130		
Trichlorofluoromethane (Freon 11)	17.2	D	µg/kg		20.0		86	70-130		
1,2,3-Trichloropropane	22.4	D	µg/kg		20.0		112	70-130		
1,2,4-Trimethylbenzene	22.5	D	µg/kg		20.0		112	70-130		
1,3,5-Trimethylbenzene	22.7	D	µg/kg		20.0		113	70-130		
Vinyl chloride	17.2	D	µg/kg		20.0		86	70-130		
m,p-Xylene	23.8	D	µg/kg		20.0		119	70-130		
o-Xylene	22.6	D	µg/kg		20.0		113	70-130		
Tetrahydrofuran	19.7	D	µg/kg		20.0		99	70-130		
Ethyl ether	14.9	D	µg/kg		20.0		74	70-130		
Tert-amyl methyl ether	20.1	D	µg/kg		20.0		100	70-130		
Ethyl tert-butyl ether	23.4	D	µg/kg		20.0		117	70-130		
Di-isopropyl ether	21.8	D	µg/kg		20.0		109	70-130		
Tert-Butanol / butyl alcohol	189	D	µg/kg		200		95	70-130		
1,4-Dioxane	207	D	µg/kg		200		103	70-130		
trans-1,4-Dichloro-2-butene	24.4	D	µg/kg		20.0		122	70-130		
Ethanol	415	D	µg/kg		400		104	70-130		
Surrogate: 4-Bromofluorobenzene	51.6		µg/kg		50.0		103	70-130		
Surrogate: Toluene-d8	49.8		µg/kg		50.0		100	70-130		
Surrogate: 1,2-Dichloroethane-d4	45.4		µg/kg		50.0		91	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719678 - SW846 5035A Soil (high level)										
LCS (1719678-BS1)					Prepared & Analyzed: 22-Nov-17					
Surrogate: Dibromofluoromethane	49.1		µg/kg		50.0		98	70-130		
LCS Dup (1719678-BSD1)					Prepared & Analyzed: 22-Nov-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	16.9	D	µg/kg		20.0		84	70-130	26	30
Acetone	16.3	D	µg/kg		20.0		82	70-130	6	30
Acrylonitrile	18.2	D	µg/kg		20.0		91	70-130	28	30
Benzene	23.0	D	µg/kg		20.0		115	70-130	2	30
Bromobenzene	25.4	D	µg/kg		20.0		127	70-130	0.6	30
Bromochloromethane	24.7	D	µg/kg		20.0		123	70-130	2	30
Bromodichloromethane	20.7	D	µg/kg		20.0		103	70-130	2	30
Bromoform	23.0	D	µg/kg		20.0		115	70-130	0.2	30
Bromomethane	18.5	D	µg/kg		20.0		92	70-130	5	30
2-Butanone (MEK)	22.7	D	µg/kg		20.0		114	70-130	1	30
n-Butylbenzene	21.2	D	µg/kg		20.0		106	70-130	1	30
sec-Butylbenzene	22.6	D	µg/kg		20.0		113	70-130	0.4	30
tert-Butylbenzene	22.9	D	µg/kg		20.0		114	70-130	2	30
Carbon disulfide	15.0	QM9, D	µg/kg		20.0		75	70-130	37	30
Carbon tetrachloride	22.4	D	µg/kg		20.0		112	70-130	5	30
Chlorobenzene	23.0	D	µg/kg		20.0		115	70-130	1	30
Chloroethane	17.5	D	µg/kg		20.0		88	70-130	0	30
Chloroform	20.8	D	µg/kg		20.0		104	70-130	3	30
Chloromethane	17.1	D	µg/kg		20.0		85	70-130	3	30
2-Chlorotoluene	23.8	D	µg/kg		20.0		119	70-130	1	30
4-Chlorotoluene	21.8	D	µg/kg		20.0		109	70-130	0.2	30
1,2-Dibromo-3-chloropropane	20.8	D	µg/kg		20.0		104	70-130	2	30
Dibromochloromethane	21.4	D	µg/kg		20.0		107	70-130	3	30
1,2-Dibromoethane (EDB)	23.5	D	µg/kg		20.0		118	70-130	3	30
Dibromomethane	21.7	D	µg/kg		20.0		108	70-130	0.9	30
1,2-Dichlorobenzene	23.1	D	µg/kg		20.0		115	70-130	0.7	30
1,3-Dichlorobenzene	23.7	D	µg/kg		20.0		119	70-130	0.3	30
1,4-Dichlorobenzene	22.0	D	µg/kg		20.0		110	70-130	0.6	30
Dichlorodifluoromethane (Freon12)	17.3	D	µg/kg		20.0		86	70-130	6	30
1,1-Dichloroethane	21.0	D	µg/kg		20.0		105	70-130	3	30
1,2-Dichloroethane	20.4	D	µg/kg		20.0		102	70-130	0.9	30
1,1-Dichloroethene	18.8	D	µg/kg		20.0		94	70-130	22	30
cis-1,2-Dichloroethene	23.5	D	µg/kg		20.0		117	70-130	4	30
trans-1,2-Dichloroethene	23.5	D	µg/kg		20.0		118	70-130	5	30
1,2-Dichloropropane	21.5	D	µg/kg		20.0		107	70-130	2	30
1,3-Dichloropropane	21.6	D	µg/kg		20.0		108	70-130	0.7	30
2,2-Dichloropropane	25.8	D	µg/kg		20.0		129	70-130	1	30
1,1-Dichloropropene	22.3	D	µg/kg		20.0		111	70-130	3	30
cis-1,3-Dichloropropene	22.4	D	µg/kg		20.0		112	70-130	3	30
trans-1,3-Dichloropropene	22.8	D	µg/kg		20.0		114	70-130	3	30
Ethylbenzene	22.7	D	µg/kg		20.0		113	70-130	1	30
Hexachlorobutadiene	25.6	D	µg/kg		20.0		128	70-130	0.4	30
2-Hexanone (MBK)	22.0	D	µg/kg		20.0		110	70-130	1	30
Isopropylbenzene	22.5	D	µg/kg		20.0		112	70-130	0.7	30
4-Isopropyltoluene	22.2	D	µg/kg		20.0		111	70-130	1	30
Methyl tert-butyl ether	23.7	D	µg/kg		20.0		118	70-130	0.1	30
4-Methyl-2-pentanone (MIBK)	22.1	D	µg/kg		20.0		110	70-130	0.1	30
Methylene chloride	15.7	D	µg/kg		20.0		78	70-130	25	30

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719678 - SW846 5035A Soil (high level)										
<u>LCS Dup (1719678-BSD1)</u>					<u>Prepared & Analyzed: 22-Nov-17</u>					
Naphthalene	22.4	D	µg/kg		20.0		112	70-130	1	30
n-Propylbenzene	22.4	D	µg/kg		20.0		112	70-130	0.5	30
Styrene	23.3	D	µg/kg		20.0		117	70-130	0.6	30
1,1,1,2-Tetrachloroethane	24.0	D	µg/kg		20.0		120	70-130	3	30
1,1,2,2-Tetrachloroethane	22.6	D	µg/kg		20.0		113	70-130	1	30
Tetrachloroethene	21.6	D	µg/kg		20.0		108	70-130	2	30
Toluene	22.2	D	µg/kg		20.0		111	70-130	2	30
1,2,3-Trichlorobenzene	23.0	D	µg/kg		20.0		115	70-130	0.4	30
1,2,4-Trichlorobenzene	23.3	D	µg/kg		20.0		117	70-130	0.9	30
1,3,5-Trichlorobenzene	23.1	D	µg/kg		20.0		116	70-130	0.3	30
1,1,1-Trichloroethane	22.3	D	µg/kg		20.0		112	70-130	3	30
1,1,2-Trichloroethane	22.4	D	µg/kg		20.0		112	70-130	2	30
Trichloroethene	23.0	D	µg/kg		20.0		115	70-130	4	30
Trichlorofluoromethane (Freon 11)	17.5	D	µg/kg		20.0		88	70-130	2	30
1,2,3-Trichloropropane	22.9	D	µg/kg		20.0		114	70-130	2	30
1,2,4-Trimethylbenzene	22.5	D	µg/kg		20.0		112	70-130	0.04	30
1,3,5-Trimethylbenzene	22.4	D	µg/kg		20.0		112	70-130	1	30
Vinyl chloride	16.4	D	µg/kg		20.0		82	70-130	4	30
m,p-Xylene	23.2	D	µg/kg		20.0		116	70-130	2	30
o-Xylene	22.4	D	µg/kg		20.0		112	70-130	0.7	30
Tetrahydrofuran	19.6	D	µg/kg		20.0		98	70-130	0.8	30
Ethyl ether	19.7	D	µg/kg		20.0		99	70-130	28	30
Tert-amyl methyl ether	19.8	D	µg/kg		20.0		99	70-130	2	30
Ethyl tert-butyl ether	23.1	D	µg/kg		20.0		116	70-130	1	30
Di-isopropyl ether	21.6	D	µg/kg		20.0		108	70-130	1	30
Tert-Butanol / butyl alcohol	189	D	µg/kg		200		94	70-130	0.06	30
1,4-Dioxane	218	D	µg/kg		200		109	70-130	5	30
trans-1,4-Dichloro-2-butene	24.6	D	µg/kg		20.0		123	70-130	1	30
Ethanol	399	D	µg/kg		400		100	70-130	4	30
Surrogate: 4-Bromofluorobenzene	52.1		µg/kg		50.0		104	70-130		
Surrogate: Toluene-d8	49.3		µg/kg		50.0		99	70-130		
Surrogate: 1,2-Dichloroethane-d4	45.4		µg/kg		50.0		91	70-130		
Surrogate: Dibromofluoromethane	49.1		µg/kg		50.0		98	70-130		
Batch 1719679 - SW846 5035A Soil (low level)										
<u>Blank (1719679-BLK1)</u>					<u>Prepared & Analyzed: 22-Nov-17</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.00	U	µg/kg wet	5.00						
Acetone	< 50.0	U	µg/kg wet	50.0						
Acrylonitrile	< 5.00	U	µg/kg wet	5.00						
Benzene	< 5.00	U	µg/kg wet	5.00						
Bromobenzene	< 5.00	U	µg/kg wet	5.00						
Bromochloromethane	< 5.00	U	µg/kg wet	5.00						
Bromodichloromethane	< 5.00	U	µg/kg wet	5.00						
Bromoform	< 5.00	U	µg/kg wet	5.00						
Bromomethane	< 10.0	U	µg/kg wet	10.0						
2-Butanone (MEK)	< 10.0	U	µg/kg wet	10.0						
n-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
sec-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
tert-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
Carbon disulfide	< 10.0	U	µg/kg wet	10.0						
Carbon tetrachloride	< 5.00	U	µg/kg wet	5.00						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8260C</u>										
Batch 1719679 - SW846 5035A Soil (low level)										
<u>Blank (1719679-BLK1)</u>	<u>Prepared & Analyzed: 22-Nov-17</u>									
Chlorobenzene	< 5.00	U	µg/kg wet	5.00						
Chloroethane	< 10.0	U	µg/kg wet	10.0						
Chloroform	< 5.00	U	µg/kg wet	5.00						
Chloromethane	< 10.0	U	µg/kg wet	10.0						
2-Chlorotoluene	< 5.00	U	µg/kg wet	5.00						
4-Chlorotoluene	< 5.00	U	µg/kg wet	5.00						
1,2-Dibromo-3-chloropropane	< 10.0	U	µg/kg wet	10.0						
Dibromochloromethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dibromoethane (EDB)	< 5.00	U	µg/kg wet	5.00						
Dibromomethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,3-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,4-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
Dichlorodifluoromethane (Freon12)	< 10.0	U	µg/kg wet	10.0						
1,1-Dichloroethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dichloroethane	< 5.00	U	µg/kg wet	5.00						
1,1-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
cis-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
trans-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
1,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
1,3-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
2,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
1,1-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
cis-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
trans-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
Ethylbenzene	< 5.00	U	µg/kg wet	5.00						
Hexachlorobutadiene	< 5.00	U	µg/kg wet	5.00						
2-Hexanone (MBK)	< 10.0	U	µg/kg wet	10.0						
Isopropylbenzene	< 5.00	U	µg/kg wet	5.00						
4-Isopropyltoluene	< 5.00	U	µg/kg wet	5.00						
Methyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00						
4-Methyl-2-pentanone (MIBK)	< 10.0	U	µg/kg wet	10.0						
Methylene chloride	< 10.0	U	µg/kg wet	10.0						
Naphthalene	< 5.00	U	µg/kg wet	5.00						
n-Propylbenzene	< 5.00	U	µg/kg wet	5.00						
Styrene	< 5.00	U	µg/kg wet	5.00						
1,1,1,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00						
1,1,2,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00						
Tetrachloroethene	< 5.00	U	µg/kg wet	5.00						
Toluene	< 5.00	U	µg/kg wet	5.00						
1,2,3-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,2,4-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,3,5-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,1,1-Trichloroethane	< 5.00	U	µg/kg wet	5.00						
1,1,2-Trichloroethane	< 5.00	U	µg/kg wet	5.00						
Trichloroethene	< 5.00	U	µg/kg wet	5.00						
Trichlorofluoromethane (Freon 11)	< 5.00	U	µg/kg wet	5.00						
1,2,3-Trichloropropane	< 5.00	U	µg/kg wet	5.00						
1,2,4-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00						
1,3,5-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8260C</u>										
Batch 1719679 - SW846 5035A Soil (low level)										
<u>Blank (1719679-BLK1)</u>					<u>Prepared & Analyzed: 22-Nov-17</u>					
Vinyl chloride	< 5.00	U	µg/kg wet	5.00						
m,p-Xylene	< 10.0	U	µg/kg wet	10.0						
o-Xylene	< 5.00	U	µg/kg wet	5.00						
Tetrahydrofuran	< 10.0	U	µg/kg wet	10.0						
Ethyl ether	< 5.00	U	µg/kg wet	5.00						
Tert-amyl methyl ether	< 5.00	U	µg/kg wet	5.00						
Ethyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00						
Di-isopropyl ether	< 5.00	U	µg/kg wet	5.00						
Tert-Butanol / butyl alcohol	< 50.0	U	µg/kg wet	50.0						
1,4-Dioxane	< 100	U	µg/kg wet	100						
trans-1,4-Dichloro-2-butene	< 25.0	U	µg/kg wet	25.0						
Ethanol	< 1000	U	µg/kg wet	1000						
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>47.0</i>		<i>µg/kg</i>		<i>50.0</i>		<i>94</i>	<i>70-130</i>		
<i>Surrogate: Toluene-d8</i>	<i>51.7</i>		<i>µg/kg</i>		<i>50.0</i>		<i>103</i>	<i>70-130</i>		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>64.6</i>		<i>µg/kg</i>		<i>50.0</i>		<i>129</i>	<i>70-130</i>		
<i>Surrogate: Dibromofluoromethane</i>	<i>58.5</i>		<i>µg/kg</i>		<i>50.0</i>		<i>117</i>	<i>70-130</i>		
<u>LCS (1719679-BS1)</u>					<u>Prepared & Analyzed: 22-Nov-17</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0		µg/kg		20.0		100	70-130		
Acetone	15.0		µg/kg		20.0		75	70-130		
Acrylonitrile	14.4		µg/kg		20.0		72	70-130		
Benzene	17.4		µg/kg		20.0		87	70-130		
Bromobenzene	20.0		µg/kg		20.0		100	70-130		
Bromochloromethane	18.7		µg/kg		20.0		94	70-130		
Bromodichloromethane	19.3		µg/kg		20.0		96	70-130		
Bromoform	16.1		µg/kg		20.0		80	70-130		
Bromomethane	19.8		µg/kg		20.0		99	70-130		
2-Butanone (MEK)	17.4		µg/kg		20.0		87	70-130		
n-Butylbenzene	21.1		µg/kg		20.0		105	70-130		
sec-Butylbenzene	21.0		µg/kg		20.0		105	70-130		
tert-Butylbenzene	20.6		µg/kg		20.0		103	70-130		
Carbon disulfide	15.9		µg/kg		20.0		79	70-130		
Carbon tetrachloride	22.2		µg/kg		20.0		111	70-130		
Chlorobenzene	20.3		µg/kg		20.0		102	70-130		
Chloroethane	18.9		µg/kg		20.0		94	70-130		
Chloroform	19.8		µg/kg		20.0		99	70-130		
Chloromethane	22.5		µg/kg		20.0		112	70-130		
2-Chlorotoluene	20.7		µg/kg		20.0		104	70-130		
4-Chlorotoluene	20.9		µg/kg		20.0		105	70-130		
1,2-Dibromo-3-chloropropane	13.6	QM9	µg/kg		20.0		68	70-130		
Dibromochloromethane	18.8		µg/kg		20.0		94	70-130		
1,2-Dibromoethane (EDB)	17.5		µg/kg		20.0		88	70-130		
Dibromomethane	18.8		µg/kg		20.0		94	70-130		
1,2-Dichlorobenzene	19.6		µg/kg		20.0		98	70-130		
1,3-Dichlorobenzene	21.2		µg/kg		20.0		106	70-130		
1,4-Dichlorobenzene	19.7		µg/kg		20.0		98	70-130		
Dichlorodifluoromethane (Freon12)	17.9		µg/kg		20.0		89	70-130		
1,1-Dichloroethane	17.9		µg/kg		20.0		89	70-130		
1,2-Dichloroethane	21.1		µg/kg		20.0		105	70-130		
1,1-Dichloroethene	17.4		µg/kg		20.0		87	70-130		
cis-1,2-Dichloroethene	18.1		µg/kg		20.0		90	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719679 - SW846 5035A Soil (low level)										
LCS (1719679-BS1)					Prepared & Analyzed: 22-Nov-17					
trans-1,2-Dichloroethene	17.2		µg/kg		20.0		86	70-130		
1,2-Dichloropropane	16.8		µg/kg		20.0		84	70-130		
1,3-Dichloropropane	17.8		µg/kg		20.0		89	70-130		
2,2-Dichloropropane	18.0		µg/kg		20.0		90	70-130		
1,1-Dichloropropene	18.3		µg/kg		20.0		92	70-130		
cis-1,3-Dichloropropene	16.1		µg/kg		20.0		81	70-130		
trans-1,3-Dichloropropene	15.9		µg/kg		20.0		80	70-130		
Ethylbenzene	19.8		µg/kg		20.0		99	70-130		
Hexachlorobutadiene	23.0		µg/kg		20.0		115	70-130		
2-Hexanone (MBK)	13.8	QM9	µg/kg		20.0		69	70-130		
Isopropylbenzene	20.6		µg/kg		20.0		103	70-130		
4-Isopropyltoluene	21.4		µg/kg		20.0		107	70-130		
Methyl tert-butyl ether	14.1		µg/kg		20.0		70	70-130		
4-Methyl-2-pentanone (MIBK)	13.6	QM9	µg/kg		20.0		68	70-130		
Methylene chloride	17.0		µg/kg		20.0		85	70-130		
Naphthalene	14.1		µg/kg		20.0		70	70-130		
n-Propylbenzene	20.1		µg/kg		20.0		100	70-130		
Styrene	16.7		µg/kg		20.0		84	70-130		
1,1,1,2-Tetrachloroethane	21.0		µg/kg		20.0		105	70-130		
1,1,2,2-Tetrachloroethane	17.0		µg/kg		20.0		85	70-130		
Tetrachloroethene	20.7		µg/kg		20.0		103	70-130		
Toluene	18.7		µg/kg		20.0		93	70-130		
1,2,3-Trichlorobenzene	21.3		µg/kg		20.0		107	70-130		
1,2,4-Trichlorobenzene	20.4		µg/kg		20.0		102	70-130		
1,3,5-Trichlorobenzene	23.0		µg/kg		20.0		115	70-130		
1,1,1-Trichloroethane	20.5		µg/kg		20.0		102	70-130		
1,1,2-Trichloroethane	16.6		µg/kg		20.0		83	70-130		
Trichloroethene	19.3		µg/kg		20.0		97	70-130		
Trichlorofluoromethane (Freon 11)	23.8		µg/kg		20.0		119	70-130		
1,2,3-Trichloropropane	17.7		µg/kg		20.0		88	70-130		
1,2,4-Trimethylbenzene	21.6		µg/kg		20.0		108	70-130		
1,3,5-Trimethylbenzene	21.4		µg/kg		20.0		107	70-130		
Vinyl chloride	20.8		µg/kg		20.0		104	70-130		
m,p-Xylene	18.9		µg/kg		20.0		94	70-130		
o-Xylene	19.8		µg/kg		20.0		99	70-130		
Tetrahydrofuran	12.6	QC2	µg/kg		20.0		63	70-130		
Ethyl ether	16.7		µg/kg		20.0		84	70-130		
Tert-amyl methyl ether	19.6		µg/kg		20.0		98	70-130		
Ethyl tert-butyl ether	14.5		µg/kg		20.0		72	70-130		
Di-isopropyl ether	15.6		µg/kg		20.0		78	70-130		
Tert-Butanol / butyl alcohol	132	QM9	µg/kg		200		66	70-130		
1,4-Dioxane	137		µg/kg		200		68	70-130		
trans-1,4-Dichloro-2-butene	12.4	QC2	µg/kg		20.0		62	70-130		
Ethanol	331		µg/kg		400		83	70-130		
Surrogate: 4-Bromofluorobenzene	49.8		µg/kg		50.0		100	70-130		
Surrogate: Toluene-d8	48.9		µg/kg		50.0		98	70-130		
Surrogate: 1,2-Dichloroethane-d4	52.2		µg/kg		50.0		104	70-130		
Surrogate: Dibromofluoromethane	53.0		µg/kg		50.0		106	70-130		
LCS Dup (1719679-BSD1)					Prepared & Analyzed: 22-Nov-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	21.3		µg/kg		20.0		106	70-130	6	30

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719679 - SW846 5035A Soil (low level)										
LCS Dup (1719679-BSD1)					Prepared & Analyzed: 22-Nov-17					
Acetone	16.5		µg/kg		20.0		83	70-130	10	30
Acrylonitrile	15.7		µg/kg		20.0		79	70-130	9	30
Benzene	18.5		µg/kg		20.0		93	70-130	6	30
Bromobenzene	20.1		µg/kg		20.0		100	70-130	0.05	30
Bromochloromethane	20.3		µg/kg		20.0		102	70-130	8	30
Bromodichloromethane	20.4		µg/kg		20.0		102	70-130	6	30
Bromoform	16.2		µg/kg		20.0		81	70-130	0.7	30
Bromomethane	20.1		µg/kg		20.0		101	70-130	2	30
2-Butanone (MEK)	17.1		µg/kg		20.0		86	70-130	1	30
n-Butylbenzene	20.9		µg/kg		20.0		105	70-130	0.7	30
sec-Butylbenzene	20.7		µg/kg		20.0		104	70-130	1	30
tert-Butylbenzene	20.3		µg/kg		20.0		101	70-130	2	30
Carbon disulfide	17.0		µg/kg		20.0		85	70-130	7	30
Carbon tetrachloride	23.5		µg/kg		20.0		117	70-130	5	30
Chlorobenzene	20.0		µg/kg		20.0		100	70-130	2	30
Chloroethane	18.8		µg/kg		20.0		94	70-130	0.6	30
Chloroform	20.9		µg/kg		20.0		104	70-130	6	30
Chloromethane	17.2		µg/kg		20.0		86	70-130	27	30
2-Chlorotoluene	20.2		µg/kg		20.0		101	70-130	3	30
4-Chlorotoluene	20.6		µg/kg		20.0		103	70-130	1	30
1,2-Dibromo-3-chloropropane	14.3		µg/kg		20.0		72	70-130	5	30
Dibromochloromethane	19.9		µg/kg		20.0		100	70-130	6	30
1,2-Dibromoethane (EDB)	19.0		µg/kg		20.0		95	70-130	8	30
Dibromomethane	20.2		µg/kg		20.0		101	70-130	7	30
1,2-Dichlorobenzene	19.6		µg/kg		20.0		98	70-130	0	30
1,3-Dichlorobenzene	20.6		µg/kg		20.0		103	70-130	3	30
1,4-Dichlorobenzene	19.6		µg/kg		20.0		98	70-130	0.6	30
Dichlorodifluoromethane (Freon12)	18.2		µg/kg		20.0		91	70-130	2	30
1,1-Dichloroethane	19.3		µg/kg		20.0		96	70-130	8	30
1,2-Dichloroethane	21.9		µg/kg		20.0		110	70-130	4	30
1,1-Dichloroethene	18.3		µg/kg		20.0		92	70-130	5	30
cis-1,2-Dichloroethene	19.1		µg/kg		20.0		96	70-130	6	30
trans-1,2-Dichloroethene	18.9		µg/kg		20.0		95	70-130	10	30
1,2-Dichloropropane	18.0		µg/kg		20.0		90	70-130	7	30
1,3-Dichloropropane	18.9		µg/kg		20.0		95	70-130	6	30
2,2-Dichloropropane	19.1		µg/kg		20.0		95	70-130	6	30
1,1-Dichloropropene	19.8		µg/kg		20.0		99	70-130	8	30
cis-1,3-Dichloropropene	17.1		µg/kg		20.0		86	70-130	6	30
trans-1,3-Dichloropropene	16.8		µg/kg		20.0		84	70-130	5	30
Ethylbenzene	19.6		µg/kg		20.0		98	70-130	1	30
Hexachlorobutadiene	22.8		µg/kg		20.0		114	70-130	0.9	30
2-Hexanone (MBK)	14.8		µg/kg		20.0		74	70-130	7	30
Isopropylbenzene	20.2		µg/kg		20.0		101	70-130	2	30
4-Isopropyltoluene	20.9		µg/kg		20.0		104	70-130	3	30
Methyl tert-butyl ether	15.0		µg/kg		20.0		75	70-130	6	30
4-Methyl-2-pentanone (MIBK)	16.3		µg/kg		20.0		82	70-130	18	30
Methylene chloride	18.0		µg/kg		20.0		90	70-130	6	30
Naphthalene	14.6		µg/kg		20.0		73	70-130	3	30
n-Propylbenzene	19.7		µg/kg		20.0		98	70-130	2	30
Styrene	17.9		µg/kg		20.0		89	70-130	7	30

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719679 - SW846 5035A Soil (low level)										
LCS Dup (1719679-BSD1)					Prepared & Analyzed: 22-Nov-17					
1,1,1,2-Tetrachloroethane	21.0		µg/kg		20.0		105	70-130	0.3	30
1,1,2,2-Tetrachloroethane	16.9		µg/kg		20.0		85	70-130	0.2	30
Tetrachloroethene	21.6		µg/kg		20.0		108	70-130	5	30
Toluene	19.6		µg/kg		20.0		98	70-130	5	30
1,2,3-Trichlorobenzene	21.3		µg/kg		20.0		106	70-130	0.1	30
1,2,4-Trichlorobenzene	20.6		µg/kg		20.0		103	70-130	1	30
1,3,5-Trichlorobenzene	22.8		µg/kg		20.0		114	70-130	0.6	30
1,1,1-Trichloroethane	21.8		µg/kg		20.0		109	70-130	6	30
1,1,2-Trichloroethane	18.0		µg/kg		20.0		90	70-130	9	30
Trichloroethene	20.5		µg/kg		20.0		103	70-130	6	30
Trichlorofluoromethane (Freon 11)	25.5		µg/kg		20.0		128	70-130	7	30
1,2,3-Trichloropropane	17.5		µg/kg		20.0		87	70-130	1	30
1,2,4-Trimethylbenzene	21.0		µg/kg		20.0		105	70-130	3	30
1,3,5-Trimethylbenzene	20.5		µg/kg		20.0		103	70-130	4	30
Vinyl chloride	21.6		µg/kg		20.0		108	70-130	4	30
m,p-Xylene	18.7		µg/kg		20.0		93	70-130	1	30
o-Xylene	19.4		µg/kg		20.0		97	70-130	2	30
Tetrahydrofuran	12.7	QC2	µg/kg		20.0		64	70-130	1	30
Ethyl ether	17.5		µg/kg		20.0		88	70-130	5	30
Tert-amyl methyl ether	20.8		µg/kg		20.0		104	70-130	6	30
Ethyl tert-butyl ether	15.6		µg/kg		20.0		78	70-130	7	30
Di-isopropyl ether	16.1		µg/kg		20.0		81	70-130	4	30
Tert-Butanol / butyl alcohol	143		µg/kg		200		71	70-130	8	30
1,4-Dioxane	122		µg/kg		200		61	70-130	12	30
trans-1,4-Dichloro-2-butene	13.7	QC2	µg/kg		20.0		68	70-130	10	30
Ethanol	335		µg/kg		400		84	70-130	1	30
Surrogate: 4-Bromofluorobenzene	49.9		µg/kg		50.0		100	70-130		
Surrogate: Toluene-d8	51.8		µg/kg		50.0		104	70-130		
Surrogate: 1,2-Dichloroethane-d4	56.1		µg/kg		50.0		112	70-130		
Surrogate: Dibromofluoromethane	56.5		µg/kg		50.0		113	70-130		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SM2540 G (11) Mod.</u>										
Batch 1719263 - General Preparation										
<u>Duplicate (1719263-DUP1)</u>						<u>Source: SC41491-10</u>		<u>Prepared & Analyzed: 14-Nov-17</u>		
% Solids	88.2		%			88.6			0.5	5
<u>Duplicate (1719263-DUP2)</u>						<u>Source: SC41491-11</u>		<u>Prepared & Analyzed: 14-Nov-17</u>		
% Solids	85.0		%			85.0			0.06	5

Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW6010C										
Batch 409769A - 409769-										
<u>BLK (BZ42372-BLK)</u>					<u>Prepared: 15-Nov-17 Analyzed: 16-Nov-17</u>					
Cadmium	< 0.33		mg/kg	0.33				-		
Silver	< 0.33		mg/kg	0.33				-		
Selenium	< 1.3		mg/kg	1.3				-		
Arsenic	< 0.66		mg/kg	0.66				-		
Chromium	< 0.33		mg/kg	0.33				-		
Barium	< 0.33		mg/kg	0.33				-		
Lead	< 0.33		mg/kg	0.33				-		
<u>DUP (BZ42372-DUP)</u>					<u>Source: SC41491-08</u>		<u>Prepared: 15-Nov-17 Analyzed: 16-Nov-17</u>			
Chromium	12.9		mg/kg	0.35				-	0.8	30
Lead	29.7		mg/kg	0.35				-	52.8	30
Silver	< 0.35		mg/kg	0.35		BRL		-	NC	30
Arsenic	7.12		mg/kg	0.69				-	3.6	30
Cadmium	0.38		mg/kg	0.35		BRL		-	NC	30
Selenium	< 1.4		mg/kg	1.4		BRL		-	NC	30
Barium	38.2		mg/kg	0.35				-	1.3	30
<u>LCS (BZ42372-LCS)</u>					<u>Prepared: 15-Nov-17 Analyzed: 16-Nov-17</u>					
Arsenic	85.51		mg/kg	0.66	95.4		89.6	75-125		30
Barium	199.5		mg/kg	0.33	253		78.9	75-125		30
Cadmium	76.98		mg/kg	0.33	81		95.0	75-125		30
Chromium	103.2		mg/kg	0.33	110.4		93.5	75-125		30
Lead	74.44		mg/kg	0.33	83.8		88.8	75-125		30
Selenium	66.64		mg/kg	1.3	73.7		90.4	75-125		30
Silver	37.98		mg/kg	0.33	43.2		87.9	75-125		30
<u>MS (BZ42372-MS)</u>					<u>Source: SC41491-08</u>		<u>Prepared: 15-Nov-17 Analyzed: 16-Nov-17</u>			
Arsenic	237.8		mg/kg	0.66	280.2		82.4	75-125		30
Selenium	116.9		mg/kg	1.3	140.1	BRL	90.0	75-125		30
Silver	32.49		mg/kg	0.33	35.02	BRL	93.0	75-125		30
Lead	267.8		mg/kg	0.33	280.2		89.4	75-125		30
Chromium	140.3		mg/kg	0.33	140.1		91.0	75-125		30
Barium	179.7		mg/kg	0.33	140.1		101	75-125		30
Cadmium	120.4		mg/kg	0.33	140.1	BRL	85.7	75-125		30
SW7471B										
Batch 409827A - 409827-										
<u>BLK (BZ42187-BLK)</u>					<u>Prepared & Analyzed: 16-Nov-17</u>					
Mercury	< 0.02		mg/kg	0.02				-		
<u>DUP (BZ42187-DUP)</u>					<u>Source: BZ42187</u>		<u>Prepared & Analyzed: 16-Nov-17</u>			
Mercury	< 0.03		mg/kg	0.03				-	NC	30
<u>LCS (BZ42187-LCS)</u>					<u>Prepared & Analyzed: 16-Nov-17</u>					
Mercury	0.1374		mg/kg	0.02	0.1639		83.8	70-130		30
<u>LCSD (BZ42187-LCSD)</u>					<u>Prepared & Analyzed: 16-Nov-17</u>					
Mercury	0.1328		%		0.1613		82.3	70-130	1.8	30
<u>MS (BZ42187-MS)</u>					<u>Source: BZ42187</u>		<u>Prepared & Analyzed: 16-Nov-17</u>			
Mercury	0.1198		mg/kg	0.02	.15873012		75.5	75-125		30
Batch 409828A - 409828-										
<u>BLK (BZ40382-BLK)</u>					<u>Prepared & Analyzed: 16-Nov-17</u>					
Mercury	< 0.02		mg/kg	0.02				-		
<u>DUP (BZ40382-DUP)</u>					<u>Source: BZ40382</u>		<u>Prepared & Analyzed: 16-Nov-17</u>			
Mercury	0.34		mg/kg	0.03				-	5.7	30
<u>LCS (BZ40382-LCS)</u>					<u>Prepared & Analyzed: 16-Nov-17</u>					

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW7471B</u>										
Batch 409828A - 409828-										
<u>LCS (BZ40382-LCS)</u>					<u>Prepared & Analyzed: 16-Nov-17</u>					
Mercury	0.1482		mg/kg	0.02	0.1471		101	70-130		30
<u>LCSD (BZ40382-LCSD)</u>					<u>Prepared & Analyzed: 16-Nov-17</u>					
Mercury	0.1564		%		0.1667		93.8	70-130	7.4	30
<u>MS (BZ40382-MS)</u>					<u>Source: BZ40382</u> <u>Prepared & Analyzed: 16-Nov-17</u>					
Mercury	0.7290	m	mg/kg	0.02	0.15625		>125	75-125		30
<u>SW8270D (SIM)</u>										
Batch 409770A - 409770-SW8270										
<u>BLK (BZ41856-BLK)</u>					<u>Prepared: 15-Nov-17 Analyzed: 16-Nov-17</u>					
Pyrene	ND		ug/kg	130				-		
Phenanthrene	ND		ug/kg	130				-		
2-Methylnaphthalene	ND		ug/kg	130				-		
Naphthalene	ND		ug/kg	130				-		
Benzo(k)fluoranthene	ND		ug/kg	130				-		
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130				-		
Fluorene	ND		ug/kg	130				-		
Fluoranthene	ND		ug/kg	130				-		
Dibenz(a,h)anthracene	ND		ug/kg	130				-		
Chrysene	ND		ug/kg	130				-		
Benzo(ghi)perylene	ND		ug/kg	130				-		
Benzo(b)fluoranthene	ND		ug/kg	130				-		
Benzo(a)pyrene	ND		ug/kg	130				-		
Benz(a)anthracene	ND		ug/kg	130				-		
Anthracene	ND		ug/kg	130				-		
Acenaphthylene	ND		ug/kg	130				-		
Acenaphthene	ND		ug/kg	130				-		
Surrogate: % 2-Fluorobiphenyl	54		ug/kg		5			30-130		
Surrogate: % Nitrobenzene-d5	45		ug/kg		5			30-130		
Surrogate: % Terphenyl-d14	59		ug/kg		5			30-130		
<u>LCS (BZ41856-LCS)</u>					<u>Prepared: 15-Nov-17 Analyzed: 16-Nov-17</u>					
Fluoranthene	2.900		ug/kg	130	5		58	30-130		30
Benzo(ghi)perylene	3.114		ug/kg	130	5		62	30-130		30
Pyrene	2.950		ug/kg	130	5		59	30-130		30
Phenanthrene	2.946		ug/kg	130	5		59	30-130		30
Naphthalene	2.651		ug/kg	130	5		53	30-130		30
Fluorene	3.188		ug/kg	130	5		64	30-130		30
Dibenz(a,h)anthracene	3.330		ug/kg	130	5		67	30-130		30
Chrysene	3.309		ug/kg	130	5		66	30-130		30
Benzo(k)fluoranthene	3.449		ug/kg	130	5		69	30-130		30
Benzo(a)pyrene	3.185		ug/kg	130	5		64	30-130		30
Benz(a)anthracene	2.858		ug/kg	130	5		57	30-130		30
Anthracene	3.320		ug/kg	130	5		66	30-130		30
Indeno(1,2,3-cd)pyrene	2.979		ug/kg	130	5		60	30-130		30
Acenaphthylene	2.989		ug/kg	130	5		60	30-130		30
Benzo(b)fluoranthene	2.836		ug/kg	130	5		57	30-130		30
Acenaphthene	3.311		ug/kg	130	5		66	30-130		30
2-Methylnaphthalene	2.537		ug/kg	130	5		51	30-130		30
Surrogate: % Terphenyl-d14	3.069		ug/kg		5		61	30-130		
Surrogate: % 2-Fluorobiphenyl	2.977		ug/kg		5		60	30-130		
Surrogate: % Nitrobenzene-d5	2.777		ug/kg		5		56	30-130		

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8270D (SIM)										
Batch 409770A - 409770-SW8270										
LCSD (BZ41856-LCSD)					Prepared: 15-Nov-17 Analyzed: 16-Nov-17					
Benzo(ghi)perylene	3.238		%	%	5		65	30-130	4.7	30
2-Methylnaphthalene	2.668		%	%	5		53	30-130	3.8	30
Indeno(1,2,3-cd)pyrene	3.047		%	%	5		61	30-130	1.7	30
Fluoranthene	3.084		%	%	5		62	30-130	6.7	30
Naphthalene	2.895		%	%	5		58	30-130	9.0	30
Dibenz(a,h)anthracene	3.410		%	%	5		68	30-130	1.5	30
Chrysene	3.551		%	%	5		71	30-130	7.3	30
Benzo(k)fluoranthene	3.657		%	%	5		73	30-130	5.6	30
Fluorene	3.342		%	%	5		67	30-130	4.6	30
Benzo(b)fluoranthene	2.970		%	%	5		59	30-130	3.4	30
Benzo(a)pyrene	3.340		%	%	5		67	30-130	4.6	30
Benz(a)anthracene	2.972		%	%	5		59	30-130	3.4	30
Anthracene	3.509		%	%	5		70	30-130	5.9	30
Acenaphthene	3.515		%	%	5		70	30-130	5.9	30
Pyrene	3.150		%	%	5		63	30-130	6.6	30
Phenanthrene	3.096		%	%	5		62	30-130	5.0	30
Acenaphthylene	3.179		%	%	5		64	30-130	6.5	30
Surrogate: % 2-Fluorobiphenyl	3.230		%		5		65	30-130		
Surrogate: % Nitrobenzene-d5	3.016		%		5		60	30-130		
Surrogate: % Terphenyl-d14	3.271		%		5		65	30-130		
MS (BZ41856-MS)					Source: BZ41856 Prepared: 15-Nov-17 Analyzed: 16-Nov-17					
2-Methylnaphthalene	2.635		ug/kg	130	5		53	30-130		30
Acenaphthene	3.277		ug/kg	130	5		66	30-130		30
Acenaphthylene	2.961		ug/kg	130	5		59	30-130		30
Anthracene	3.293		ug/kg	130	5		66	30-130		30
Benz(a)anthracene	2.748		ug/kg	130	5		55	30-130		30
Benzo(a)pyrene	3.092		ug/kg	130	5		62	30-130		30
Benzo(b)fluoranthene	2.763		ug/kg	130	5		55	30-130		30
Benzo(k)fluoranthene	3.401		ug/kg	130	5		68	30-130		30
Chrysene	3.257		ug/kg	130	5		65	30-130		30
Dibenz(a,h)anthracene	3.193		ug/kg	130	5		64	30-130		30
Fluoranthene	2.921		ug/kg	130	5		58	30-130		30
Fluorene	3.167		ug/kg	130	5		63	30-130		30
Indeno(1,2,3-cd)pyrene	2.853		ug/kg	130	5		57	30-130		30
Naphthalene	2.836		ug/kg	130	5		57	30-130		30
Phenanthrene	2.912		ug/kg	130	5		58	30-130		30
Pyrene	2.999		ug/kg	130	5		60	30-130		30
Benzo(ghi)perylene	3.016		ug/kg	130	5		60	30-130		30
Surrogate: % 2-Fluorobiphenyl	2.990		ug/kg		5		60	30-130		
Surrogate: % Nitrobenzene-d5	3.074		ug/kg		5		61	30-130		
Surrogate: % Terphenyl-d14	3.144		ug/kg		5		63	30-130		
MSD (BZ41856-MSD)					Source: BZ41856 Prepared: 15-Nov-17 Analyzed: 16-Nov-17					
Acenaphthylene	3.483		%	%	5		70	30-130	17.1	30
Acenaphthene	3.784		%	%	5		76	30-130	14.1	30
Pyrene	3.487		%	%	5		70	30-130	15.4	30
Benzo(ghi)perylene	3.511		%	%	5		70	30-130	15.4	30
Phenanthrene	3.390		%	%	5		68	30-130	15.9	30
Naphthalene	3.217		%	%	5		64	30-130	11.6	30
Indeno(1,2,3-cd)pyrene	3.302		%	%	5		66	30-130	14.6	30
Fluorene	3.734		%	%	5		75	30-130	17.4	30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW8270D (SIM)</u>										
Batch 409770A - 409770-SW8270										
<u>MSD (BZ41856-MSD)</u>										
				<u>Source: BZ41856</u>				<u>Prepared: 15-Nov-17 Analyzed: 16-Nov-17</u>		
Fluoranthene	3.396		%	%	5		68	30-130	15.9	30
Dibenz(a,h)anthracene	3.731		%	%	5		75	30-130	15.8	30
2-Methylnaphthalene	2.993		%	%	5		60	30-130	12.4	30
Benzo(k)fluoranthene	4.020		%	%	5		80	30-130	16.2	30
Anthracene	3.800		%	%	5		76	30-130	14.1	30
Benzo(b)fluoranthene	3.199		%	%	5		64	30-130	15.1	30
Benzo(a)pyrene	3.612		%	%	5		72	30-130	14.9	30
Benz(a)anthracene	3.223		%	%	5		64	30-130	15.1	30
Chrysene	3.780		%	%	5		76	30-130	15.6	30
Surrogate: % 2-Fluorobiphenyl	3.520		%		5		70	30-130		
Surrogate: % Nitrobenzene-d5	3.459		%		5		69	30-130		
Surrogate: % Terphenyl-d14	3.687		%		5		74	30-130		

The following list indicates the date and time low-level VOC soil/sediment samples were placed in the freezer at the lab:

SC41491-01	<i>SB-30</i>	11/10/2017 1:42 PM
SC41491-02	<i>SB-7</i>	11/10/2017 1:42 PM
SC41491-03	<i>SB-29</i>	11/10/2017 1:42 PM
SC41491-04	<i>SB-5</i>	11/10/2017 1:42 PM
SC41491-05	<i>SB-26</i>	11/10/2017 1:42 PM
SC41491-06	<i>SB-20</i>	11/10/2017 1:42 PM
SC41491-07	<i>SB-21</i>	11/10/2017 1:42 PM
SC41491-08	<i>SB-22</i>	11/10/2017 1:42 PM
SC41491-09	<i>SB-24</i>	11/10/2017 1:42 PM
SC41491-10	<i>SB-25</i>	11/10/2017 1:42 PM
SC41491-11	<i>SB-10</i>	11/10/2017 1:42 PM
SC41491-12	<i>SB-27</i>	11/10/2017 1:42 PM
SC41491-13	<i>SB-28</i>	11/10/2017 1:42 PM
SC41491-14	<i>SB-11</i>	11/10/2017 1:42 PM
SC41491-15	<i>SB-23</i>	11/10/2017 1:42 PM

Notes and Definitions

D	Data reported from a dilution
E	This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.
GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
J	Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
m	This parameter is outside laboratory ms/msd specified recovery limits.
OR	Over Range
QC2	Analyte out of acceptance range in QC spike but no reportable concentration present in sample.
QM9	The spike recovery for this QC sample is outside the established control limits. The sample results for the QC batch were accepted based on LCS/LCSD or SRM recoveries within the control limits.
QR2	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
SGCMSVOC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates with three required by program methods.
U	Analyte included in the analysis, but not detected at or above the MDL.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.



Spectrum Analytical

CHAIN OF CUSTODY RECORD

Special Handling:

- ☒ Standard TAT - 7 to 10 business days
☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed.

Page 1 of 2Report To: AEC6308 Fly Road
East Syracuse, NY 13057Telephone #: (315) 432-9400Project Mgr: Zich McKenna

P.O. No.: _____

Quote #: _____

Invoice To: AEC Project #17-217check@aeisys.comProject No: 17-217Site Name: 1712 Erie StLocation: UticaSampler(s): Dev BatorState: NYF=Field Filtered 1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9=Deionized Water 10=H₃PO₄ 11= _____ 12= _____

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water

O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas

X1= _____ X2= _____ X3= _____

G=Grab

C=Composite

Lab ID:

Sample ID:

Date:

Time:

Type

Matrix

Containers

of VOA Vials
of Amber Glass
of Clear Glass
of Plastic

Analysis

List Preservative Code below:

QA/QC Reporting Notes:
* additional changes may apply

Check if chlorinated

MA DEP MCP CAM Report? ☐ Yes ☐ No
CT DPH RCT Report? ☐ Yes ☐ No
☒ Standard ☐ No QC
☐ DOA* ☐ B* ☐ Full*
☐ Reduced* ☐ Filter II* ☐ Filter IV*
☐ Other: _____
State-specific reporting standards: _____

SC41491-21

SB-30

11/9/17

0944

G

SO

3

3

3

3

3

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

SB-7

11/9/17

1030

G

SO

3

3

3

3

3

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

SB-29

11/9/17

1101

G

SO

3

3

3

3

3

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

SB-5

11/9/17

1128

G

SO

3

3

3

3

3

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

SB-24

11/9/17

1154

G

SO

3

3

3

3

3

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

SB-20

11/9/17

1235

G

SO

3

3

3

3

3

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

SB-21

11/9/17

1300

G

SO

3

3

3

3

3

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

SB-22

11/9/17

1324

G

SO

3

3

3

3

3

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

SB-24

11/9/17

1400

G

SO

3

3

3

3

3

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

Relinquished by:

Received by:

Date:

Time:

Temp °C

Observed

E-mail to: PDF and ExcelCondition upon receipt: check@aeisys.comCustody Seals: check@aeisys.comPresent ☐ Intact ☐ Broken ☐Ambient ☒ Iced ☐ Refrigerated ☒ DI VOA Frozen ☐ Soil Jar Frozen ☐

Rev. Nov 2016

Batch Summary

'Inonel'

Subcontracted Analyses

SC41491-01 (SB-30)
SC41491-02 (SB-7)
SC41491-03 (SB-29)
SC41491-04 (SB-5)
SC41491-05 (SB-26)
SC41491-06 (SB-20)
SC41491-07 (SB-21)
SC41491-08 (SB-22)
SC41491-13 (SB-28)
SC41491-14 (SB-11)
SC41491-15 (SB-23)

1719262

General Chemistry Parameters

SC41491-01 (SB-30)
SC41491-02 (SB-7)
SC41491-03 (SB-29)
SC41491-04 (SB-5)
SC41491-05 (SB-26)
SC41491-06 (SB-20)
SC41491-07 (SB-21)
SC41491-08 (SB-22)
SC41491-09 (SB-24)

1719263

General Chemistry Parameters

1719263-DUP1
1719263-DUP2
SC41491-10 (SB-25)
SC41491-11 (SB-10)
SC41491-12 (SB-27)
SC41491-13 (SB-28)
SC41491-14 (SB-11)
SC41491-15 (SB-23)

1719306

Volatile Organic Compounds

1719306-BLK1
1719306-BS1
1719306-BSD1
SC41491-01 (SB-30)
SC41491-02 (SB-7)
SC41491-05 (SB-26)
SC41491-08 (SB-22)

1719357

Volatile Organic Compounds

1719357-BLK1
1719357-BS1
1719357-BSD1

SC41491-04 (SB-5)
SC41491-06RE1 (SB-20)
SC41491-07RE1 (SB-21)
SC41491-10 (SB-25)
SC41491-11 (SB-10)
SC41491-12 (SB-27)
SC41491-13 (SB-28)
SC41491-14 (SB-11)
SC41491-15 (SB-23)
SC41491-16 (Trip Blank)

1719431

Volatile Organic Compounds

1719431-BLK1
1719431-BS1
1719431-BSD1
SC41491-05RE1 (SB-26)
SC41491-16RE1 (Trip Blank)

1719513

Volatile Organic Compounds

1719513-BLK1
1719513-BS1
1719513-BSD1
SC41491-05RE2 (SB-26)
SC41491-09 (SB-24)
SC41491-11RE1 (SB-10)

1719678

Volatile Organic Compounds

1719678-BLK1
1719678-BS1
1719678-BSD1
SC41491-02RE1 (SB-7)

1719679

Volatile Organic Compounds

1719679-BLK1
1719679-BS1
1719679-BSD1
SC41491-03 (SB-29)

409769A**Subcontracted Analyses**

BZ42372-BLK
BZ42372-DUP
BZ42372-LCS
BZ42372-MS
SC41491-01 (SB-30)
SC41491-02 (SB-7)
SC41491-03 (SB-29)
SC41491-04 (SB-5)
SC41491-05 (SB-26)
SC41491-06 (SB-20)
SC41491-07 (SB-21)
SC41491-08 (SB-22)
SC41491-15 (SB-23)

409770A**Subcontracted Analyses**

BZ41856-BLK
BZ41856-LCS
BZ41856-LCSD
BZ41856-MS
BZ41856-MSD
SC41491-01 (SB-30)
SC41491-02 (SB-7)
SC41491-03 (SB-29)
SC41491-04 (SB-5)
SC41491-05 (SB-26)
SC41491-06 (SB-20)
SC41491-07 (SB-21)
SC41491-08 (SB-22)
SC41491-13 (SB-28)
SC41491-14 (SB-11)
SC41491-15 (SB-23)

409827A**Subcontracted Analyses**

BZ42187-BLK
BZ42187-DUP
BZ42187-LCS
BZ42187-LCSD
BZ42187-MS
SC41491-01 (SB-30)
SC41491-02 (SB-7)
SC41491-03 (SB-29)
SC41491-04 (SB-5)

409828A**Subcontracted Analyses**

BZ40382-BLK
BZ40382-DUP
BZ40382-LCS
BZ40382-LCSD
BZ40382-MS

SC41491-05 (SB-26)
SC41491-06 (SB-20)
SC41491-07 (SB-21)
SC41491-08 (SB-22)
SC41491-15 (SB-23)

S708708**Volatile Organic Compounds**

S708708-CAL1
S708708-CAL2
S708708-CAL3
S708708-CAL4
S708708-CAL5
S708708-CAL6
S708708-CAL7
S708708-CAL8
S708708-CAL9
S708708-ICV1
S708708-LCV1
S708708-TUN1

S710089**Volatile Organic Compounds**

S710089-CCV1
S710089-TUN1

S710112**Volatile Organic Compounds**

S710112-CCV1
S710112-TUN1

S710150**Volatile Organic Compounds**

S710150-CCV1
S710150-TUN1

S710171**Volatile Organic Compounds**

S710171-CAL1
S710171-CAL2
S710171-CAL3
S710171-CAL4
S710171-CAL5
S710171-CAL6
S710171-CAL7
S710171-CAL8
S710171-CAL9
S710171-ICV1
S710171-LCV1
S710171-LCV2
S710171-LCV3
S710171-TUN1

S710205**Volatile Organic Compounds**

S710205-CCV1

S710205-TUN1

S710298**Volatile Organic Compounds**

S710298-CCV1

S710298-TUN1

S710300**Volatile Organic Compounds**

S710300-CCV1

S710300-TUN1

APPENDIX E

GROUNDWATER ANALYTICAL LABORATORY REPORT

Report Date:
27-Nov-17 17:47**Laboratory Report**
SC41581AECC Environmental Consulting
6308 Fly Road
East Syracuse, NY 13057
Attn: Rich McKennaProject: 1712 Erie St - Utica, NY
Project #: 17-217

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87936
Maine # MA138
New Hampshire # 2972/2538
New Jersey # MA011
New York # 11393
Pennsylvania # 68-04426/68-02924
Rhode Island # LAO00348
USDA # P330-15-00375
Vermont # VT-11393

Authorized by:

Nicole Leja
President

Eurofins Spectrum Analytical holds primary NELAC certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 49 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Spectrum Analytical, Inc.

Eurofins Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Eurofins Spectrum Analytical, Inc. is currently accredited for the specific method or analyte indicated. Please refer to our Quality web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Eurofins Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (PA-68-04426).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Sample Summary

Work Order: SC41581
Project: 1712 Erie St - Utica, NY
Project Number: 17-217

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SC41581-01	TW-6	Ground Water	13-Nov-17 09:22	14-Nov-17 09:10
SC41581-02	TW-7	Ground Water	13-Nov-17 11:03	14-Nov-17 09:10
SC41581-03	TW-9	Ground Water	13-Nov-17 11:57	14-Nov-17 09:10
SC41581-04	TW-10	Ground Water	13-Nov-17 12:36	14-Nov-17 09:10
SC41581-05	TW-11	Ground Water	13-Nov-17 13:41	14-Nov-17 09:10
SC41581-06	TW-8	Ground Water	13-Nov-17 14:41	14-Nov-17 09:10
SC41581-07	TW-5	Ground Water	13-Nov-17 15:42	14-Nov-17 09:10
SC41581-08	TW-12	Ground Water	13-Nov-17 16:06	14-Nov-17 09:10
SC41581-09	Trip Blank	Aqueous	13-Nov-17 00:00	14-Nov-17 09:10

CASE NARRATIVE:

Data has been reported to the RDL. This report includes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the detection limit are reported as "<" (less than) the detection limit in this report.

The samples were received 5.6 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group. If method or program required MS/MSD/Dup were not performed, sufficient sample was not provided to the laboratory.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8260C

Calibration:

1711037

Analyte quantified by quadratic equation type calibration.

1,1,1,2-Tetrachloroethane
1,2,3-Trichlorobenzene
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,2-Dibromo-3-chloropropane
1,3,5-Trichlorobenzene
1,3,5-Trimethylbenzene
1,3-Dichlorobenzene
2-Chlorotoluene
2-Hexanone (MBK)
4-Chlorotoluene
4-Isopropyltoluene
4-Methyl-2-pentanone (MIBK)
Bromodichloromethane
Bromoform
Carbon tetrachloride
cis-1,3-Dichloropropene
Dibromochloromethane
Ethyl tert-butyl ether
Ethylbenzene
Isopropylbenzene
m,p-Xylene
Naphthalene
n-Butylbenzene
n-Propylbenzene
o-Xylene
sec-Butylbenzene
Styrene
tert-Butylbenzene
trans-1,3-Dichloropropene
Vinyl chloride

SW846 8260C

Calibration:

1711037

This affected the following samples:

1719759-BLK1
1719759-BS1
1719759-BSD1
S710164-ICV1
S710339-CCV1
TW-10

1711046

Analyte quantified by quadratic equation type calibration.

1,2,3-Trichlorobenzene
1,2,4-Trichlorobenzene
1,2-Dibromo-3-chloropropane
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
cis-1,3-Dichloropropene
Naphthalene
trans-1,3-Dichloropropene
trans-1,4-Dichloro-2-butene

This affected the following samples:

1719532-BLK1
1719532-BS1
1719532-BSD1
S710225-ICV1
S710237-CCV1
Trip Blank
TW-11
TW-12
TW-5
TW-6
TW-7
TW-8
TW-9

Laboratory Control Samples:

1719532 BS/BSD

2,2-Dichloropropane percent recoveries (72/62) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Trip Blank
TW-11
TW-12
TW-5
TW-6
TW-7
TW-8
TW-9

1719532 BSD

Bromoform RPD 22% (20%) is outside individual acceptance criteria.

Isopropylbenzene RPD 21% (20%) is outside individual acceptance criteria.

SW846 8260C

Laboratory Control Samples:

1719532 BSD

m,p-Xylene RPD 22% (20%) is outside individual acceptance criteria.

Methylene chloride RPD 22% (20%) is outside individual acceptance criteria.

n-Propylbenzene RPD 21% (20%) is outside individual acceptance criteria.

trans-1,4-Dichloro-2-butene RPD 21% (20%) is outside individual acceptance criteria.

Samples:

S710237-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

2,2-Dichloropropane (-28.4%)

Acrylonitrile (-20.5%)

This affected the following samples:

1719532-BLK1

1719532-BS1

1719532-BSD1

Trip Blank

TW-11

TW-12

TW-5

TW-6

TW-7

TW-8

TW-9

S710339-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

2,2-Dichloropropane (28.0%)

This affected the following samples:

1719759-BLK1

1719759-BS1

1719759-BSD1

TW-10

SC41581-03 *TW-9*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SC41581-06 *TW-8*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SC41581-08 *TW-12*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Sample Acceptance Check Form

Client: AECC Environmental Consulting
Project: 1712 Erie St - Utica, NY / 17-217
Work Order: SC41581
Sample(s) received on: 11/14/2017

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	<u>Yes</u>	<u>No</u>	<u>N/A</u>
Were custody seals present?	☐	☒	☐
Were custody seals intact?	☐	☐	☒
Were samples received at a temperature of $\leq 6^{\circ}\text{C}$?	☒	☐	☐
Were samples cooled on ice upon transfer to laboratory representative?	☒	☐	☐
Were sample containers received intact?	☒	☐	☐
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☒	☐	☐
Were samples accompanied by a Chain of Custody document?	☒	☐	☐
Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☒	☐	☐
Did sample container labels agree with Chain of Custody document?	☒	☐	☐
Were samples received within method-specific holding times?	☒	☐	☐

Summary of Hits

Lab ID: SC41581-01

Client ID: TW-6

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	0.016		0.004	mg/l	SW6010C
Barium	0.151		0.002	mg/l	SW6010C
Chromium	0.006		0.001	mg/l	SW6010C
Lead	0.091		0.002	mg/l	SW6010C
Anthracene	0.16		0.10	ug/l	SW8270D (SIM)
Benz(a)anthracene	0.50		0.02	ug/l	SW8270D (SIM)
Benzo(a)pyrene	0.42		0.02	ug/l	SW8270D (SIM)
Benzo(b)fluoranthene	0.36		0.02	ug/l	SW8270D (SIM)
Benzo(ghi)perylene	0.26		0.10	ug/l	SW8270D (SIM)
Benzo(k)fluoranthene	0.34		0.02	ug/l	SW8270D (SIM)
Chrysene	0.41		0.02	ug/l	SW8270D (SIM)
Dibenz(a,h)anthracene	0.04		0.01	ug/l	SW8270D (SIM)
Fluoranthene	1.1		0.10	ug/l	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	0.26		0.02	ug/l	SW8270D (SIM)
Phenanthrene	0.64		0.07	ug/l	SW8270D (SIM)
Pyrene	0.93		0.10	ug/l	SW8270D (SIM)
Chloroform	0.47	J	1.00	µg/l	SW846 8260C
cis-1,2-Dichloroethene	20.1		1.00	µg/l	SW846 8260C
trans-1,2-Dichloroethene	0.44	J	1.00	µg/l	SW846 8260C
Trichloroethene	18.4		1.00	µg/l	SW846 8260C
Vinyl chloride	0.83	J	1.00	µg/l	SW846 8260C

Lab ID: SC41581-02

Client ID: TW-7

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	0.015		0.004	mg/l	SW6010C
Barium	0.381		0.002	mg/l	SW6010C
Chromium	0.008		0.001	mg/l	SW6010C
Lead	0.070		0.002	mg/l	SW6010C
2-Methylnaphthalene	0.19		0.10	ug/l	SW8270D (SIM)
Acenaphthene	0.20		0.10	ug/l	SW8270D (SIM)
Anthracene	0.11		0.10	ug/l	SW8270D (SIM)
Benz(a)anthracene	0.13		0.02	ug/l	SW8270D (SIM)
Benzo(a)pyrene	0.10		0.02	ug/l	SW8270D (SIM)
Benzo(b)fluoranthene	0.09		0.02	ug/l	SW8270D (SIM)
Benzo(k)fluoranthene	0.09		0.02	ug/l	SW8270D (SIM)
Chrysene	0.11		0.02	ug/l	SW8270D (SIM)
Dibenz(a,h)anthracene	0.01		0.01	ug/l	SW8270D (SIM)
Fluoranthene	0.36		0.10	ug/l	SW8270D (SIM)
Fluorene	0.21		0.10	ug/l	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	0.06		0.02	ug/l	SW8270D (SIM)
Naphthalene	1.0		0.10	ug/l	SW8270D (SIM)
Phenanthrene	0.54		0.07	ug/l	SW8270D (SIM)
Pyrene	0.29		0.10	ug/l	SW8270D (SIM)
Acetone	2.49	J	10.0	µg/l	SW846 8260C
cis-1,2-Dichloroethene	0.65	J	1.00	µg/l	SW846 8260C
Naphthalene	1.78		1.00	µg/l	SW846 8260C
Trichloroethene	17.9		1.00	µg/l	SW846 8260C

Lab ID: SC41581-03

Client ID: TW-9

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
cis-1,2-Dichloroethene	1650	D	100	µg/l	SW846 8260C
Trichloroethene	7520	D	100	µg/l	SW846 8260C

Lab ID: SC41581-05

Client ID: TW-11

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Benz(a)anthracene	0.08		0.02	ug/l	SW8270D (SIM)
Benzo(a)pyrene	0.06		0.02	ug/l	SW8270D (SIM)
Benzo(b)fluoranthene	0.06		0.02	ug/l	SW8270D (SIM)
Benzo(k)fluoranthene	0.06		0.02	ug/l	SW8270D (SIM)
Chrysene	0.07		0.02	ug/l	SW8270D (SIM)
Dibenz(a,h)anthracene	0.02		0.01	ug/l	SW8270D (SIM)
Fluoranthene	0.15		0.10	ug/l	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	0.04		0.02	ug/l	SW8270D (SIM)
Phenanthrene	0.12		0.07	ug/l	SW8270D (SIM)
Pyrene	0.13		0.10	ug/l	SW8270D (SIM)
cis-1,2-Dichloroethene	1.05		1.00	µg/l	SW846 8260C
Trichloroethene	10.6		1.00	µg/l	SW846 8260C

Lab ID: SC41581-06

Client ID: TW-8

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	0.007		0.004	mg/l	SW6010C
Barium	0.082		0.002	mg/l	SW6010C
Chromium	0.007		0.001	mg/l	SW6010C
Lead	0.006		0.002	mg/l	SW6010C
cis-1,2-Dichloroethene	159	D	10.0	µg/l	SW846 8260C
Trichloroethene	655	D	10.0	µg/l	SW846 8260C

Lab ID: SC41581-07

Client ID: TW-5

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Anthracene	0.24		0.10	ug/l	SW8270D (SIM)
Benz(a)anthracene	0.21		0.02	ug/l	SW8270D (SIM)
Benzo(a)pyrene	0.18		0.02	ug/l	SW8270D (SIM)
Benzo(b)fluoranthene	0.15		0.02	ug/l	SW8270D (SIM)
Benzo(k)fluoranthene	0.13		0.02	ug/l	SW8270D (SIM)
Chrysene	0.16		0.02	ug/l	SW8270D (SIM)
Dibenz(a,h)anthracene	0.02		0.01	ug/l	SW8270D (SIM)
Fluoranthene	0.49		0.10	ug/l	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	0.09		0.02	ug/l	SW8270D (SIM)
Phenanthrene	0.42		0.07	ug/l	SW8270D (SIM)
Pyrene	0.38		0.10	ug/l	SW8270D (SIM)
Acetone	4.91	J	10.0	µg/l	SW846 8260C
Benzene	1.31		1.00	µg/l	SW846 8260C
cis-1,2-Dichloroethene	0.57	J	1.00	µg/l	SW846 8260C
Toluene	0.42	J	1.00	µg/l	SW846 8260C

Lab ID: SC41581-08

Client ID: TW-12

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	0.048		0.004	mg/l	SW6010C
Barium	0.458		0.002	mg/l	SW6010C
Cadmium	0.004		0.001	mg/l	SW6010C
Chromium	0.092		0.001	mg/l	SW6010C
Lead	0.177		0.002	mg/l	SW6010C
Benz(a)anthracene	0.10		0.02	ug/l	SW8270D (SIM)
Benzo(a)pyrene	0.08		0.02	ug/l	SW8270D (SIM)
Benzo(b)fluoranthene	0.08		0.02	ug/l	SW8270D (SIM)
Benzo(k)fluoranthene	0.07		0.02	ug/l	SW8270D (SIM)
Chrysene	0.08		0.02	ug/l	SW8270D (SIM)
Dibenz(a,h)anthracene	0.02		0.01	ug/l	SW8270D (SIM)
Fluoranthene	0.19		0.11	ug/l	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	0.05		0.02	ug/l	SW8270D (SIM)
Phenanthrene	0.12		0.08	ug/l	SW8270D (SIM)
Pyrene	0.17		0.11	ug/l	SW8270D (SIM)
cis-1,2-Dichloroethene	12.8	D	10.0	µg/l	SW846 8260C
Trichloroethene	587	D	10.0	µg/l	SW846 8260C

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Please note that because there are no reporting limits associated with hazardous waste characterizations or micro analyses, this summary does not include hits from these analyses if included in this work order.

Sample Identification

TW-6

SC41581-01

Client Project #

17-217

Matrix

Ground Water

Collection Date/Time

13-Nov-17 09:22

Received

14-Nov-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5030 Water MS</u>													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00	0.53	1	SW846 8260C	20-Nov-17	21-Nov-17	GMA	1719532	X
67-64-1	Acetone	< 10.0	U	µg/l	10.0	0.80	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.50	U	µg/l	0.50	0.47	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50	U	µg/l	0.50	0.42	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00	U	µg/l	2.00	0.90	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00	U	µg/l	2.00	1.07	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.00	U	µg/l	1.00	0.41	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00	U	µg/l	2.00	0.41	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00	U	µg/l	1.00	0.44	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00	U	µg/l	1.00	0.25	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00	U	µg/l	2.00	0.59	1	"	"	"	"	"	X
67-66-3	Chloroform	0.47	J	µg/l	1.00	0.33	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00	U	µg/l	2.00	0.37	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00	0.86	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50	U	µg/l	0.50	0.32	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50	0.20	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.27	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00	0.58	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00	U	µg/l	1.00	0.69	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	20.1		µg/l	1.00	0.33	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	0.44	J	µg/l	1.00	0.38	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.00	U	µg/l	1.00	0.21	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.00	U	µg/l	1.00	0.58	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.36	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.35	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.50	U	µg/l	0.50	0.47	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00	U	µg/l	2.00	0.53	1	"	"	"	"	"	X

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Sample Identification

TW-6

SC41581-01

Client Project #

17-217

Matrix

Ground Water

Collection Date/Time

13-Nov-17 09:22

Received

14-Nov-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
98-82-8	Isopropylbenzene	< 1.00	U	µg/l	1.00	0.36	1	SW846 8260C	20-Nov-17	21-Nov-17	GMA	1719532	X
99-87-6	4-Isopropyltoluene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00	0.52	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00	U	µg/l	2.00	0.66	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.00	U	µg/l	1.00	0.35	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00	U	µg/l	1.00	0.40	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50	0.33	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00	U	µg/l	1.00	0.57	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00	0.51	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
79-01-6	Trichloroethene	18.4		µg/l	1.00	0.50	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00	0.49	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.43	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	0.83	J	µg/l	1.00	0.47	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00	U	µg/l	2.00	0.38	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.00	U	µg/l	2.00	1.06	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.00	U	µg/l	1.00	0.37	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.00	U	µg/l	1.00	0.49	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0	U	µg/l	10.0	5.90	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0	U	µg/l	20.0	11.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.00	U	µg/l	5.00	0.82	1	"	"	"	"	"	X
64-17-5	Ethanol	< 200	U	µg/l	200	30.9	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	100		70-130 %	"	"	"	"	"
2037-26-5	Toluene-d8	103		70-130 %	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	105		70-130 %	"	"	"	"	"
1868-53-7	Dibromofluoromethane	102		70-130 %	"	"	"	"	"

Subcontracted AnalysesSubcontracted AnalysesPrepared by method 410136-

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

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Sample Identification

TW-6

SC41581-01

Client Project #

17-217

Matrix

Ground Water

Collection Date/Time

13-Nov-17 09:22

Received

14-Nov-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Subcontracted AnalysesSubcontracted AnalysesPrepared by method 410136-*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

7440-38-2	Arsenic	0.016		mg/l	0.004	0.004	1	SW6010C	17-Nov-17	18-Nov-17 14:54	11301	410136A	
7440-39-3	Barium	0.151		mg/l	0.002	0.002	1	"	"	"	"	"	
7440-43-9	Cadmium	< 0.001		mg/l	0.001	0.001	1	"	"	"	"	"	
7440-47-3	Chromium	0.006		mg/l	0.001	0.001	1	"	"	"	"	"	
7439-92-1	Lead	0.091		mg/l	0.002	0.002	1	"	"	"	"	"	
7782-49-2	Selenium	< 0.010		mg/l	0.010	0.010	1	"	"	"	"	"	
7440-22-4	Silver	< 0.001		mg/l	0.001	0.001	1	"	"	"	"	"	

Prepared by method 410262-*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

7439-97-6	Mercury	< 0.0002		mg/l	0.0002	0.0002	1	SW7470A	20-Nov-17	21-Nov-17 08:18	11301	410262A	
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Subcontracted AnalysesPrepared by method 410104-SW8270*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

91-57-6	2-Methylnaphthalene	< 0.10		ug/l	0.10	0.10	1	SW8270D (SIM)	17-Nov-17	21-Nov-17 11:16	11301	410104A	
83-32-9	Acenaphthene	< 0.10		ug/l	0.10	0.10	1	"	"	"	"	"	
208-96-8	Acenaphthylene	< 0.10		ug/l	0.10	0.10	1	"	"	"	"	"	
120-12-7	Anthracene	0.16		ug/l	0.10	0.10	1	"	"	"	"	"	
56-55-3	Benz(a)anthracene	0.50		ug/l	0.02	0.02	1	"	"	"	"	"	
50-32-8	Benzo(a)pyrene	0.42		ug/l	0.02	0.02	1	"	"	"	"	"	
205-99-2	Benzo(b)fluoranthene	0.36		ug/l	0.02	0.02	1	"	"	"	"	"	
191-24-2	Benzo(ghi)perylene	0.26		ug/l	0.10	0.10	1	"	"	"	"	"	
207-08-9	Benzo(k)fluoranthene	0.34		ug/l	0.02	0.02	1	"	"	"	"	"	
218-01-9	Chrysene	0.41		ug/l	0.02	0.02	1	"	"	"	"	"	
53-70-3	Dibenz(a,h)anthracene	0.04		ug/l	0.01	0.01	1	"	"	"	"	"	
206-44-0	Fluoranthene	1.1		ug/l	0.10	0.10	1	"	"	"	"	"	
86-73-7	Fluorene	< 0.10		ug/l	0.10	0.10	1	"	"	"	"	"	
193-39-5	Indeno(1,2,3-cd)pyrene	0.26		ug/l	0.02	0.02	1	"	"	"	"	"	
91-20-3	Naphthalene	< 0.10		ug/l	0.10	0.10	1	"	"	"	"	"	
85-01-8	Phenanthrene	0.64		ug/l	0.07	0.07	1	"	"	"	"	"	
129-00-0	Pyrene	0.93		ug/l	0.10	0.10	1	"	"	"	"	"	

Surrogate recoveries:

321-60-8	% 2-Fluorobiphenyl	62			30-130 %			"	"	"	"	"	
4165-60-0	% Nitrobenzene-d5	66			30-130 %			"	"	"	"	"	
98904-43-9	% Terphenyl-d14	37			30-130 %			"	"	"	"	"	

Sample Identification

TW-7

SC41581-02

Client Project #

17-217

Matrix

Ground Water

Collection Date/Time

13-Nov-17 11:03

Received

14-Nov-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5030 Water MS</u>													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00	0.53	1	SW846 8260C	20-Nov-17	21-Nov-17	GMA	1719532	X
67-64-1	Acetone	2.49	J	µg/l	10.0	0.80	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.50	U	µg/l	0.50	0.47	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50	U	µg/l	0.50	0.42	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00	U	µg/l	2.00	0.90	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00	U	µg/l	2.00	1.07	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.00	U	µg/l	1.00	0.41	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00	U	µg/l	2.00	0.41	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00	U	µg/l	1.00	0.44	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00	U	µg/l	1.00	0.25	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00	U	µg/l	2.00	0.59	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00	U	µg/l	2.00	0.37	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00	0.86	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50	U	µg/l	0.50	0.32	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50	0.20	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.27	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00	0.58	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00	U	µg/l	1.00	0.69	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	0.65	J	µg/l	1.00	0.33	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.00	U	µg/l	1.00	0.21	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.00	U	µg/l	1.00	0.58	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.36	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.35	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.50	U	µg/l	0.50	0.47	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00	U	µg/l	2.00	0.53	1	"	"	"	"	"	X

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Sample Identification

TW-7

SC41581-02

Client Project #

17-217

Matrix

Ground Water

Collection Date/Time

13-Nov-17 11:03

Received

14-Nov-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
98-82-8	Isopropylbenzene	< 1.00	U	µg/l	1.00	0.36	1	SW846 8260C	20-Nov-17	21-Nov-17	GMA	1719532	X
99-87-6	4-Isopropyltoluene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00	0.52	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00	U	µg/l	2.00	0.66	1	"	"	"	"	"	X
91-20-3	Naphthalene	1.78		µg/l	1.00	0.35	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00	U	µg/l	1.00	0.40	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50	0.33	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00	U	µg/l	1.00	0.57	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00	0.51	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
79-01-6	Trichloroethene	17.9		µg/l	1.00	0.50	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00	0.49	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.43	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00	U	µg/l	1.00	0.47	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00	U	µg/l	2.00	0.38	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.00	U	µg/l	2.00	1.06	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.00	U	µg/l	1.00	0.37	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.00	U	µg/l	1.00	0.49	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0	U	µg/l	10.0	5.90	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0	U	µg/l	20.0	11.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.00	U	µg/l	5.00	0.82	1	"	"	"	"	"	X
64-17-5	Ethanol	< 200	U	µg/l	200	30.9	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	100		70-130 %	"	"	"	"	"
2037-26-5	Toluene-d8	103		70-130 %	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	103		70-130 %	"	"	"	"	"
1868-53-7	Dibromofluoromethane	102		70-130 %	"	"	"	"	"

Subcontracted AnalysesSubcontracted AnalysesPrepared by method 410136-

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

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Sample Identification

TW-7

SC41581-02

Client Project #

17-217

Matrix

Ground Water

Collection Date/Time

13-Nov-17 11:03

Received

14-Nov-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Subcontracted AnalysesSubcontracted AnalysesPrepared by method 410136-*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

7440-38-2	Arsenic	0.015		mg/l	0.004	0.004	1	SW6010C	17-Nov-17	18-Nov-17 14:57	11301	410136A	
7440-39-3	Barium	0.381		mg/l	0.002	0.002	1	"	"	"	"	"	
7440-43-9	Cadmium	< 0.001		mg/l	0.001	0.001	1	"	"	"	"	"	
7440-47-3	Chromium	0.008		mg/l	0.001	0.001	1	"	"	"	"	"	
7439-92-1	Lead	0.070		mg/l	0.002	0.002	1	"	"	"	"	"	
7782-49-2	Selenium	< 0.010		mg/l	0.010	0.010	1	"	"	"	"	"	
7440-22-4	Silver	< 0.001		mg/l	0.001	0.001	1	"	"	"	"	"	

Prepared by method 410262-*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

7439-97-6	Mercury	< 0.0002		mg/l	0.0002	0.0002	1	SW7470A	20-Nov-17	21-Nov-17 08:21	11301	410262A	
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Subcontracted AnalysesPrepared by method 410104-SW8270*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

91-57-6	2-Methylnaphthalene	0.19		ug/l	0.10	0.10	1	SW8270D (SIM)	17-Nov-17	21-Nov-17 11:43	11301	410104A	
83-32-9	Acenaphthene	0.20		ug/l	0.10	0.10	1	"	"	"	"	"	
208-96-8	Acenaphthylene	< 0.10		ug/l	0.10	0.10	1	"	"	"	"	"	
120-12-7	Anthracene	0.11		ug/l	0.10	0.10	1	"	"	"	"	"	
56-55-3	Benz(a)anthracene	0.13		ug/l	0.02	0.02	1	"	"	"	"	"	
50-32-8	Benzo(a)pyrene	0.10		ug/l	0.02	0.02	1	"	"	"	"	"	
205-99-2	Benzo(b)fluoranthene	0.09		ug/l	0.02	0.02	1	"	"	"	"	"	
191-24-2	Benzo(ghi)perylene	< 0.10		ug/l	0.10	0.10	1	"	"	"	"	"	
207-08-9	Benzo(k)fluoranthene	0.09		ug/l	0.02	0.02	1	"	"	"	"	"	
218-01-9	Chrysene	0.11		ug/l	0.02	0.02	1	"	"	"	"	"	
53-70-3	Dibenz(a,h)anthracene	0.01		ug/l	0.01	0.01	1	"	"	"	"	"	
206-44-0	Fluoranthene	0.36		ug/l	0.10	0.10	1	"	"	"	"	"	
86-73-7	Fluorene	0.21		ug/l	0.10	0.10	1	"	"	"	"	"	
193-39-5	Indeno(1,2,3-cd)pyrene	0.06		ug/l	0.02	0.02	1	"	"	"	"	"	
91-20-3	Naphthalene	1.0		ug/l	0.10	0.10	1	"	"	"	"	"	
85-01-8	Phenanthrene	0.54		ug/l	0.07	0.07	1	"	"	"	"	"	
129-00-0	Pyrene	0.29		ug/l	0.10	0.10	1	"	"	"	"	"	

Surrogate recoveries:

321-60-8	% 2-Fluorobiphenyl	62			30-130 %		"	"	"	"	"	"	
4165-60-0	% Nitrobenzene-d5	61			30-130 %		"	"	"	"	"	"	
98904-43-9	% Terphenyl-d14	78			30-130 %		"	"	"	"	"	"	

Sample Identification

TW-9

SC41581-03

Client Project #

17-217

Matrix

Ground Water

Collection Date/Time

13-Nov-17 11:57

Received

14-Nov-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260			GS1										
Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 100	U, D	µg/l	100	53.2	100	SW846 8260C	20-Nov-17	21-Nov-17	GMA	1719532	X
67-64-1	Acetone	< 1000	U, D	µg/l	1000	80.4	100	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 50.0	U, D	µg/l	50.0	46.6	100	"	"	"	"	"	X
71-43-2	Benzene	< 100	U, D	µg/l	100	28.4	100	"	"	"	"	"	X
108-86-1	Bromobenzene	< 100	U, D	µg/l	100	33.2	100	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 100	U, D	µg/l	100	33.8	100	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 50.0	U, D	µg/l	50.0	41.7	100	"	"	"	"	"	X
75-25-2	Bromoform	< 100	U, D	µg/l	100	42.5	100	"	"	"	"	"	X
74-83-9	Bromomethane	< 200	U, D	µg/l	200	89.6	100	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 200	U, D	µg/l	200	107	100	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 100	U, D	µg/l	100	41.2	100	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 100	U, D	µg/l	100	32.6	100	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 100	U, D	µg/l	100	31.5	100	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 200	U, D	µg/l	200	41.2	100	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 100	U, D	µg/l	100	43.7	100	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 100	U, D	µg/l	100	24.9	100	"	"	"	"	"	X
75-00-3	Chloroethane	< 200	U, D	µg/l	200	58.8	100	"	"	"	"	"	X
67-66-3	Chloroform	< 100	U, D	µg/l	100	32.6	100	"	"	"	"	"	X
74-87-3	Chloromethane	< 200	U, D	µg/l	200	36.8	100	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 100	U, D	µg/l	100	31.6	100	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 100	U, D	µg/l	100	31.6	100	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 200	U, D	µg/l	200	86.3	100	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 50.0	U, D	µg/l	50.0	31.7	100	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 50.0	U, D	µg/l	50.0	20.2	100	"	"	"	"	"	X
74-95-3	Dibromomethane	< 100	U, D	µg/l	100	30.9	100	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 100	U, D	µg/l	100	27.7	100	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 100	U, D	µg/l	100	31.4	100	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 100	U, D	µg/l	100	27.2	100	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 200	U, D	µg/l	200	58.4	100	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 100	U, D	µg/l	100	32.3	100	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 100	U, D	µg/l	100	27.7	100	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 100	U, D	µg/l	100	69.3	100	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	1,650	D	µg/l	100	32.7	100	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 100	U, D	µg/l	100	37.7	100	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 100	U, D	µg/l	100	29.2	100	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 100	U, D	µg/l	100	21.4	100	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 100	U, D	µg/l	100	41.8	100	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 100	U, D	µg/l	100	57.8	100	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 50.0	U, D	µg/l	50.0	35.9	100	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 50.0	U, D	µg/l	50.0	34.7	100	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 100	U, D	µg/l	100	32.9	100	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 50.0	U, D	µg/l	50.0	47.0	100	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 200	U, D	µg/l	200	52.8	100	"	"	"	"	"	X

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Sample Identification

TW-9

SC41581-03

Client Project #

17-217

Matrix

Ground Water

Collection Date/Time

13-Nov-17 11:57

Received

14-Nov-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260				GS1									
98-82-8	Isopropylbenzene	< 100	U, D	µg/l	100	36.0	100	SW846 8260C	20-Nov-17	21-Nov-17	GMA	1719532	X
99-87-6	4-Isopropyltoluene	< 100	U, D	µg/l	100	27.9	100	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 100	U, D	µg/l	100	23.7	100	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 200	U, D	µg/l	200	51.5	100	"	"	"	"	"	X
75-09-2	Methylene chloride	< 200	U, D	µg/l	200	66.1	100	"	"	"	"	"	X
91-20-3	Naphthalene	< 100	U, D	µg/l	100	35.1	100	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 100	U, D	µg/l	100	34.4	100	"	"	"	"	"	X
100-42-5	Styrene	< 100	U, D	µg/l	100	40.5	100	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 100	U, D	µg/l	100	37.8	100	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 50.0	U, D	µg/l	50.0	33.0	100	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 100	U, D	µg/l	100	57.0	100	"	"	"	"	"	X
108-88-3	Toluene	< 100	U, D	µg/l	100	29.9	100	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 100	U, D	µg/l	100	37.7	100	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 100	U, D	µg/l	100	37.8	100	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 100	U, D	µg/l	100	29.6	100	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 100	U, D	µg/l	100	50.9	100	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 100	U, D	µg/l	100	33.0	100	"	"	"	"	"	X
79-01-6	Trichloroethene	7,520	D	µg/l	100	49.7	100	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 100	U, D	µg/l	100	48.7	100	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 100	U, D	µg/l	100	29.2	100	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 100	U, D	µg/l	100	35.5	100	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 100	U, D	µg/l	100	43.1	100	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 100	U, D	µg/l	100	47.2	100	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 200	U, D	µg/l	200	38.0	100	"	"	"	"	"	X
95-47-6	o-Xylene	< 100	U, D	µg/l	100	28.3	100	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 200	U, D	µg/l	200	106	100	"	"	"	"	"	
60-29-7	Ethyl ether	< 100	U, D	µg/l	100	37.4	100	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 100	U, D	µg/l	100	49.3	100	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 100	U, D	µg/l	100	33.2	100	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 100	U, D	µg/l	100	28.6	100	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 1000	U, D	µg/l	1000	590	100	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 2000	U, D	µg/l	2000	1140	100	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 500	U, D	µg/l	500	82.1	100	"	"	"	"	"	X
64-17-5	Ethanol	< 20000	U, D	µg/l	20000	3090	100	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	102			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	102			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	101			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	101			70-130 %			"	"	"	"	"	

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Sample Identification

TW-10

SC41581-04

Client Project #

17-217

Matrix

Ground Water

Collection Date/Time

13-Nov-17 12:36

Received

14-Nov-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5030 Water MS</u>													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00	0.53	1	SW846 8260C	27-Nov-17	27-Nov-17	GMA	1719759	X
67-64-1	Acetone	< 10.0	U	µg/l	10.0	0.80	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.50	U	µg/l	0.50	0.47	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50	U	µg/l	0.50	0.42	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00	U	µg/l	2.00	0.90	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00	U	µg/l	2.00	1.07	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.00	U	µg/l	1.00	0.41	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00	U	µg/l	2.00	0.41	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00	U	µg/l	1.00	0.44	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00	U	µg/l	1.00	0.25	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00	U	µg/l	2.00	0.59	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00	U	µg/l	2.00	0.37	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00	0.86	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50	U	µg/l	0.50	0.32	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50	0.20	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.27	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00	0.58	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00	U	µg/l	1.00	0.69	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.00	U	µg/l	1.00	0.21	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.00	U	µg/l	1.00	0.58	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.36	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.35	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.50	U	µg/l	0.50	0.47	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00	U	µg/l	2.00	0.53	1	"	"	"	"	"	X

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Sample Identification

TW-10

SC41581-04

Client Project #

17-217

Matrix

Ground Water

Collection Date/Time

13-Nov-17 12:36

Received

14-Nov-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
98-82-8	Isopropylbenzene	< 1.00	U	µg/l	1.00	0.36	1	SW846 8260C	27-Nov-17	27-Nov-17	GMA	1719759	X
99-87-6	4-Isopropyltoluene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00	0.52	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00	U	µg/l	2.00	0.66	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.00	U	µg/l	1.00	0.35	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00	U	µg/l	1.00	0.40	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50	0.33	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00	U	µg/l	1.00	0.57	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00	0.51	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.00	U	µg/l	1.00	0.50	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00	0.49	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.43	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00	U	µg/l	1.00	0.47	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00	U	µg/l	2.00	0.38	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.00	U	µg/l	2.00	1.06	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.00	U	µg/l	1.00	0.37	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.00	U	µg/l	1.00	0.49	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0	U	µg/l	10.0	5.90	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0	U	µg/l	20.0	11.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.00	U	µg/l	5.00	0.82	1	"	"	"	"	"	X
64-17-5	Ethanol	< 200	U	µg/l	200	30.9	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	89		70-130 %		"	"	"	"	"
2037-26-5	Toluene-d8	100		70-130 %		"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	105		70-130 %		"	"	"	"	"
1868-53-7	Dibromofluoromethane	117		70-130 %		"	"	"	"	"

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Sample Identification

TW-11

SC41581-05

Client Project #

17-217

Matrix

Ground Water

Collection Date/Time

13-Nov-17 13:41

Received

14-Nov-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5030 Water MS</u>													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00	0.53	1	SW846 8260C	20-Nov-17	21-Nov-17	GMA	1719532	X
67-64-1	Acetone	< 10.0	U	µg/l	10.0	0.80	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.50	U	µg/l	0.50	0.47	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50	U	µg/l	0.50	0.42	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00	U	µg/l	2.00	0.90	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00	U	µg/l	2.00	1.07	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.00	U	µg/l	1.00	0.41	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00	U	µg/l	2.00	0.41	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00	U	µg/l	1.00	0.44	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00	U	µg/l	1.00	0.25	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00	U	µg/l	2.00	0.59	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00	U	µg/l	2.00	0.37	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00	0.86	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50	U	µg/l	0.50	0.32	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50	0.20	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.27	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00	0.58	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00	U	µg/l	1.00	0.69	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	1.05		µg/l	1.00	0.33	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.00	U	µg/l	1.00	0.21	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.00	U	µg/l	1.00	0.58	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.36	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.35	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.50	U	µg/l	0.50	0.47	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00	U	µg/l	2.00	0.53	1	"	"	"	"	"	X

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Sample Identification

TW-11

SC41581-05

Client Project #

17-217

Matrix

Ground Water

Collection Date/Time

13-Nov-17 13:41

Received

14-Nov-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
98-82-8	Isopropylbenzene	< 1.00	U	µg/l	1.00	0.36	1	SW846 8260C	20-Nov-17	21-Nov-17	GMA	1719532	X
99-87-6	4-Isopropyltoluene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00	0.52	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00	U	µg/l	2.00	0.66	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.00	U	µg/l	1.00	0.35	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00	U	µg/l	1.00	0.40	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50	0.33	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00	U	µg/l	1.00	0.57	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00	0.51	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
79-01-6	Trichloroethene	10.6		µg/l	1.00	0.50	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00	0.49	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.43	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00	U	µg/l	1.00	0.47	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00	U	µg/l	2.00	0.38	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.00	U	µg/l	2.00	1.06	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.00	U	µg/l	1.00	0.37	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.00	U	µg/l	1.00	0.49	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0	U	µg/l	10.0	5.90	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0	U	µg/l	20.0	11.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 5.00	U	µg/l	5.00	0.82	1	"	"	"	"	"	X
64-17-5	Ethanol	< 200	U	µg/l	200	30.9	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	101		70-130 %	"	"	"	"	"
2037-26-5	Toluene-d8	105		70-130 %	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	103		70-130 %	"	"	"	"	"
1868-53-7	Dibromofluoromethane	101		70-130 %	"	"	"	"	"

Subcontracted AnalysesSubcontracted AnalysesPrepared by method 410104-SW8270

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

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Sample Identification

TW-11

SC41581-05

Client Project #

17-217

Matrix

Ground Water

Collection Date/Time

13-Nov-17 13:41

Received

14-Nov-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Subcontracted AnalysesSubcontracted AnalysesPrepared by method 410104-SW8270*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

91-57-6	2-Methylnaphthalene	< 0.10		ug/l	0.10	0.10	1	SW8270D (SIM)	17-Nov-17	21-Nov-17 22:57	11301	410104A	
83-32-9	Acenaphthene	< 0.10		ug/l	0.10	0.10	1	"	"	"	"	"	
208-96-8	Acenaphthylene	< 0.10		ug/l	0.10	0.10	1	"	"	"	"	"	
120-12-7	Anthracene	< 0.10		ug/l	0.10	0.10	1	"	"	"	"	"	
56-55-3	Benz(a)anthracene	0.08		ug/l	0.02	0.02	1	"	"	"	"	"	
50-32-8	Benzo(a)pyrene	0.06		ug/l	0.02	0.02	1	"	"	"	"	"	
205-99-2	Benzo(b)fluoranthene	0.06		ug/l	0.02	0.02	1	"	"	"	"	"	
191-24-2	Benzo(ghi)perylene	< 0.10		ug/l	0.10	0.10	1	"	"	"	"	"	
207-08-9	Benzo(k)fluoranthene	0.06		ug/l	0.02	0.02	1	"	"	"	"	"	
218-01-9	Chrysene	0.07		ug/l	0.02	0.02	1	"	"	"	"	"	
53-70-3	Dibenz(a,h)anthracene	0.02		ug/l	0.01	0.01	1	"	"	"	"	"	
206-44-0	Fluoranthene	0.15		ug/l	0.10	0.10	1	"	"	"	"	"	
86-73-7	Fluorene	< 0.10		ug/l	0.10	0.10	1	"	"	"	"	"	
193-39-5	Indeno(1,2,3-cd)pyrene	0.04		ug/l	0.02	0.02	1	"	"	"	"	"	
91-20-3	Naphthalene	< 0.10		ug/l	0.10	0.10	1	"	"	"	"	"	
85-01-8	Phenanthrene	0.12		ug/l	0.07	0.07	1	"	"	"	"	"	
129-00-0	Pyrene	0.13		ug/l	0.10	0.10	1	"	"	"	"	"	

Surrogate recoveries:

321-60-8	% 2-Fluorobiphenyl	64			30-130 %			"	"	"	"	"	
4165-60-0	% Nitrobenzene-d5	74			30-130 %			"	"	"	"	"	
98904-43-9	% Terphenyl-d14	68			30-130 %			"	"	"	"	"	

Sample Identification

TW-8

SC41581-06

Client Project #

17-217

Matrix

Ground Water

Collection Date/Time

13-Nov-17 14:41

Received

14-Nov-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260			GS1										
Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 10.0	U, D	µg/l	10.0	5.32	10	SW846 8260C	20-Nov-17	21-Nov-17	GMA	1719532	X
67-64-1	Acetone	< 100	U, D	µg/l	100	8.04	10	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 5.00	U, D	µg/l	5.00	4.66	10	"	"	"	"	"	X
71-43-2	Benzene	< 10.0	U, D	µg/l	10.0	2.84	10	"	"	"	"	"	X
108-86-1	Bromobenzene	< 10.0	U, D	µg/l	10.0	3.32	10	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 10.0	U, D	µg/l	10.0	3.38	10	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 5.00	U, D	µg/l	5.00	4.17	10	"	"	"	"	"	X
75-25-2	Bromoform	< 10.0	U, D	µg/l	10.0	4.25	10	"	"	"	"	"	X
74-83-9	Bromomethane	< 20.0	U, D	µg/l	20.0	8.96	10	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 20.0	U, D	µg/l	20.0	10.7	10	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 10.0	U, D	µg/l	10.0	4.12	10	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 10.0	U, D	µg/l	10.0	3.26	10	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 10.0	U, D	µg/l	10.0	3.15	10	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 20.0	U, D	µg/l	20.0	4.12	10	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 10.0	U, D	µg/l	10.0	4.37	10	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 10.0	U, D	µg/l	10.0	2.49	10	"	"	"	"	"	X
75-00-3	Chloroethane	< 20.0	U, D	µg/l	20.0	5.88	10	"	"	"	"	"	X
67-66-3	Chloroform	< 10.0	U, D	µg/l	10.0	3.26	10	"	"	"	"	"	X
74-87-3	Chloromethane	< 20.0	U, D	µg/l	20.0	3.68	10	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 10.0	U, D	µg/l	10.0	3.16	10	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 10.0	U, D	µg/l	10.0	3.16	10	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 20.0	U, D	µg/l	20.0	8.63	10	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 5.00	U, D	µg/l	5.00	3.17	10	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 5.00	U, D	µg/l	5.00	2.02	10	"	"	"	"	"	X
74-95-3	Dibromomethane	< 10.0	U, D	µg/l	10.0	3.09	10	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 10.0	U, D	µg/l	10.0	2.77	10	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 10.0	U, D	µg/l	10.0	3.14	10	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 10.0	U, D	µg/l	10.0	2.72	10	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 20.0	U, D	µg/l	20.0	5.84	10	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 10.0	U, D	µg/l	10.0	3.23	10	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 10.0	U, D	µg/l	10.0	2.77	10	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 10.0	U, D	µg/l	10.0	6.93	10	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	159	D	µg/l	10.0	3.27	10	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 10.0	U, D	µg/l	10.0	3.77	10	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 10.0	U, D	µg/l	10.0	2.92	10	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 10.0	U, D	µg/l	10.0	2.14	10	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 10.0	U, D	µg/l	10.0	4.18	10	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 10.0	U, D	µg/l	10.0	5.78	10	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 5.00	U, D	µg/l	5.00	3.59	10	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 5.00	U, D	µg/l	5.00	3.47	10	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 10.0	U, D	µg/l	10.0	3.29	10	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 5.00	U, D	µg/l	5.00	4.70	10	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 20.0	U, D	µg/l	20.0	5.28	10	"	"	"	"	"	X

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Sample Identification

TW-8

SC41581-06

Client Project #

17-217

Matrix

Ground Water

Collection Date/Time

13-Nov-17 14:41

Received

14-Nov-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260				GS1									
98-82-8	Isopropylbenzene	< 10.0	U, D	µg/l	10.0	3.60	10	SW846 8260C	20-Nov-17	21-Nov-17	GMA	1719532	X
99-87-6	4-Isopropyltoluene	< 10.0	U, D	µg/l	10.0	2.79	10	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 10.0	U, D	µg/l	10.0	2.37	10	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 20.0	U, D	µg/l	20.0	5.15	10	"	"	"	"	"	X
75-09-2	Methylene chloride	< 20.0	U, D	µg/l	20.0	6.61	10	"	"	"	"	"	X
91-20-3	Naphthalene	< 10.0	U, D	µg/l	10.0	3.51	10	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 10.0	U, D	µg/l	10.0	3.44	10	"	"	"	"	"	X
100-42-5	Styrene	< 10.0	U, D	µg/l	10.0	4.05	10	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 10.0	U, D	µg/l	10.0	3.78	10	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.00	U, D	µg/l	5.00	3.30	10	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 10.0	U, D	µg/l	10.0	5.70	10	"	"	"	"	"	X
108-88-3	Toluene	< 10.0	U, D	µg/l	10.0	2.99	10	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 10.0	U, D	µg/l	10.0	3.77	10	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 10.0	U, D	µg/l	10.0	3.78	10	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 10.0	U, D	µg/l	10.0	2.96	10	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 10.0	U, D	µg/l	10.0	5.09	10	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 10.0	U, D	µg/l	10.0	3.30	10	"	"	"	"	"	X
79-01-6	Trichloroethene	655	D	µg/l	10.0	4.97	10	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 10.0	U, D	µg/l	10.0	4.87	10	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 10.0	U, D	µg/l	10.0	2.92	10	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 10.0	U, D	µg/l	10.0	3.55	10	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 10.0	U, D	µg/l	10.0	4.31	10	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 10.0	U, D	µg/l	10.0	4.72	10	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 20.0	U, D	µg/l	20.0	3.80	10	"	"	"	"	"	X
95-47-6	o-Xylene	< 10.0	U, D	µg/l	10.0	2.83	10	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 20.0	U, D	µg/l	20.0	10.6	10	"	"	"	"	"	
60-29-7	Ethyl ether	< 10.0	U, D	µg/l	10.0	3.74	10	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 10.0	U, D	µg/l	10.0	4.93	10	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 10.0	U, D	µg/l	10.0	3.32	10	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 10.0	U, D	µg/l	10.0	2.86	10	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 100	U, D	µg/l	100	59.0	10	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 200	U, D	µg/l	200	114	10	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 50.0	U, D	µg/l	50.0	8.21	10	"	"	"	"	"	X
64-17-5	Ethanol	< 2000	U, D	µg/l	2000	309	10	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	101		70-130 %	"	"	"	"	"
2037-26-5	Toluene-d8	101		70-130 %	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	103		70-130 %	"	"	"	"	"
1868-53-7	Dibromofluoromethane	101		70-130 %	"	"	"	"	"

Subcontracted AnalysesSubcontracted AnalysesPrepared by method 410136-

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

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Sample Identification

TW-8

SC41581-06

Client Project #

17-217

Matrix

Ground Water

Collection Date/Time

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Received

14-Nov-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Subcontracted AnalysesSubcontracted AnalysesPrepared by method 410136-*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

7440-38-2	Arsenic	0.007		mg/l	0.004	0.004	1	SW6010C	17-Nov-17	18-Nov-17 14:16	11301	410136A	
7440-39-3	Barium	0.082		mg/l	0.002	0.002	1	"	"	"	"	"	
7440-43-9	Cadmium	< 0.001		mg/l	0.001	0.001	1	"	"	"	"	"	
7440-47-3	Chromium	0.007		mg/l	0.001	0.001	1	"	"	"	"	"	
7439-92-1	Lead	0.006		mg/l	0.002	0.002	1	"	"	"	"	"	
7782-49-2	Selenium	< 0.010		mg/l	0.010	0.010	1	"	"	"	"	"	
7440-22-4	Silver	< 0.001		mg/l	0.001	0.001	1	"	"	"	"	"	

Prepared by method 410262-*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

7439-97-6	Mercury	< 0.0002		mg/l	0.0002	0.0002	1	SW7470A	20-Nov-17	21-Nov-17 08:23	11301	410262A	
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Subcontracted AnalysesPrepared by method 410104-SW8270*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

91-57-6	2-Methylnaphthalene	< 0.10		ug/l	0.10	0.10	1	SW8270D (SIM)	17-Nov-17	21-Nov-17 12:37	11301	410104A	
83-32-9	Acenaphthene	< 0.10		ug/l	0.10	0.10	1	"	"	"	"	"	
208-96-8	Acenaphthylene	< 0.10		ug/l	0.10	0.10	1	"	"	"	"	"	
120-12-7	Anthracene	< 0.10		ug/l	0.10	0.10	1	"	"	"	"	"	
56-55-3	Benz(a)anthracene	< 0.02		ug/l	0.02	0.02	1	"	"	"	"	"	
50-32-8	Benzo(a)pyrene	< 0.02		ug/l	0.02	0.02	1	"	"	"	"	"	
205-99-2	Benzo(b)fluoranthene	< 0.02		ug/l	0.02	0.02	1	"	"	"	"	"	
191-24-2	Benzo(ghi)perylene	< 0.10		ug/l	0.10	0.10	1	"	"	"	"	"	
207-08-9	Benzo(k)fluoranthene	< 0.02		ug/l	0.02	0.02	1	"	"	"	"	"	
218-01-9	Chrysene	< 0.02		ug/l	0.02	0.02	1	"	"	"	"	"	
53-70-3	Dibenz(a,h)anthracene	< 0.01		ug/l	0.01	0.01	1	"	"	"	"	"	
206-44-0	Fluoranthene	< 0.10		ug/l	0.10	0.10	1	"	"	"	"	"	
86-73-7	Fluorene	< 0.10		ug/l	0.10	0.10	1	"	"	"	"	"	
193-39-5	Indeno(1,2,3-cd)pyrene	< 0.02		ug/l	0.02	0.02	1	"	"	"	"	"	
91-20-3	Naphthalene	< 0.10		ug/l	0.10	0.10	1	"	"	"	"	"	
85-01-8	Phenanthrene	< 0.07		ug/l	0.07	0.07	1	"	"	"	"	"	
129-00-0	Pyrene	< 0.10		ug/l	0.10	0.10	1	"	"	"	"	"	

Surrogate recoveries:

321-60-8	% 2-Fluorobiphenyl	63			30-130 %		"	"	"	"	"	"	
4165-60-0	% Nitrobenzene-d5	64			30-130 %		"	"	"	"	"	"	
98904-43-9	% Terphenyl-d14	87			30-130 %		"	"	"	"	"	"	

Sample Identification

TW-5

SC41581-07

Client Project #

17-217

Matrix

Ground Water

Collection Date/Time

13-Nov-17 15:42

Received

14-Nov-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5030 Water MS</u>													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00	0.53	1	SW846 8260C	20-Nov-17	21-Nov-17	GMA	1719532	X
67-64-1	Acetone	4.91	J	µg/l	10.0	0.80	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.50	U	µg/l	0.50	0.47	1	"	"	"	"	"	X
71-43-2	Benzene	1.31		µg/l	1.00	0.28	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50	U	µg/l	0.50	0.42	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00	U	µg/l	2.00	0.90	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00	U	µg/l	2.00	1.07	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.00	U	µg/l	1.00	0.41	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00	U	µg/l	2.00	0.41	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00	U	µg/l	1.00	0.44	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00	U	µg/l	1.00	0.25	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00	U	µg/l	2.00	0.59	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00	U	µg/l	2.00	0.37	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00	0.86	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50	U	µg/l	0.50	0.32	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50	0.20	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.27	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00	0.58	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00	U	µg/l	1.00	0.69	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	0.57	J	µg/l	1.00	0.33	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.00	U	µg/l	1.00	0.21	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.00	U	µg/l	1.00	0.58	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.36	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.35	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.50	U	µg/l	0.50	0.47	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00	U	µg/l	2.00	0.53	1	"	"	"	"	"	X

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Sample Identification

TW-5

SC41581-07

Client Project #

17-217

Matrix

Ground Water

Collection Date/Time

13-Nov-17 15:42

Received

14-Nov-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
98-82-8	Isopropylbenzene	< 1.00	U	µg/l	1.00	0.36	1	SW846 8260C	20-Nov-17	21-Nov-17	GMA	1719532	X
99-87-6	4-Isopropyltoluene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00	0.52	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00	U	µg/l	2.00	0.66	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.00	U	µg/l	1.00	0.35	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00	U	µg/l	1.00	0.40	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50	0.33	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00	U	µg/l	1.00	0.57	1	"	"	"	"	"	X
108-88-3	Toluene	0.42	J	µg/l	1.00	0.30	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00	0.51	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.00	U	µg/l	1.00	0.50	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00	0.49	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.43	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00	U	µg/l	1.00	0.47	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00	U	µg/l	2.00	0.38	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.00	U	µg/l	2.00	1.06	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.00	U	µg/l	1.00	0.37	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.00	U	µg/l	1.00	0.49	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0	U	µg/l	10.0	5.90	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0	U	µg/l	20.0	11.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.00	U	µg/l	5.00	0.82	1	"	"	"	"	"	X
64-17-5	Ethanol	< 200	U	µg/l	200	30.9	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	102		70-130 %	"	"	"	"	"
2037-26-5	Toluene-d8	101		70-130 %	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	105		70-130 %	"	"	"	"	"
1868-53-7	Dibromofluoromethane	102		70-130 %	"	"	"	"	"

Subcontracted AnalysesSubcontracted AnalysesPrepared by method 410104-SW8270

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

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Sample Identification

TW-5

SC41581-07

Client Project #

17-217

Matrix

Ground Water

Collection Date/Time

13-Nov-17 15:42

Received

14-Nov-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Subcontracted AnalysesSubcontracted AnalysesPrepared by method 410104-SW8270*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

91-57-6	2-Methylnaphthalene	< 0.10		ug/l	0.10	0.10	1	SW8270D (SIM)	17-Nov-17	21-Nov-17 13:04	11301	410104A	
83-32-9	Acenaphthene	< 0.10		ug/l	0.10	0.10	1	"	"	"	"	"	
208-96-8	Acenaphthylene	< 0.10		ug/l	0.10	0.10	1	"	"	"	"	"	
120-12-7	Anthracene	0.24		ug/l	0.10	0.10	1	"	"	"	"	"	
56-55-3	Benz(a)anthracene	0.21		ug/l	0.02	0.02	1	"	"	"	"	"	
50-32-8	Benzo(a)pyrene	0.18		ug/l	0.02	0.02	1	"	"	"	"	"	
205-99-2	Benzo(b)fluoranthene	0.15		ug/l	0.02	0.02	1	"	"	"	"	"	
191-24-2	Benzo(ghi)perylene	< 0.10		ug/l	0.10	0.10	1	"	"	"	"	"	
207-08-9	Benzo(k)fluoranthene	0.13		ug/l	0.02	0.02	1	"	"	"	"	"	
218-01-9	Chrysene	0.16		ug/l	0.02	0.02	1	"	"	"	"	"	
53-70-3	Dibenz(a,h)anthracene	0.02		ug/l	0.01	0.01	1	"	"	"	"	"	
206-44-0	Fluoranthene	0.49		ug/l	0.10	0.10	1	"	"	"	"	"	
86-73-7	Fluorene	< 0.10		ug/l	0.10	0.10	1	"	"	"	"	"	
193-39-5	Indeno(1,2,3-cd)pyrene	0.09		ug/l	0.02	0.02	1	"	"	"	"	"	
91-20-3	Naphthalene	< 0.10		ug/l	0.10	0.10	1	"	"	"	"	"	
85-01-8	Phenanthrene	0.42		ug/l	0.07	0.07	1	"	"	"	"	"	
129-00-0	Pyrene	0.38		ug/l	0.10	0.10	1	"	"	"	"	"	

Surrogate recoveries:

321-60-8	% 2-Fluorobiphenyl	70			30-130 %			"	"	"	"	"	
4165-60-0	% Nitrobenzene-d5	67			30-130 %			"	"	"	"	"	
98904-43-9	% Terphenyl-d14	79			30-130 %			"	"	"	"	"	

Sample Identification

TW-12

SC41581-08

Client Project #

17-217

Matrix

Ground Water

Collection Date/Time

13-Nov-17 16:06

Received

14-Nov-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260			GS1										
Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 10.0	U, D	µg/l	10.0	5.32	10	SW846 8260C	20-Nov-17	22-Nov-17	GMA	1719532	X
67-64-1	Acetone	< 100	U, D	µg/l	100	8.04	10	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 5.00	U, D	µg/l	5.00	4.66	10	"	"	"	"	"	X
71-43-2	Benzene	< 10.0	U, D	µg/l	10.0	2.84	10	"	"	"	"	"	X
108-86-1	Bromobenzene	< 10.0	U, D	µg/l	10.0	3.32	10	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 10.0	U, D	µg/l	10.0	3.38	10	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 5.00	U, D	µg/l	5.00	4.17	10	"	"	"	"	"	X
75-25-2	Bromoform	< 10.0	U, D	µg/l	10.0	4.25	10	"	"	"	"	"	X
74-83-9	Bromomethane	< 20.0	U, D	µg/l	20.0	8.96	10	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 20.0	U, D	µg/l	20.0	10.7	10	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 10.0	U, D	µg/l	10.0	4.12	10	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 10.0	U, D	µg/l	10.0	3.26	10	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 10.0	U, D	µg/l	10.0	3.15	10	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 20.0	U, D	µg/l	20.0	4.12	10	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 10.0	U, D	µg/l	10.0	4.37	10	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 10.0	U, D	µg/l	10.0	2.49	10	"	"	"	"	"	X
75-00-3	Chloroethane	< 20.0	U, D	µg/l	20.0	5.88	10	"	"	"	"	"	X
67-66-3	Chloroform	< 10.0	U, D	µg/l	10.0	3.26	10	"	"	"	"	"	X
74-87-3	Chloromethane	< 20.0	U, D	µg/l	20.0	3.68	10	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 10.0	U, D	µg/l	10.0	3.16	10	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 10.0	U, D	µg/l	10.0	3.16	10	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 20.0	U, D	µg/l	20.0	8.63	10	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 5.00	U, D	µg/l	5.00	3.17	10	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 5.00	U, D	µg/l	5.00	2.02	10	"	"	"	"	"	X
74-95-3	Dibromomethane	< 10.0	U, D	µg/l	10.0	3.09	10	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 10.0	U, D	µg/l	10.0	2.77	10	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 10.0	U, D	µg/l	10.0	3.14	10	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 10.0	U, D	µg/l	10.0	2.72	10	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 20.0	U, D	µg/l	20.0	5.84	10	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 10.0	U, D	µg/l	10.0	3.23	10	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 10.0	U, D	µg/l	10.0	2.77	10	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 10.0	U, D	µg/l	10.0	6.93	10	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	12.8	D	µg/l	10.0	3.27	10	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 10.0	U, D	µg/l	10.0	3.77	10	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 10.0	U, D	µg/l	10.0	2.92	10	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 10.0	U, D	µg/l	10.0	2.14	10	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 10.0	U, D	µg/l	10.0	4.18	10	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 10.0	U, D	µg/l	10.0	5.78	10	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 5.00	U, D	µg/l	5.00	3.59	10	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 5.00	U, D	µg/l	5.00	3.47	10	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 10.0	U, D	µg/l	10.0	3.29	10	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 5.00	U, D	µg/l	5.00	4.70	10	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 20.0	U, D	µg/l	20.0	5.28	10	"	"	"	"	"	X

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Sample Identification

TW-12

SC41581-08

Client Project #

17-217

Matrix

Ground Water

Collection Date/Time

13-Nov-17 16:06

Received

14-Nov-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260				GS1									
98-82-8	Isopropylbenzene	< 10.0	U, D	µg/l	10.0	3.60	10	SW846 8260C	20-Nov-17	22-Nov-17	GMA	1719532	X
99-87-6	4-Isopropyltoluene	< 10.0	U, D	µg/l	10.0	2.79	10	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 10.0	U, D	µg/l	10.0	2.37	10	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 20.0	U, D	µg/l	20.0	5.15	10	"	"	"	"	"	X
75-09-2	Methylene chloride	< 20.0	U, D	µg/l	20.0	6.61	10	"	"	"	"	"	X
91-20-3	Naphthalene	< 10.0	U, D	µg/l	10.0	3.51	10	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 10.0	U, D	µg/l	10.0	3.44	10	"	"	"	"	"	X
100-42-5	Styrene	< 10.0	U, D	µg/l	10.0	4.05	10	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 10.0	U, D	µg/l	10.0	3.78	10	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.00	U, D	µg/l	5.00	3.30	10	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 10.0	U, D	µg/l	10.0	5.70	10	"	"	"	"	"	X
108-88-3	Toluene	< 10.0	U, D	µg/l	10.0	2.99	10	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 10.0	U, D	µg/l	10.0	3.77	10	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 10.0	U, D	µg/l	10.0	3.78	10	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 10.0	U, D	µg/l	10.0	2.96	10	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 10.0	U, D	µg/l	10.0	5.09	10	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 10.0	U, D	µg/l	10.0	3.30	10	"	"	"	"	"	X
79-01-6	Trichloroethene	587	D	µg/l	10.0	4.97	10	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 10.0	U, D	µg/l	10.0	4.87	10	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 10.0	U, D	µg/l	10.0	2.92	10	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 10.0	U, D	µg/l	10.0	3.55	10	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 10.0	U, D	µg/l	10.0	4.31	10	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 10.0	U, D	µg/l	10.0	4.72	10	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 20.0	U, D	µg/l	20.0	3.80	10	"	"	"	"	"	X
95-47-6	o-Xylene	< 10.0	U, D	µg/l	10.0	2.83	10	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 20.0	U, D	µg/l	20.0	10.6	10	"	"	"	"	"	
60-29-7	Ethyl ether	< 10.0	U, D	µg/l	10.0	3.74	10	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 10.0	U, D	µg/l	10.0	4.93	10	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 10.0	U, D	µg/l	10.0	3.32	10	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 10.0	U, D	µg/l	10.0	2.86	10	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 100	U, D	µg/l	100	59.0	10	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 200	U, D	µg/l	200	114	10	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 50.0	U, D	µg/l	50.0	8.21	10	"	"	"	"	"	X
64-17-5	Ethanol	< 2000	U, D	µg/l	2000	309	10	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	99		70-130 %	"	"	"	"	"
2037-26-5	Toluene-d8	104		70-130 %	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	105		70-130 %	"	"	"	"	"
1868-53-7	Dibromofluoromethane	103		70-130 %	"	"	"	"	"

Subcontracted AnalysesSubcontracted AnalysesPrepared by method 410244-

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

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Sample Identification

TW-12

SC41581-08

Client Project #

17-217

Matrix

Ground Water

Collection Date/Time

13-Nov-17 16:06

Received

14-Nov-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Subcontracted AnalysesSubcontracted AnalysesPrepared by method 410244-*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

7440-38-2	Arsenic	0.048		mg/l	0.004	0.004	1	SW6010C	18-Nov-17	20-Nov-17 14:09	11301	410244A	
7440-39-3	Barium	0.458		mg/l	0.002	0.002	1	"	"	"	"	"	
7440-43-9	Cadmium	0.004		mg/l	0.001	0.001	1	"	"	"	"	"	
7440-47-3	Chromium	0.092		mg/l	0.001	0.001	1	"	"	"	"	"	
7439-92-1	Lead	0.177		mg/l	0.002	0.002	1	"	"	"	"	"	
7782-49-2	Selenium	< 0.010		mg/l	0.010	0.010	1	"	"	"	"	"	
7440-22-4	Silver	< 0.001		mg/l	0.001	0.001	1	"	"	"	"	"	

Prepared by method 410262-*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

7439-97-6	Mercury	< 0.0002		mg/l	0.0002	0.0002	1	SW7470A	20-Nov-17	21-Nov-17 08:25	11301	410262A	
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Subcontracted AnalysesPrepared by method 410104-SW8270*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

91-57-6	2-Methylnaphthalene	< 0.11		ug/l	0.11	0.11	1	SW8270D (SIM)	17-Nov-17	21-Nov-17 13:31	11301	410104A	
83-32-9	Acenaphthene	< 0.11		ug/l	0.11	0.11	1	"	"	"	"	"	
208-96-8	Acenaphthylene	< 0.11		ug/l	0.11	0.11	1	"	"	"	"	"	
120-12-7	Anthracene	< 0.11		ug/l	0.11	0.11	1	"	"	"	"	"	
56-55-3	Benz(a)anthracene	0.10		ug/l	0.02	0.02	1	"	"	"	"	"	
50-32-8	Benzo(a)pyrene	0.08		ug/l	0.02	0.02	1	"	"	"	"	"	
205-99-2	Benzo(b)fluoranthene	0.08		ug/l	0.02	0.02	1	"	"	"	"	"	
191-24-2	Benzo(ghi)perylene	< 0.11		ug/l	0.11	0.11	1	"	"	"	"	"	
207-08-9	Benzo(k)fluoranthene	0.07		ug/l	0.02	0.02	1	"	"	"	"	"	
218-01-9	Chrysene	0.08		ug/l	0.02	0.02	1	"	"	"	"	"	
53-70-3	Dibenz(a,h)anthracene	0.02		ug/l	0.01	0.01	1	"	"	"	"	"	
206-44-0	Fluoranthene	0.19		ug/l	0.11	0.11	1	"	"	"	"	"	
86-73-7	Fluorene	< 0.11		ug/l	0.11	0.11	1	"	"	"	"	"	
193-39-5	Indeno(1,2,3-cd)pyrene	0.05		ug/l	0.02	0.02	1	"	"	"	"	"	
91-20-3	Naphthalene	< 0.11		ug/l	0.11	0.11	1	"	"	"	"	"	
85-01-8	Phenanthrene	0.12		ug/l	0.08	0.08	1	"	"	"	"	"	
129-00-0	Pyrene	0.17		ug/l	0.11	0.11	1	"	"	"	"	"	

Surrogate recoveries:

321-60-8	% 2-Fluorobiphenyl	64			30-130 %		"	"	"	"	"	"	
4165-60-0	% Nitrobenzene-d5	63			30-130 %		"	"	"	"	"	"	
98904-43-9	% Terphenyl-d14	86			30-130 %		"	"	"	"	"	"	

Sample Identification

Trip Blank

SC41581-09

Client Project #

17-217

Matrix

Aqueous

Collection Date/Time

13-Nov-17 00:00

Received

14-Nov-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5030 Water MS</u>													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00	0.53	1	SW846 8260C	20-Nov-17	22-Nov-17	GMA	1719532	X
67-64-1	Acetone	< 10.0	U	µg/l	10.0	0.80	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.50	U	µg/l	0.50	0.47	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50	U	µg/l	0.50	0.42	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00	U	µg/l	2.00	0.90	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00	U	µg/l	2.00	1.07	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.00	U	µg/l	1.00	0.41	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00	U	µg/l	2.00	0.41	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00	U	µg/l	1.00	0.44	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00	U	µg/l	1.00	0.25	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00	U	µg/l	2.00	0.59	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00	U	µg/l	2.00	0.37	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00	0.86	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50	U	µg/l	0.50	0.32	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50	0.20	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.27	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00	0.58	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00	U	µg/l	1.00	0.69	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.00	U	µg/l	1.00	0.21	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.00	U	µg/l	1.00	0.58	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.36	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.35	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.50	U	µg/l	0.50	0.47	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00	U	µg/l	2.00	0.53	1	"	"	"	"	"	X

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Sample Identification

Trip Blank
SC41581-09

Client Project #
17-217

Matrix
Aqueous

Collection Date/Time
13-Nov-17 00:00

Received
14-Nov-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
98-82-8	Isopropylbenzene	< 1.00	U	µg/l	1.00	0.36	1	SW846 8260C	20-Nov-17	22-Nov-17	GMA	1719532	X
99-87-6	4-Isopropyltoluene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00	0.52	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00	U	µg/l	2.00	0.66	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.00	U	µg/l	1.00	0.35	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00	U	µg/l	1.00	0.40	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50	0.33	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00	U	µg/l	1.00	0.57	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00	0.51	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.00	U	µg/l	1.00	0.50	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00	0.49	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.43	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00	U	µg/l	1.00	0.47	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00	U	µg/l	2.00	0.38	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.00	U	µg/l	2.00	1.06	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.00	U	µg/l	1.00	0.37	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.00	U	µg/l	1.00	0.49	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0	U	µg/l	10.0	5.90	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0	U	µg/l	20.0	11.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.00	U	µg/l	5.00	0.82	1	"	"	"	"	"	X
64-17-5	Ethanol	< 200	U	µg/l	200	30.9	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	100		70-130 %		"	"	"	"	"
2037-26-5	Toluene-d8	102		70-130 %		"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	105		70-130 %		"	"	"	"	"
1868-53-7	Dibromofluoromethane	102		70-130 %		"	"	"	"	"

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719532 - SW846 5030 Water MS										
Blank (1719532-BLK1)					<u>Prepared: 20-Nov-17 Analyzed: 21-Nov-17</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00						
Acetone	< 10.0	U	µg/l	10.0						
Acrylonitrile	< 0.50	U	µg/l	0.50						
Benzene	< 1.00	U	µg/l	1.00						
Bromobenzene	< 1.00	U	µg/l	1.00						
Bromochloromethane	< 1.00	U	µg/l	1.00						
Bromodichloromethane	< 0.50	U	µg/l	0.50						
Bromoform	< 1.00	U	µg/l	1.00						
Bromomethane	< 2.00	U	µg/l	2.00						
2-Butanone (MEK)	< 2.00	U	µg/l	2.00						
n-Butylbenzene	< 1.00	U	µg/l	1.00						
sec-Butylbenzene	< 1.00	U	µg/l	1.00						
tert-Butylbenzene	< 1.00	U	µg/l	1.00						
Carbon disulfide	< 2.00	U	µg/l	2.00						
Carbon tetrachloride	< 1.00	U	µg/l	1.00						
Chlorobenzene	< 1.00	U	µg/l	1.00						
Chloroethane	< 2.00	U	µg/l	2.00						
Chloroform	< 1.00	U	µg/l	1.00						
Chloromethane	< 2.00	U	µg/l	2.00						
2-Chlorotoluene	< 1.00	U	µg/l	1.00						
4-Chlorotoluene	< 1.00	U	µg/l	1.00						
1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00						
Dibromochloromethane	< 0.50	U	µg/l	0.50						
1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50						
Dibromomethane	< 1.00	U	µg/l	1.00						
1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00						
1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00						
1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00						
Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00						
1,1-Dichloroethane	< 1.00	U	µg/l	1.00						
1,2-Dichloroethane	< 1.00	U	µg/l	1.00						
1,1-Dichloroethene	< 1.00	U	µg/l	1.00						
cis-1,2-Dichloroethene	< 1.00	U	µg/l	1.00						
trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00						
1,2-Dichloropropane	< 1.00	U	µg/l	1.00						
1,3-Dichloropropane	< 1.00	U	µg/l	1.00						
2,2-Dichloropropane	< 1.00	U	µg/l	1.00						
1,1-Dichloropropene	< 1.00	U	µg/l	1.00						
cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50						
trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50						
Ethylbenzene	< 1.00	U	µg/l	1.00						
Hexachlorobutadiene	< 0.50	U	µg/l	0.50						
2-Hexanone (MBK)	< 2.00	U	µg/l	2.00						
Isopropylbenzene	< 1.00	U	µg/l	1.00						
4-Isopropyltoluene	< 1.00	U	µg/l	1.00						
Methyl tert-butyl ether	< 1.00	U	µg/l	1.00						
4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00						
Methylene chloride	< 2.00	U	µg/l	2.00						
Naphthalene	< 1.00	U	µg/l	1.00						
n-Propylbenzene	< 1.00	U	µg/l	1.00						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719532 - SW846 5030 Water MS										
Blank (1719532-BLK1)					<u>Prepared: 20-Nov-17 Analyzed: 21-Nov-17</u>					
Styrene	< 1.00	U	µg/l	1.00						
1,1,1,2-Tetrachloroethane	< 1.00	U	µg/l	1.00						
1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50						
Tetrachloroethene	< 1.00	U	µg/l	1.00						
Toluene	< 1.00	U	µg/l	1.00						
1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00						
1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00						
1,3,5-Trichlorobenzene	< 1.00	U	µg/l	1.00						
1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00						
1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00						
Trichloroethene	< 1.00	U	µg/l	1.00						
Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00						
1,2,3-Trichloropropane	< 1.00	U	µg/l	1.00						
1,2,4-Trimethylbenzene	< 1.00	U	µg/l	1.00						
1,3,5-Trimethylbenzene	< 1.00	U	µg/l	1.00						
Vinyl chloride	< 1.00	U	µg/l	1.00						
m,p-Xylene	< 2.00	U	µg/l	2.00						
o-Xylene	< 1.00	U	µg/l	1.00						
Tetrahydrofuran	< 2.00	U	µg/l	2.00						
Ethyl ether	< 1.00	U	µg/l	1.00						
Tert-amyl methyl ether	< 1.00	U	µg/l	1.00						
Ethyl tert-butyl ether	< 1.00	U	µg/l	1.00						
Di-isopropyl ether	< 1.00	U	µg/l	1.00						
Tert-Butanol / butyl alcohol	< 10.0	U	µg/l	10.0						
1,4-Dioxane	< 20.0	U	µg/l	20.0						
trans-1,4-Dichloro-2-butene	< 5.00	U	µg/l	5.00						
Ethanol	< 200	U	µg/l	200						
Surrogate: 4-Bromofluorobenzene	50.2		µg/l		50.0		100	70-130		
Surrogate: Toluene-d8	51.1		µg/l		50.0		102	70-130		
Surrogate: 1,2-Dichloroethane-d4	51.8		µg/l		50.0		104	70-130		
Surrogate: Dibromofluoromethane	51.6		µg/l		50.0		103	70-130		
LCS (1719532-BS1)					<u>Prepared: 20-Nov-17 Analyzed: 21-Nov-17</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.1		µg/l		20.0		101	70-130		
Acetone	20.0		µg/l		20.0		100	70-130		
Acrylonitrile	15.9		µg/l		20.0		79	70-130		
Benzene	22.0		µg/l		20.0		110	70-130		
Bromobenzene	20.7		µg/l		20.0		103	70-130		
Bromochloromethane	21.3		µg/l		20.0		106	70-130		
Bromodichloromethane	21.3		µg/l		20.0		106	70-130		
Bromoform	20.6		µg/l		20.0		103	70-130		
Bromomethane	20.3		µg/l		20.0		102	70-130		
2-Butanone (MEK)	17.4		µg/l		20.0		87	70-130		
n-Butylbenzene	19.1		µg/l		20.0		95	70-130		
sec-Butylbenzene	19.7		µg/l		20.0		99	70-130		
tert-Butylbenzene	19.7		µg/l		20.0		98	70-130		
Carbon disulfide	21.5		µg/l		20.0		107	70-130		
Carbon tetrachloride	22.1		µg/l		20.0		110	70-130		
Chlorobenzene	20.2		µg/l		20.0		101	70-130		
Chloroethane	17.5		µg/l		20.0		87	70-130		
Chloroform	21.2		µg/l		20.0		106	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719532 - SW846 5030 Water MS										
LCS (1719532-BS1)	Prepared: 20-Nov-17 Analyzed: 21-Nov-17									
Chloromethane	16.8		µg/l		20.0		84	70-130		
2-Chlorotoluene	21.2		µg/l		20.0		106	70-130		
4-Chlorotoluene	21.4		µg/l		20.0		107	70-130		
1,2-Dibromo-3-chloropropane	17.0		µg/l		20.0		85	70-130		
Dibromochloromethane	22.2		µg/l		20.0		111	70-130		
1,2-Dibromoethane (EDB)	21.8		µg/l		20.0		109	70-130		
Dibromomethane	21.1		µg/l		20.0		105	70-130		
1,2-Dichlorobenzene	20.9		µg/l		20.0		105	70-130		
1,3-Dichlorobenzene	20.2		µg/l		20.0		101	70-130		
1,4-Dichlorobenzene	19.3		µg/l		20.0		97	70-130		
Dichlorodifluoromethane (Freon12)	18.0		µg/l		20.0		90	70-130		
1,1-Dichloroethane	21.7		µg/l		20.0		108	70-130		
1,2-Dichloroethane	22.0		µg/l		20.0		110	70-130		
1,1-Dichloroethene	19.4		µg/l		20.0		97	70-130		
cis-1,2-Dichloroethene	21.3		µg/l		20.0		107	70-130		
trans-1,2-Dichloroethene	20.5		µg/l		20.0		102	70-130		
1,2-Dichloropropane	22.6		µg/l		20.0		113	70-130		
1,3-Dichloropropane	21.7		µg/l		20.0		109	70-130		
2,2-Dichloropropane	14.3		µg/l		20.0		72	70-130		
1,1-Dichloropropene	22.0		µg/l		20.0		110	70-130		
cis-1,3-Dichloropropene	19.9		µg/l		20.0		99	70-130		
trans-1,3-Dichloropropene	19.7		µg/l		20.0		98	70-130		
Ethylbenzene	21.3		µg/l		20.0		106	70-130		
Hexachlorobutadiene	19.8		µg/l		20.0		99	70-130		
2-Hexanone (MBK)	18.4		µg/l		20.0		92	70-130		
Isopropylbenzene	20.5		µg/l		20.0		103	70-130		
4-Isopropyltoluene	19.7		µg/l		20.0		98	70-130		
Methyl tert-butyl ether	20.8		µg/l		20.0		104	70-130		
4-Methyl-2-pentanone (MIBK)	20.0		µg/l		20.0		100	70-130		
Methylene chloride	16.6		µg/l		20.0		83	70-130		
Naphthalene	17.1		µg/l		20.0		85	70-130		
n-Propylbenzene	20.0		µg/l		20.0		100	70-130		
Styrene	19.4		µg/l		20.0		97	70-130		
1,1,1,2-Tetrachloroethane	21.0		µg/l		20.0		105	70-130		
1,1,2,2-Tetrachloroethane	20.5		µg/l		20.0		103	70-130		
Tetrachloroethene	21.2		µg/l		20.0		106	70-130		
Toluene	21.6		µg/l		20.0		108	70-130		
1,2,3-Trichlorobenzene	18.8		µg/l		20.0		94	70-130		
1,2,4-Trichlorobenzene	18.4		µg/l		20.0		92	70-130		
1,3,5-Trichlorobenzene	19.4		µg/l		20.0		97	70-130		
1,1,1-Trichloroethane	22.3		µg/l		20.0		111	70-130		
1,1,2-Trichloroethane	22.2		µg/l		20.0		111	70-130		
Trichloroethene	21.2		µg/l		20.0		106	70-130		
Trichlorofluoromethane (Freon 11)	20.3		µg/l		20.0		102	70-130		
1,2,3-Trichloropropane	20.6		µg/l		20.0		103	70-130		
1,2,4-Trimethylbenzene	19.7		µg/l		20.0		98	70-130		
1,3,5-Trimethylbenzene	19.9		µg/l		20.0		100	70-130		
Vinyl chloride	19.3		µg/l		20.0		96	70-130		
m,p-Xylene	22.2		µg/l		20.0		111	70-130		
o-Xylene	21.4		µg/l		20.0		107	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719532 - SW846 5030 Water MS										
LCS (1719532-BS1)					<u>Prepared: 20-Nov-17 Analyzed: 21-Nov-17</u>					
Tetrahydrofuran	19.1		µg/l		20.0		95	70-130		
Ethyl ether	19.3		µg/l		20.0		97	70-130		
Tert-amyl methyl ether	20.1		µg/l		20.0		100	70-130		
Ethyl tert-butyl ether	21.7		µg/l		20.0		109	70-130		
Di-isopropyl ether	21.4		µg/l		20.0		107	70-130		
Tert-Butanol / butyl alcohol	191		µg/l		200		96	70-130		
1,4-Dioxane	174		µg/l		200		87	70-130		
trans-1,4-Dichloro-2-butene	19.2		µg/l		20.0		96	70-130		
Ethanol	328		µg/l		400		82	70-130		
Surrogate: 4-Bromofluorobenzene	50.4		µg/l		50.0		101	70-130		
Surrogate: Toluene-d8	50.9		µg/l		50.0		102	70-130		
Surrogate: 1,2-Dichloroethane-d4	51.0		µg/l		50.0		102	70-130		
Surrogate: Dibromofluoromethane	50.8		µg/l		50.0		102	70-130		
LCS Dup (1719532-BSD1)					<u>Prepared: 20-Nov-17 Analyzed: 21-Nov-17</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0		µg/l		20.0		100	70-130	0.7	20
Acetone	20.4		µg/l		20.0		102	70-130	2	20
Acrylonitrile	16.8		µg/l		20.0		84	70-130	5	20
Benzene	22.0		µg/l		20.0		110	70-130	0.1	20
Bromobenzene	16.9		µg/l		20.0		85	70-130	20	20
Bromochloromethane	19.9		µg/l		20.0		99	70-130	7	20
Bromodichloromethane	19.4		µg/l		20.0		97	70-130	9	20
Bromoform	16.5	QR2	µg/l		20.0		83	70-130	22	20
Bromomethane	19.6		µg/l		20.0		98	70-130	4	20
2-Butanone (MEK)	20.7		µg/l		20.0		103	70-130	17	20
n-Butylbenzene	19.5		µg/l		20.0		97	70-130	2	20
sec-Butylbenzene	16.5		µg/l		20.0		82	70-130	18	20
tert-Butylbenzene	16.4		µg/l		20.0		82	70-130	18	20
Carbon disulfide	21.3		µg/l		20.0		106	70-130	1	20
Carbon tetrachloride	18.6		µg/l		20.0		93	70-130	17	20
Chlorobenzene	20.1		µg/l		20.0		101	70-130	0.2	20
Chloroethane	17.8		µg/l		20.0		89	70-130	2	20
Chloroform	20.0		µg/l		20.0		100	70-130	6	20
Chloromethane	17.6		µg/l		20.0		88	70-130	5	20
2-Chlorotoluene	17.3		µg/l		20.0		87	70-130	20	20
4-Chlorotoluene	17.5		µg/l		20.0		87	70-130	20	20
1,2-Dibromo-3-chloropropane	20.3		µg/l		20.0		102	70-130	18	20
Dibromochloromethane	19.7		µg/l		20.0		99	70-130	12	20
1,2-Dibromoethane (EDB)	20.8		µg/l		20.0		104	70-130	5	20
Dibromomethane	20.6		µg/l		20.0		103	70-130	2	20
1,2-Dichlorobenzene	21.6		µg/l		20.0		108	70-130	3	20
1,3-Dichlorobenzene	16.9		µg/l		20.0		85	70-130	18	20
1,4-Dichlorobenzene	20.4		µg/l		20.0		102	70-130	6	20
Dichlorodifluoromethane (Freon12)	16.1		µg/l		20.0		81	70-130	11	20
1,1-Dichloroethane	20.9		µg/l		20.0		104	70-130	4	20
1,2-Dichloroethane	19.1		µg/l		20.0		95	70-130	14	20
1,1-Dichloroethene	18.2		µg/l		20.0		91	70-130	7	20
cis-1,2-Dichloroethene	20.8		µg/l		20.0		104	70-130	2	20
trans-1,2-Dichloroethene	20.3		µg/l		20.0		101	70-130	1	20
1,2-Dichloropropane	22.2		µg/l		20.0		111	70-130	2	20
1,3-Dichloropropane	21.4		µg/l		20.0		107	70-130	1	20

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719532 - SW846 5030 Water MS										
LCS Dup (1719532-BSD1)					Prepared: 20-Nov-17 Analyzed: 21-Nov-17					
2,2-Dichloropropane	12.5	QM9	µg/l		20.0		62	70-130	14	20
1,1-Dichloropropene	20.4		µg/l		20.0		102	70-130	8	20
cis-1,3-Dichloropropene	18.9		µg/l		20.0		94	70-130	5	20
trans-1,3-Dichloropropene	18.5		µg/l		20.0		92	70-130	6	20
Ethylbenzene	17.5		µg/l		20.0		87	70-130	20	20
Hexachlorobutadiene	20.9		µg/l		20.0		104	70-130	5	20
2-Hexanone (MBK)	20.2		µg/l		20.0		101	70-130	9	20
Isopropylbenzene	16.7	QR2	µg/l		20.0		84	70-130	21	20
4-Isopropyltoluene	19.9		µg/l		20.0		99	70-130	1	20
Methyl tert-butyl ether	20.3		µg/l		20.0		102	70-130	2	20
4-Methyl-2-pentanone (MIBK)	20.4		µg/l		20.0		102	70-130	2	20
Methylene chloride	20.9	QR2	µg/l		20.0		104	70-130	22	20
Naphthalene	20.2		µg/l		20.0		101	70-130	17	20
n-Propylbenzene	16.3	QR2	µg/l		20.0		81	70-130	21	20
Styrene	17.6		µg/l		20.0		88	70-130	10	20
1,1,1,2-Tetrachloroethane	20.7		µg/l		20.0		104	70-130	1	20
1,1,2,2-Tetrachloroethane	17.8		µg/l		20.0		89	70-130	14	20
Tetrachloroethene	19.7		µg/l		20.0		98	70-130	8	20
Toluene	21.0		µg/l		20.0		105	70-130	3	20
1,2,3-Trichlorobenzene	20.2		µg/l		20.0		101	70-130	7	20
1,2,4-Trichlorobenzene	19.4		µg/l		20.0		97	70-130	6	20
1,3,5-Trichlorobenzene	20.8		µg/l		20.0		104	70-130	7	20
1,1,1-Trichloroethane	19.2		µg/l		20.0		96	70-130	15	20
1,1,2-Trichloroethane	22.0		µg/l		20.0		110	70-130	1	20
Trichloroethene	20.7		µg/l		20.0		104	70-130	2	20
Trichlorofluoromethane (Freon 11)	17.0		µg/l		20.0		85	70-130	18	20
1,2,3-Trichloropropane	21.0		µg/l		20.0		105	70-130	2	20
1,2,4-Trimethylbenzene	16.6		µg/l		20.0		83	70-130	17	20
1,3,5-Trimethylbenzene	16.4		µg/l		20.0		82	70-130	20	20
Vinyl chloride	17.5		µg/l		20.0		87	70-130	10	20
m,p-Xylene	17.8	QR2	µg/l		20.0		89	70-130	22	20
o-Xylene	17.9		µg/l		20.0		90	70-130	18	20
Tetrahydrofuran	19.8		µg/l		20.0		99	70-130	3	20
Ethyl ether	19.4		µg/l		20.0		97	70-130	0.2	20
Tert-amyl methyl ether	19.4		µg/l		20.0		97	70-130	3	20
Ethyl tert-butyl ether	21.2		µg/l		20.0		106	70-130	3	20
Di-isopropyl ether	22.3		µg/l		20.0		112	70-130	4	20
Tert-Butanol / butyl alcohol	195		µg/l		200		98	70-130	2	20
1,4-Dioxane	198		µg/l		200		99	70-130	13	20
trans-1,4-Dichloro-2-butene	15.5	QR2	µg/l		20.0		77	70-130	21	20
Ethanol	385		µg/l		400		96	70-130	16	20
Surrogate: 4-Bromofluorobenzene	41.2		µg/l		50.0		82	70-130		
Surrogate: Toluene-d8	50.3		µg/l		50.0		101	70-130		
Surrogate: 1,2-Dichloroethane-d4	46.0		µg/l		50.0		92	70-130		
Surrogate: Dibromofluoromethane	46.8		µg/l		50.0		94	70-130		
Batch 1719759 - SW846 5030 Water MS										
Blank (1719759-BLK1)					Prepared & Analyzed: 27-Nov-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00						
Acetone	< 10.0	U	µg/l	10.0						
Acrylonitrile	< 0.50	U	µg/l	0.50						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719759 - SW846 5030 Water MS										
Blank (1719759-BLK1)	Prepared & Analyzed: 27-Nov-17									
Benzene	< 1.00	U	µg/l	1.00						
Bromobenzene	< 1.00	U	µg/l	1.00						
Bromochloromethane	< 1.00	U	µg/l	1.00						
Bromodichloromethane	< 0.50	U	µg/l	0.50						
Bromoform	< 1.00	U	µg/l	1.00						
Bromomethane	< 2.00	U	µg/l	2.00						
2-Butanone (MEK)	< 2.00	U	µg/l	2.00						
n-Butylbenzene	< 1.00	U	µg/l	1.00						
sec-Butylbenzene	< 1.00	U	µg/l	1.00						
tert-Butylbenzene	< 1.00	U	µg/l	1.00						
Carbon disulfide	< 2.00	U	µg/l	2.00						
Carbon tetrachloride	< 1.00	U	µg/l	1.00						
Chlorobenzene	< 1.00	U	µg/l	1.00						
Chloroethane	< 2.00	U	µg/l	2.00						
Chloroform	< 1.00	U	µg/l	1.00						
Chloromethane	0.39	J	µg/l	2.00						
2-Chlorotoluene	< 1.00	U	µg/l	1.00						
4-Chlorotoluene	< 1.00	U	µg/l	1.00						
1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00						
Dibromochloromethane	< 0.50	U	µg/l	0.50						
1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50						
Dibromomethane	< 1.00	U	µg/l	1.00						
1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00						
1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00						
1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00						
Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00						
1,1-Dichloroethane	< 1.00	U	µg/l	1.00						
1,2-Dichloroethane	< 1.00	U	µg/l	1.00						
1,1-Dichloroethene	< 1.00	U	µg/l	1.00						
cis-1,2-Dichloroethene	< 1.00	U	µg/l	1.00						
trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00						
1,2-Dichloropropane	< 1.00	U	µg/l	1.00						
1,3-Dichloropropane	< 1.00	U	µg/l	1.00						
2,2-Dichloropropane	< 1.00	U	µg/l	1.00						
1,1-Dichloropropene	< 1.00	U	µg/l	1.00						
cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50						
trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50						
Ethylbenzene	< 1.00	U	µg/l	1.00						
Hexachlorobutadiene	< 0.50	U	µg/l	0.50						
2-Hexanone (MBK)	< 2.00	U	µg/l	2.00						
Isopropylbenzene	< 1.00	U	µg/l	1.00						
4-Isopropyltoluene	< 1.00	U	µg/l	1.00						
Methyl tert-butyl ether	< 1.00	U	µg/l	1.00						
4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00						
Methylene chloride	< 2.00	U	µg/l	2.00						
Naphthalene	< 1.00	U	µg/l	1.00						
n-Propylbenzene	< 1.00	U	µg/l	1.00						
Styrene	< 1.00	U	µg/l	1.00						
1,1,1,2-Tetrachloroethane	< 1.00	U	µg/l	1.00						
1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719759 - SW846 5030 Water MS										
Blank (1719759-BLK1)					<u>Prepared & Analyzed: 27-Nov-17</u>					
Tetrachloroethene	< 1.00	U	µg/l	1.00						
Toluene	< 1.00	U	µg/l	1.00						
1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00						
1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00						
1,3,5-Trichlorobenzene	< 1.00	U	µg/l	1.00						
1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00						
1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00						
Trichloroethene	< 1.00	U	µg/l	1.00						
Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00						
1,2,3-Trichloropropane	< 1.00	U	µg/l	1.00						
1,2,4-Trimethylbenzene	< 1.00	U	µg/l	1.00						
1,3,5-Trimethylbenzene	< 1.00	U	µg/l	1.00						
Vinyl chloride	< 1.00	U	µg/l	1.00						
m,p-Xylene	< 2.00	U	µg/l	2.00						
o-Xylene	< 1.00	U	µg/l	1.00						
Tetrahydrofuran	< 2.00	U	µg/l	2.00						
Ethyl ether	< 1.00	U	µg/l	1.00						
Tert-amyl methyl ether	< 1.00	U	µg/l	1.00						
Ethyl tert-butyl ether	< 1.00	U	µg/l	1.00						
Di-isopropyl ether	< 1.00	U	µg/l	1.00						
Tert-Butanol / butyl alcohol	< 10.0	U	µg/l	10.0						
1,4-Dioxane	< 20.0	U	µg/l	20.0						
trans-1,4-Dichloro-2-butene	< 5.00	U	µg/l	5.00						
Ethanol	< 200	U	µg/l	200						
Surrogate: 4-Bromofluorobenzene	44.2		µg/l		50.0		88	70-130		
Surrogate: Toluene-d8	49.5		µg/l		50.0		99	70-130		
Surrogate: 1,2-Dichloroethane-d4	54.0		µg/l		50.0		108	70-130		
Surrogate: Dibromofluoromethane	53.3		µg/l		50.0		107	70-130		
LCS (1719759-BB1)					<u>Prepared & Analyzed: 27-Nov-17</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	22.6		µg/l		20.0		113	70-130		
Acetone	21.7		µg/l		20.0		109	70-130		
Acrylonitrile	21.6		µg/l		20.0		108	70-130		
Benzene	22.6		µg/l		20.0		113	70-130		
Bromobenzene	21.9		µg/l		20.0		109	70-130		
Bromochloromethane	22.7		µg/l		20.0		113	70-130		
Bromodichloromethane	22.7		µg/l		20.0		113	70-130		
Bromoform	22.1		µg/l		20.0		110	70-130		
Bromomethane	23.2		µg/l		20.0		116	70-130		
2-Butanone (MEK)	21.3		µg/l		20.0		106	70-130		
n-Butylbenzene	20.2		µg/l		20.0		101	70-130		
sec-Butylbenzene	20.6		µg/l		20.0		103	70-130		
tert-Butylbenzene	20.1		µg/l		20.0		101	70-130		
Carbon disulfide	25.7		µg/l		20.0		129	70-130		
Carbon tetrachloride	22.1		µg/l		20.0		110	70-130		
Chlorobenzene	21.4		µg/l		20.0		107	70-130		
Chloroethane	24.2		µg/l		20.0		121	70-130		
Chloroform	22.4		µg/l		20.0		112	70-130		
Chloromethane	21.3		µg/l		20.0		106	70-130		
2-Chlorotoluene	21.2		µg/l		20.0		106	70-130		
4-Chlorotoluene	21.2		µg/l		20.0		106	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8260C</u>										
Batch 1719759 - SW846 5030 Water MS										
<u>LCS (1719759-BS1)</u>					<u>Prepared & Analyzed: 27-Nov-17</u>					
1,2-Dibromo-3-chloropropane	22.0		µg/l		20.0		110	70-130		
Dibromochloromethane	22.2		µg/l		20.0		111	70-130		
1,2-Dibromoethane (EDB)	21.3		µg/l		20.0		107	70-130		
Dibromomethane	22.4		µg/l		20.0		112	70-130		
1,2-Dichlorobenzene	21.9		µg/l		20.0		110	70-130		
1,3-Dichlorobenzene	21.1		µg/l		20.0		105	70-130		
1,4-Dichlorobenzene	20.6		µg/l		20.0		103	70-130		
Dichlorodifluoromethane (Freon12)	21.4		µg/l		20.0		107	70-130		
1,1-Dichloroethane	23.4		µg/l		20.0		117	70-130		
1,2-Dichloroethane	22.2		µg/l		20.0		111	70-130		
1,1-Dichloroethene	22.8		µg/l		20.0		114	70-130		
cis-1,2-Dichloroethene	21.6		µg/l		20.0		108	70-130		
trans-1,2-Dichloroethene	22.6		µg/l		20.0		113	70-130		
1,2-Dichloropropane	21.9		µg/l		20.0		109	70-130		
1,3-Dichloropropane	22.0		µg/l		20.0		110	70-130		
2,2-Dichloropropane	26.1		µg/l		20.0		130	70-130		
1,1-Dichloropropene	21.8		µg/l		20.0		109	70-130		
cis-1,3-Dichloropropene	21.7		µg/l		20.0		108	70-130		
trans-1,3-Dichloropropene	22.3		µg/l		20.0		112	70-130		
Ethylbenzene	20.3		µg/l		20.0		102	70-130		
Hexachlorobutadiene	19.8		µg/l		20.0		99	70-130		
2-Hexanone (MBK)	19.8		µg/l		20.0		99	70-130		
Isopropylbenzene	20.5		µg/l		20.0		103	70-130		
4-Isopropyltoluene	19.7		µg/l		20.0		98	70-130		
Methyl tert-butyl ether	24.4		µg/l		20.0		122	70-130		
4-Methyl-2-pentanone (MIBK)	20.3		µg/l		20.0		101	70-130		
Methylene chloride	22.2		µg/l		20.0		111	70-130		
Naphthalene	19.5		µg/l		20.0		98	70-130		
n-Propylbenzene	19.3		µg/l		20.0		97	70-130		
Styrene	20.3		µg/l		20.0		101	70-130		
1,1,1,2-Tetrachloroethane	20.8		µg/l		20.0		104	70-130		
1,1,2,2-Tetrachloroethane	22.8		µg/l		20.0		114	70-130		
Tetrachloroethene	22.1		µg/l		20.0		110	70-130		
Toluene	22.7		µg/l		20.0		114	70-130		
1,2,3-Trichlorobenzene	20.3		µg/l		20.0		101	70-130		
1,2,4-Trichlorobenzene	20.3		µg/l		20.0		101	70-130		
1,3,5-Trichlorobenzene	20.0		µg/l		20.0		100	70-130		
1,1,1-Trichloroethane	23.7		µg/l		20.0		118	70-130		
1,1,2-Trichloroethane	22.9		µg/l		20.0		115	70-130		
Trichloroethene	21.6		µg/l		20.0		108	70-130		
Trichlorofluoromethane (Freon 11)	23.6		µg/l		20.0		118	70-130		
1,2,3-Trichloropropane	23.0		µg/l		20.0		115	70-130		
1,2,4-Trimethylbenzene	19.4		µg/l		20.0		97	70-130		
1,3,5-Trimethylbenzene	19.2		µg/l		20.0		96	70-130		
Vinyl chloride	24.5		µg/l		20.0		123	70-130		
m,p-Xylene	20.0		µg/l		20.0		100	70-130		
o-Xylene	20.3		µg/l		20.0		101	70-130		
Tetrahydrofuran	20.1		µg/l		20.0		100	70-130		
Ethyl ether	22.8		µg/l		20.0		114	70-130		
Tert-amyl methyl ether	21.9		µg/l		20.0		110	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719759 - SW846 5030 Water MS										
LCS (1719759-BS1)					<u>Prepared & Analyzed: 27-Nov-17</u>					
Ethyl tert-butyl ether	20.1		µg/l		20.0		100	70-130		
Di-isopropyl ether	23.0		µg/l		20.0		115	70-130		
Tert-Butanol / butyl alcohol	239		µg/l		200		119	70-130		
1,4-Dioxane	198		µg/l		200		99	70-130		
trans-1,4-Dichloro-2-butene	21.4		µg/l		20.0		107	70-130		
Ethanol	439		µg/l		400		110	70-130		
<i>Surrogate: 4-Bromofluorobenzene</i>	53.4		µg/l		50.0		107	70-130		
<i>Surrogate: Toluene-d8</i>	52.8		µg/l		50.0		106	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	50.6		µg/l		50.0		101	70-130		
<i>Surrogate: Dibromofluoromethane</i>	51.6		µg/l		50.0		103	70-130		
LCS Dup (1719759-BSD1)					<u>Prepared & Analyzed: 27-Nov-17</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	21.6		µg/l		20.0		108	70-130	5	20
Acetone	21.8		µg/l		20.0		109	70-130	0.1	20
Acrylonitrile	21.5		µg/l		20.0		107	70-130	0.3	20
Benzene	21.8		µg/l		20.0		109	70-130	3	20
Bromobenzene	20.9		µg/l		20.0		104	70-130	5	20
Bromochloromethane	22.6		µg/l		20.0		113	70-130	0.4	20
Bromodichloromethane	21.8		µg/l		20.0		109	70-130	4	20
Bromoform	22.1		µg/l		20.0		111	70-130	0.1	20
Bromomethane	21.0		µg/l		20.0		105	70-130	10	20
2-Butanone (MEK)	21.3		µg/l		20.0		107	70-130	0.2	20
n-Butylbenzene	19.1		µg/l		20.0		96	70-130	5	20
sec-Butylbenzene	19.6		µg/l		20.0		98	70-130	5	20
tert-Butylbenzene	19.1		µg/l		20.0		95	70-130	5	20
Carbon disulfide	23.9		µg/l		20.0		120	70-130	7	20
Carbon tetrachloride	20.6		µg/l		20.0		103	70-130	7	20
Chlorobenzene	20.9		µg/l		20.0		105	70-130	2	20
Chloroethane	22.8		µg/l		20.0		114	70-130	6	20
Chloroform	21.8		µg/l		20.0		109	70-130	3	20
Chloromethane	20.1		µg/l		20.0		100	70-130	6	20
2-Chlorotoluene	19.7		µg/l		20.0		99	70-130	7	20
4-Chlorotoluene	19.9		µg/l		20.0		100	70-130	6	20
1,2-Dibromo-3-chloropropane	21.4		µg/l		20.0		107	70-130	3	20
Dibromochloromethane	21.9		µg/l		20.0		109	70-130	2	20
1,2-Dibromoethane (EDB)	20.9		µg/l		20.0		104	70-130	2	20
Dibromomethane	22.0		µg/l		20.0		110	70-130	2	20
1,2-Dichlorobenzene	21.1		µg/l		20.0		106	70-130	4	20
1,3-Dichlorobenzene	19.9		µg/l		20.0		100	70-130	6	20
1,4-Dichlorobenzene	20.1		µg/l		20.0		100	70-130	3	20
Dichlorodifluoromethane (Freon12)	19.8		µg/l		20.0		99	70-130	8	20
1,1-Dichloroethane	22.3		µg/l		20.0		112	70-130	5	20
1,2-Dichloroethane	21.4		µg/l		20.0		107	70-130	4	20
1,1-Dichloroethene	21.6		µg/l		20.0		108	70-130	5	20
cis-1,2-Dichloroethene	21.2		µg/l		20.0		106	70-130	2	20
trans-1,2-Dichloroethene	21.4		µg/l		20.0		107	70-130	5	20
1,2-Dichloropropane	21.4		µg/l		20.0		107	70-130	2	20
1,3-Dichloropropane	21.2		µg/l		20.0		106	70-130	4	20
2,2-Dichloropropane	24.8		µg/l		20.0		124	70-130	5	20
1,1-Dichloropropene	20.7		µg/l		20.0		104	70-130	5	20
cis-1,3-Dichloropropene	20.8		µg/l		20.0		104	70-130	4	20

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719759 - SW846 5030 Water MS										
LCS Dup (1719759-BSD1)					Prepared & Analyzed: 27-Nov-17					
trans-1,3-Dichloropropene	21.3		µg/l		20.0		107	70-130	4	20
Ethylbenzene	19.3		µg/l		20.0		97	70-130	5	20
Hexachlorobutadiene	17.8		µg/l		20.0		89	70-130	10	20
2-Hexanone (MBK)	20.1		µg/l		20.0		100	70-130	1	20
Isopropylbenzene	19.0		µg/l		20.0		95	70-130	8	20
4-Isopropyltoluene	18.9		µg/l		20.0		94	70-130	4	20
Methyl tert-butyl ether	23.2		µg/l		20.0		116	70-130	5	20
4-Methyl-2-pentanone (MIBK)	19.8		µg/l		20.0		99	70-130	2	20
Methylene chloride	21.6		µg/l		20.0		108	70-130	2	20
Naphthalene	19.6		µg/l		20.0		98	70-130	0.3	20
n-Propylbenzene	18.7		µg/l		20.0		94	70-130	3	20
Styrene	20.0		µg/l		20.0		100	70-130	1	20
1,1,1,2-Tetrachloroethane	20.4		µg/l		20.0		102	70-130	2	20
1,1,2,2-Tetrachloroethane	22.3		µg/l		20.0		112	70-130	2	20
Tetrachloroethene	21.1		µg/l		20.0		105	70-130	5	20
Toluene	21.8		µg/l		20.0		109	70-130	4	20
1,2,3-Trichlorobenzene	19.1		µg/l		20.0		95	70-130	6	20
1,2,4-Trichlorobenzene	20.1		µg/l		20.0		101	70-130	0.7	20
1,3,5-Trichlorobenzene	19.1		µg/l		20.0		96	70-130	5	20
1,1,1-Trichloroethane	21.8		µg/l		20.0		109	70-130	8	20
1,1,2-Trichloroethane	23.2		µg/l		20.0		116	70-130	1	20
Trichloroethene	20.0		µg/l		20.0		100	70-130	8	20
Trichlorofluoromethane (Freon 11)	21.7		µg/l		20.0		109	70-130	8	20
1,2,3-Trichloropropane	22.7		µg/l		20.0		114	70-130	1	20
1,2,4-Trimethylbenzene	18.2		µg/l		20.0		91	70-130	6	20
1,3,5-Trimethylbenzene	18.2		µg/l		20.0		91	70-130	5	20
Vinyl chloride	22.4		µg/l		20.0		112	70-130	9	20
m,p-Xylene	19.1		µg/l		20.0		96	70-130	4	20
o-Xylene	19.4		µg/l		20.0		97	70-130	4	20
Tetrahydrofuran	20.8		µg/l		20.0		104	70-130	3	20
Ethyl ether	22.2		µg/l		20.0		111	70-130	3	20
Tert-amyl methyl ether	20.4		µg/l		20.0		102	70-130	7	20
Ethyl tert-butyl ether	19.9		µg/l		20.0		99	70-130	1	20
Di-isopropyl ether	22.1		µg/l		20.0		110	70-130	4	20
Tert-Butanol / butyl alcohol	237		µg/l		200		118	70-130	0.7	20
1,4-Dioxane	188		µg/l		200		94	70-130	5	20
trans-1,4-Dichloro-2-butene	21.4		µg/l		20.0		107	70-130	0.05	20
Ethanol	437		µg/l		400		109	70-130	0.4	20
Surrogate: 4-Bromofluorobenzene	51.5		µg/l		50.0		103	70-130		
Surrogate: Toluene-d8	51.4		µg/l		50.0		103	70-130		
Surrogate: 1,2-Dichloroethane-d4	50.6		µg/l		50.0		101	70-130		
Surrogate: Dibromofluoromethane	50.5		µg/l		50.0		101	70-130		

Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW6010C</u>										
Batch 410136A - 410136-										
<u>BLK (BZ44000-BLK)</u>					<u>Prepared: 17-Nov-17 Analyzed: 18-Nov-17</u>					
Cadmium	< 0.001		mg/l	0.001				-		
Silver	< 0.001		mg/l	0.001				-		
Selenium	< 0.010		mg/l	0.010				-		
Chromium	< 0.001		mg/l	0.001				-		
Barium	< 0.002		mg/l	0.002				-		
Arsenic	< 0.004		mg/l	0.004				-		
Lead	< 0.002		mg/l	0.002				-		
<u>DUP (BZ44000-DUP)</u>					<u>Source: SC41581-06</u>		<u>Prepared: 17-Nov-17 Analyzed: 18-Nov-17</u>			
Selenium	< 0.010		mg/l	0.010		BRL		-	NC	20
Arsenic	0.008		mg/l	0.004				-	NC	20
Lead	0.006		mg/l	0.002				-	NC	20
Chromium	0.006		mg/l	0.001				-	15.4	20
Cadmium	< 0.001		mg/l	0.001		BRL		-	NC	20
Silver	< 0.001		mg/l	0.001		BRL		-	NC	20
Barium	0.083		mg/l	0.002				-	1.2	20
<u>LCS (BZ44000-LCS)</u>					<u>Prepared: 17-Nov-17 Analyzed: 18-Nov-17</u>					
Lead	1.929		mg/l	0.002	2		96.5	75-125		20
Arsenic	1.867		mg/l	0.004	2		93.4	75-125		20
Barium	0.9780		mg/l	0.002	1		97.8	75-125		20
Chromium	0.9786		mg/l	0.001	1		97.9	75-125		20
Selenium	0.8813		mg/l	0.010	1		88.1	75-125		20
Silver	0.2364		mg/l	0.001	0.25		94.6	75-125		20
Cadmium	0.9692		mg/l	0.001	1		96.9	75-125		20
<u>MS (BZ44000-MS)</u>					<u>Source: SC41581-06</u>		<u>Prepared: 17-Nov-17 Analyzed: 18-Nov-17</u>			
Barium	1.055		mg/l	0.002	1		97.3	75-125		20
Selenium	0.8926		mg/l	0.010	1	BRL	89.0	75-125		20
Lead	1.946		mg/l	0.002	2		97.0	75-125		20
Arsenic	1.912		mg/l	0.004	2		95.2	75-125		20
Chromium	0.9700		mg/l	0.001	1		96.3	75-125		20
Silver	0.2441		mg/l	0.001	0.25	BRL	97.7	75-125		20
Cadmium	0.9323		mg/l	0.001	1	BRL	93.2	75-125		20
Batch 410244A - 410244-										
<u>BLK (BZ44002-BLK)</u>					<u>Prepared: 18-Nov-17 Analyzed: 20-Nov-17</u>					
Selenium	< 0.010		mg/l	0.010				-		
Lead	< 0.002		mg/l	0.002				-		
Chromium	< 0.001		mg/l	0.001				-		
Cadmium	< 0.001		mg/l	0.001				-		
Barium	< 0.002		mg/l	0.002				-		
Arsenic	< 0.004		mg/l	0.004				-		
Silver	< 0.001		mg/l	0.001				-		
<u>DUP (BZ44002-DUP)</u>					<u>Source: SC41581-08</u>		<u>Prepared: 18-Nov-17 Analyzed: 20-Nov-17</u>			
Cadmium	0.004		mg/l	0.001				-	NC	20
Silver	< 0.001		mg/l	0.001		BRL		-	NC	20
Lead	0.179		mg/l	0.002				-	1.1	20
Arsenic	0.052		mg/l	0.004				-	8.0	20
Barium	0.464		mg/l	0.002				-	1.3	20
Selenium	< 0.010		mg/l	0.010		BRL		-	NC	20
Chromium	0.094		mg/l	0.001				-	2.2	20
<u>LCS (BZ44002-LCS)</u>					<u>Prepared: 18-Nov-17 Analyzed: 20-Nov-17</u>					
Silver	0.2538		mg/l	0.001	0.25		102	75-125		20

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW6010C</u>										
Batch 410244A - 410244-										
<u>LCS (BZ44002-LCS)</u>					<u>Prepared: 18-Nov-17 Analyzed: 20-Nov-17</u>					
Arsenic	2.023		mg/l	0.004	2		101	75-125		20
Selenium	0.9390		mg/l	0.010	1		93.9	75-125		20
Lead	2.133		mg/l	0.002	2		107	75-125		20
Chromium	1.045		mg/l	0.001	1		105	75-125		20
Barium	1.038		mg/l	0.002	1		104	75-125		20
Cadmium	1.045		mg/l	0.001	1		105	75-125		20
<u>MS (BZ44002-MS)</u>					<u>Source: SC41581-08</u>		<u>Prepared: 18-Nov-17 Analyzed: 20-Nov-17</u>			
Chromium	1.069		mg/l	0.001	1		97.7	75-125		20
Lead	2.257		mg/l	0.002	2		104	75-125		20
Silver	0.2701		mg/l	0.001	0.25	BRL	108	75-125		20
Cadmium	0.9825		mg/l	0.001	1		97.9	75-125		20
Barium	1.278		mg/l	0.002	1		82.0	75-125		20
Selenium	0.9400		mg/l	0.010	1	BRL	97.1	75-125		20
Arsenic	2.085		mg/l	0.004	2		102	75-125		20
<u>SW7470A</u>										
Batch 410262A - 410262-										
<u>BLK (BZ43944-BLK)</u>					<u>Prepared: 20-Nov-17 Analyzed: 21-Nov-17</u>					
Mercury	< 0.0002		mg/l	0.0002				-		
<u>DUP (BZ43944-DUP)</u>					<u>Source: BZ43944</u>		<u>Prepared: 20-Nov-17 Analyzed: 21-Nov-17</u>			
Mercury	< 0.0002		mg/l	0.0002				-	NC	20
<u>LCS (BZ43944-LCS)</u>					<u>Prepared: 20-Nov-17 Analyzed: 21-Nov-17</u>					
Mercury	0.0023		mg/l	0.0002	0.0025		91.2	80-120		20
<u>MS (BZ43944-MS)</u>					<u>Source: BZ43944</u>		<u>Prepared: 20-Nov-17 Analyzed: 21-Nov-17</u>			
Mercury	0.0022		mg/l	0.0002	0.0025		86.9	75-125		20
<u>SW8270D (SIM)</u>										
Batch 410104A - 410104-SW8270										
<u>BLK (BZ42103-BLK)</u>					<u>Prepared: 17-Nov-17 Analyzed: 20-Nov-17</u>					
Pyrene	ND		ug/l	0.02				-		
Chrysene	ND		ug/l	0.02				-		
Dibenz(a,h)anthracene	ND		ug/l	0.01				-		
Fluoranthene	ND		ug/l	0.04				-		
Fluorene	ND		ug/l	0.05				-		
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.02				-		
Phenanthrene	ND		ug/l	0.05				-		
2-Methylnaphthalene	ND		ug/l	0.05				-		
Benzo(k)fluoranthene	ND		ug/l	0.02				-		
Naphthalene	ND		ug/l	0.05				-		
Benzo(b)fluoranthene	ND		ug/l	0.02				-		
Benzo(a)pyrene	ND		ug/l	0.02				-		
Benz(a)anthracene	ND		ug/l	0.02				-		
Anthracene	ND		ug/l	0.02				-		
Acenaphthylene	ND		ug/l	0.04				-		
Acenaphthene	ND		ug/l	0.05				-		
Benzo(ghi)perylene	ND		ug/l	0.02				-		
Surrogate: % 2-Fluorobiphenyl	54		ug/l		5			30-130		
Surrogate: % Nitrobenzene-d5	58		ug/l		5			30-130		
Surrogate: % Terphenyl-d14	74		ug/l		5			30-130		
<u>LCS (BZ42103-LCS)</u>					<u>Prepared: 17-Nov-17 Analyzed: 21-Nov-17</u>					
Benzo(k)fluoranthene	7.237		ug/l	0.02	10		72	30-130		20

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW8270D (SIM)</u>										
Batch 410104A - 410104-SW8270										
<u>LCS (BZ42103-LCS)</u>					<u>Prepared: 17-Nov-17 Analyzed: 21-Nov-17</u>					
Pyrene	7.202		ug/l	0.02	10		72	30-130		20
Chrysene	6.618		ug/l	0.02	10		66	30-130		20
Dibenz(a,h)anthracene	7.657		ug/l	0.01	10		77	30-130		20
Fluoranthene	7.149		ug/l	0.04	10		71	30-130		20
Fluorene	6.808		ug/l	0.05	10		68	30-130		20
Indeno(1,2,3-cd)pyrene	6.982		ug/l	0.02	10		70	30-130		20
Phenanthrene	6.567		ug/l	0.05	10		66	30-130		20
Benz(a)anthracene	7.399		ug/l	0.02	10		74	30-130		20
Naphthalene	4.993		ug/l	0.05	10		50	30-130		20
Benzo(a)pyrene	6.740		ug/l	0.02	10		67	30-130		20
Anthracene	7.113		ug/l	0.02	10		71	30-130		20
Acenaphthylene	6.692		ug/l	0.04	10		67	30-130		20
Acenaphthene	6.462		ug/l	0.05	10		65	30-130		20
2-Methylnaphthalene	7.364		ug/l	0.05	10		74	30-130		20
Benzo(ghi)perylene	6.261		ug/l	0.02	10		63	30-130		20
Benzo(b)fluoranthene	7.628		ug/l	0.02	10		76	30-130		20
Surrogate: % 2-Fluorobiphenyl	2.976		ug/l		5		60	30-130		
Surrogate: % Terphenyl-d14	4.054		ug/l		5		81	30-130		
Surrogate: % Nitrobenzene-d5	2.576		ug/l		5		52	30-130		
<u>LCSD (BZ42103-LCSD)</u>					<u>Prepared: 17-Nov-17 Analyzed: 21-Nov-17</u>					
Benzo(k)fluoranthene	7.399		%	%	10		74	30-130	2.7	20
Chrysene	6.786		%	%	10		68	30-130	3.0	20
Dibenz(a,h)anthracene	7.956		%	%	10		80	30-130	3.8	20
Fluorene	6.790		%	%	10		68	30-130	0.0	20
Naphthalene	5.067		%	%	10		51	30-130	2.0	20
Benzo(ghi)perylene	6.510		%	%	10		65	30-130	3.1	20
Pyrene	7.329		%	%	10		73	30-130	1.4	20
Fluoranthene	7.233		%	%	10		72	30-130	1.4	20
Phenanthrene	6.630		%	%	10		66	30-130	0.0	20
Benzo(a)pyrene	6.887		%	%	10		69	30-130	2.9	20
Benz(a)anthracene	7.608		%	%	10		76	30-130	2.7	20
Anthracene	7.138		%	%	10		71	30-130	0.0	20
Acenaphthylene	6.804		%	%	10		68	30-130	1.5	20
Acenaphthene	6.494		%	%	10		65	30-130	0.0	20
2-Methylnaphthalene	7.464		%	%	10		75	30-130	1.3	20
Indeno(1,2,3-cd)pyrene	7.395		%	%	10		74	30-130	5.6	20
Benzo(b)fluoranthene	7.598		%	%	10		76	30-130	0.0	20
Surrogate: % 2-Fluorobiphenyl	2.913		%		5		58	30-130		
Surrogate: % Terphenyl-d14	3.960		%		5		79	30-130		
Surrogate: % Nitrobenzene-d5	2.841		%		5		57	30-130		
<u>MS (BZ42103-MS)</u>					Source: BZ42103	<u>Prepared: 17-Nov-17 Analyzed: 22-Nov-17</u>				
Benzo(k)fluoranthene	6.306		ug/l	0.02	10		63	30-130		20
Chrysene	5.869		ug/l	0.02	10		59	30-130		20
Dibenz(a,h)anthracene	6.161		ug/l	0.01	10		62	30-130		20
Fluoranthene	7.480		ug/l	0.04	10		75	30-130		20
Fluorene	6.376		ug/l	0.05	10		64	30-130		20
Indeno(1,2,3-cd)pyrene	5.708		ug/l	0.02	10		57	30-130		20
Benzo(ghi)perylene	5.097		ug/l	0.02	10		51	30-130		20
Phenanthrene	6.372		ug/l	0.05	10		64	30-130		20
2-Methylnaphthalene	6.850		ug/l	0.05	10		69	30-130		20

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW8270D (SIM)</u>										
Batch 410104A - 410104-SW8270										
<u>MS (BZ42103-MS)</u>				<u>Source: BZ42103</u>			<u>Prepared: 17-Nov-17</u>	<u>Analyzed: 22-Nov-17</u>		
Naphthalene	4.391		ug/l	0.05	10		44	30-130		20
Benzo(b)fluoranthene	6.776		ug/l	0.02	10		68	30-130		20
Benzo(a)pyrene	5.643		ug/l	0.02	10		56	30-130		20
Benz(a)anthracene	6.821		ug/l	0.02	10		68	30-130		20
Anthracene	6.636		ug/l	0.02	10		66	30-130		20
Acenaphthene	5.916		ug/l	0.05	10		59	30-130		20
Pyrene	7.749		ug/l	0.02	10		77	30-130		20
Acenaphthylene	6.146		ug/l	0.04	10		61	30-130		20
Surrogate: % Terphenyl-d14	3.993		ug/l		5		80	30-130		
Surrogate: % Nitrobenzene-d5	2.344		ug/l		5		47	30-130		
Surrogate: % 2-Fluorobiphenyl	2.629		ug/l		5		53	30-130		

Notes and Definitions

D	Data reported from a dilution
GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
J	Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
QM9	The spike recovery for this QC sample is outside the established control limits. The sample results for the QC batch were accepted based on LCS/LCSD or SRM recoveries within the control limits.
QR2	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
U	Analyte included in the analysis, but not detected at or above the MDL.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Batch Summary

1719532

Volatile Organic Compounds

1719532-BLK1
1719532-BS1
1719532-BSD1
SC41581-01 (TW-6)
SC41581-02 (TW-7)
SC41581-03 (TW-9)
SC41581-05 (TW-11)
SC41581-06 (TW-8)
SC41581-07 (TW-5)
SC41581-08 (TW-12)
SC41581-09 (Trip Blank)

1719759

Volatile Organic Compounds

1719759-BLK1
1719759-BS1
1719759-BSD1
SC41581-04 (TW-10)

410104A

Subcontracted Analyses

BZ42103-BLK
BZ42103-LCS
BZ42103-LCSD
BZ42103-MS
SC41581-01 (TW-6)
SC41581-02 (TW-7)
SC41581-05 (TW-11)
SC41581-06 (TW-8)
SC41581-07 (TW-5)
SC41581-08 (TW-12)

410136A

Subcontracted Analyses

BZ44000-BLK
BZ44000-DUP
BZ44000-LCS
BZ44000-MS
SC41581-01 (TW-6)
SC41581-02 (TW-7)
SC41581-06 (TW-8)

410244A

Subcontracted Analyses

BZ44002-BLK
BZ44002-DUP
BZ44002-LCS
BZ44002-MS
SC41581-08 (TW-12)

410262A

Subcontracted Analyses

BZ43944-BLK
BZ43944-DUP
BZ43944-LCS
BZ43944-MS
SC41581-01 (TW-6)
SC41581-02 (TW-7)
SC41581-06 (TW-8)
SC41581-08 (TW-12)

S710164

Volatile Organic Compounds

S710164-CAL1
S710164-CAL2
S710164-CAL3
S710164-CAL4
S710164-CAL5
S710164-CAL6
S710164-CAL7
S710164-CAL8
S710164-CAL9
S710164-ICV1
S710164-LCV1
S710164-LCV2
S710164-TUN1

S710225

Volatile Organic Compounds

S710225-CAL1
S710225-CAL2
S710225-CAL3
S710225-CAL4
S710225-CAL5
S710225-CAL6
S710225-CAL7
S710225-CAL8
S710225-CAL9
S710225-CALA
S710225-CALB
S710225-ICV1
S710225-LCV1
S710225-LCV2
S710225-TUN1

S710237

Volatile Organic Compounds

S710237-CCV1
S710237-TUN1

S710339

Volatile Organic Compounds

S710339-CCV1

S710339-TUN1

APPENDIX F

SITE PHOTOS

Appendix F - Site Photographs

Former Mele Manufacturing Site - Utica, New York



Photo 1 - Southwest (upper) portion of Site, looking west

Appendix F - Site Photographs

Former Mele Manufacturing Site - Utica, New York



Photo 2 - Southeast (upper) portion of Site, looking southwest

Appendix F - Site Photographs

Former Mele Manufacturing Site - Utica, New York



Photo 3 - Northern (lower) portion of Site, looking east

Appendix F - Site Photographs
Former Mele Manufacturing Site - Utica, New York



Photo 4 - Concrete slab in eastern-central (upper) portion of Site

Appendix F - Site Photographs

Former Mele Manufacturing Site - Utica, New York



Photo 5 - Concrete slab in eastern-central portion of Site. Note elevation difference between upper and lower portions of Site.