Consulting Engineers and Scientists

October 11, 2016
Project 1600780

VIA EMAIL: mouber@bscr-law.com

Mr. Bryan Mouber
Baker Sterchi Cowden & Rice, LLC
2400 Pershing Road, Suite 500
Kansas City, Missouri 64108-2533

Dear Mr. Mouber:

Re: Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

GEI Consultants, Inc. (GEI) is pleased to submit this letter report summarizing groundwater investigation activities at the Zill, LLC property, located at 3816 E 31st Street in Kansas City, Missouri, as well as neighboring properties to the west and north (the Site) (Figure 1).

Investigation

From August 1 through August 5, 2016, GEI conducted an investigation at the Site. Investigation activities included well gauging, well development, groundwater sampling, and a supplemental monitoring well survey.

Well Gauging

On August 1, 2016, prior to any sampling or development activities, GEI gauged 34 monitoring wells to measure depth to groundwater and check for the presence of light non-aqueous phase liquid (LNAPL) (Table 1). Monitoring well locations are shown in Figure 1.

GEI measured the depth to water and/or LNAPL using Heron oil-water interface probes, which were decontaminated after each well to prevent cross-contamination. Separate probes were used for wells with historic measurements of LNAPL and those with no previous detection of LNAPL. Depth measurements were recorded from the north side of the top of PVC casing at each well.

Well Development

On August 1 and August 2, 2016, GEI developed 10 wells at the Site which had no records of being previously developed (MW-17 through MW-26). Well development was performed in accordance with US EPA Response Team Standard Operating Procedure 2044, dated October 23, 2001.

GEI developed the wells using surge plugs and disposable bailers. The surge plugs were inserted to the bottom of each well to give the well an initial surge and disturb any sediment accumulated

GEI Consultants, Inc.
1862 Keller Parkway, Keller, TX 76248
817.380.3888 fax: 817.887.3783

in the well and sand pack. Each well was surged prior to purging the necessary volume of water from the well. Purging was completed using a disposable Teflon bailer and nylon string.

During development, GEI periodically measured turbidity using a LaMotte 2020 handheld turbidity meter. Wells were purged until one of the following conditions was met:

- Turbidity <50 nephelometric turbidity units (NTU), with a minimum of 3 well casing volumes purged.
- A maximum of 10 well casing volumes were removed (if turbidity was >50 NTU).
- The well was dry.

Groundwater Sampling

From August 2 through August 5, 2016, GEI sampled 23 monitoring wells at the Site. Wells were purged using low flow groundwater sampling methods in accordance with US EPA Procedure SESDPROC-301-R3, dated March 6, 2013.

GEI used a peristaltic pump for low flow purging. Tubing was lowered to the mid-point of the saturated screen interval. A water level indicator (or an oil-water interface probe in a well containing LNAPL) was used to periodically measure the water level in the well during purging. Purge rates were adjusted to minimize drawdown to the extent feasible.

During low flow purging a YSI meter was used to measure temperature, pH, specific conductivity, dissolved oxygen (DO), and oxidation-reduction potential (ORP). In addition, a LaMotte 2020 handheld turbidity meter was used to measure turbidity. Readings for all parameters were recorded every 3 to 5 minutes and the wells were purged until parameters stabilized. In general, stabilization criteria consisted of a minimum of three consecutive readings within the following ranges:

- pH (+/-0.1 standard units)
- Specific conductivity (<5% mS/cm)
- DO (<10% mg/L)
- Turbidity (< 10 NTU)

Upon stabilization, wells were sampled for the following analyses using the low flow method:

- EPA 8270 (semi-volatile organic compounds)
- Priority Pollutants Metals
- EPA 6010 Metals (iron, manganese, calcium, sodium, potassium, magnesium)
- Nitrate
- Sulfate
- Sulfide
- Chloride

- Bicarbonate
- Bromide
- Ammonia
- Phosphate
- Total Dissolved Solids
- Alkalinity

If groundwater parameters met stabilization criteria, but turbidity remained greater than 10 NTU, a 0.45 µm in-line filter was used to collect additional samples for EPA 8270, priority pollutant metals, and EPA 6010 analyses.

After filling the necessary laboratory glassware for the analyses listed above, groundwater was submitted to a certified laboratory for analysis by EPA 8260 (volatile organic compounds [VOCs]). VOC samples were collected using disposable Teflon® bailers in accordance with US EPA Procedure SESDPROC-301-R3, Section 2.1 dated March 6, 2013, and Missouri DNR Standards. If the total volume purged to that point was not equal to 3 well casing volumes, additional water was purged using the bailer or peristaltic pump prior to collecting the VOC sample.

GEI also collected quality control samples throughout the groundwater sampling event:

- One field duplicate (MW-18).
- Four field blanks (one for each day of sampling) for analysis of EPA 8260.
- Two equipment rinsate blanks at the end of the sampling event for EPA 8260 and 8270.

Groundwater samples were packed with ice and shipped overnight to Test America's Savannah, Georgia laboratory.

Monitoring Well Survey

On August 3, 2016, SKW of Kansas City, Missouri surveyed five of the wells onsite (MW-F, MW-9, MW-15, MW-19, and MW-23) and Kansas City Water Services sewer manhole number 233 (S057-233) near the Zill, LLC property. The north rim of the sewer manhole was previously used as a benchmark for site surveys. These data were used to convert the existing top of casing and ground surface elevations data for these wells from site-specific elevations to the North American Vertical Datum of 1988 (NAVD88).

Results

Gauging

Gauging results are presented in Table 1. Twenty six monitoring wells contained no measurable LNAPL. Eight monitoring wells contained measurable LNAPL. Four of the wells contained measurable LNAPL thicknesses of 0.01 foot. Three of the wells contained measurable LNAPL thicknesses between 0.03 and 0.05 foot, one well contained a measurable LNAPL thickness of

0.27 foot. In addition, one well (MW-23) did not contain a measurable thickness of LNAPL; however, there was evidence of LNAPL on the oil-water interface probe (i.e., blebs of LNAPL).

Groundwater

Laboratory analytical results for groundwater are presented in Table 2. Laboratory data reports are included in Attachment 1 and the GEI laboratory data review and validation is included in Attachment 2.

In wells where turbidity was greater than 10 NTU during sampling, an additional set of EPA 8270 and metals samples were collected using a 0.45 µm in-line filter. The analytical results for these filtered samples are presented on the table under "Semivolatile Organic Compounds – Dissolved" and "Metals – Dissolved."

Sincerely,

GEI CONSULTANTS, INC.

J. Michael Hawthorne, P.G.
Principal / Vice President

Gaylen M. Brubaker, Ph.D.
Senior Consultant

William H. Walton, P.E. (MO)
Senior Vice President

STATE OF MISSOURI
WILLIAM
H. WALTON
E-2001006056
REGISTERED PROFESSIONAL ENGINEER

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Tables

Table 1. Well Gauging
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

Well ID	Measured Depth to LNAPL (ft)	Measured Depth to Water (ft)	Measured LNAPL Thickness	Measured Depth to Bottom (ft)	Well Measure-ment Point	Measured By	Water Level Indicator Serial #	Comments
GSP-6	ND	10.7	NA	29.56	Top of PVC	DKC	31210	
GSP-9	ND	7.78	NA	24.89	Top of PVC	DKC	31210	
GSP-10	ND	22.61	NA	34.72	Top of PVC	DKC	31210	soft at bottom of well
MW-1	ND	10.09	NA	13.94	Top of PVC	DKC	31210	
MW-3	ND	6.48	NA	13.85	Top of PVC	DKC	31210	
MW-4	ND	7.56	NA	12.18	Top of PVC	DKC	31210	
MW-7	ND	10.25	NA	14.26	Top of PVC	DKH	29652	
MW-9	11.11	11.12	0.01	13.18	Top of PVC	DKC	31210	
MW-10	11.93	11.98	0.05	13.98	Top of PVC	DKH	29652	silt on probe
MW-11	14.49	14.5	0.01	20.02	Top of PVC	DKH	29652	silt on probe
MW-12	ND	14.97	NA	21.74	Top of PVC	DKC	31210	soft bottom, silt on probe
MW-13	ND	9.75	NA	16.57	Top of PVC	DKC	31210	soft bottom, silt on probe
MW-15	ND	8.97	NA	9.89	Top of PVC	DKC	31210	hard bottom
MW-16	ND	11.59	NA	16.06	Top of PVC	DKC	31210	hard bottom
MW-17	ND	5.84	NA	9.98	Top of PVC	DKC	31210	well pad loose
MW-18	ND	11.86	NA	19.88	Top of PVC	DKH	29652	
MW-19	ND	15.24	NA	25.95	Top of PVC	DKC	31210	soft bottom, silt on probe
MW-20	4.57	4.60	0.03	14.51	Top of PVC	DKH	29652	
MW-21	ND	10.81	NA	19.97	Top of PVC	DKH	29652	
MW-22	7.66	7.93	0.27	NM	Top of PVC	DKH	29652	
MW-23	ND	7.12	NA	14.9	Top of PVC	DKH	29652	some product on probe
MW-24	ND	9.25	NA	20.33	Top of PVC	DKC	31210	
MW-25	ND	10.03	NA	19.28	Top of PVC	DKC	31210	
MW-26	ND	9.71	NA	20.47	Top of PVC	DKC	31210	
MW-A	ND	13.02	NA	20.99	Top of PVC	DKC	31210	
MW-B	11.79	11.80	0.01	20.14	Top of PVC	DKH	29652	
MW-C	ND	10.12	NA	17.14	Top of PVC	DKC	31210	soft bottom
MW-D	ND	12.80	NA	18.76	Top of PVC	DKC	31210	soft bottom
MW-E	ND	7.48	NA	17.28	Top of PVC	DKC	31210	silt on probe
MW-F	ND	11.14	NA	15.19	Top of PVC	DKC	31210	
OW-N	10.51	10.52	0.01	11.18	Top of PVC	DKH	29652	silt on probe
OW-S	10.44	10.48	0.04	11.13	Top of PVC	DKH	29652	silt on probe
RW-1	ND	7.88	NA	13.65	Top of PVC	DKH	29652	slight sheen on probe
RW-2	ND	4.16	NA	12.49	Top of PVC	DKH	29652	

General Notes:

1. Measurement Point Top of PVC taken from North Side.
2. LNAPL = light non-aqueous phase liquid.
3. ND = not detected.
4. NA = not applicable.
5. NM = not measured.
6. ft = feet
7. DKH = Drew Harding, DKC = Dan Carlson
8. Oil-Water Interface probes were manufactured by Heron (Model H-oil).

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	GSP-09 1600780-GSP-9 8/3/2016
Analyte	**Method**	**Units**	**CAS No.**	
Volatile Organic Compounds (VOCs)	SW 8260B	ug/L		
Acetone			67-64-1	< 10
Benzene			71-43-2	**2**
Bromobenzene			108-86-1	< 1
Bromochloromethane			74-97-5	< 1
Bromodichloromethane			75-27-4	< 1
Bromoform			75-25-2	< 1
Bromomethane			74-83-9	< 5
n-Butylbenzene			104-51-8	< 1
sec-Butylbenzene			135-98-8	< 1
tert-Butylbenzene			98-06-6	< 1
Carbon disulfide			75-15-0	< 2
Carbon tetrachloride			56-23-5	< 1
Chlorobenzene			108-90-7	< 1
Chloroethane			75-00-3	< 5
Chloroform (Trichloromethane)			67-66-3	< 1
Chloromethane			74-87-3	< 1
2-Chlorotoluene (o-Chlorotoluene)			95-49-8	< 1
4-Chlorotoluene (p-Chlorotoluene)			106-43-4	< 1
p-Cymene (4-Isopropyltoluene)			99-87-6	< 1
Dibromochloromethane			124-48-1	< 1
Dibromomethane			74-95-3	< 1
Dichlorodifluoromethane (Freon 12)			75-71-8	< 1
1,1-Dichloroethane			75-34-3	< 1
1,2-Dichloroethane			107-06-2	< 1
1,1-Dichloroethene			75-35-4	< 1

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Zill, LLC
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			Location Name Sample Name Sample Date Parent Sample	GSP-09 1600780-GSP-9 8/3/2016
Analyte	**Method**	**Units**	**CAS No.**	
Total 1,2-Dichloroethene			540-59-0	< 2
cis-1,2-Dichloroethene			156-59-2	< 1
trans-1,2-Dichloroethene			156-60-5	< 1
1,2-Dichloropropane			78-87-5	< 1
1,3-Dichloropropane			142-28-9	< 1
2,2-Dichloropropane			594-20-7	< 1
1,1-Dichloropropene			563-58-6	< 1
cis-1,3-Dichloropropene			10061-01-5	< 1
trans-1,3-Dichloropropene			10061-02-6	< 1
Ethylbenzene			100-41-4	< 1
2-Hexanone			591-78-6	< 10
Isopropylbenzene			98-82-8	< 1
Methyl ethyl ketone (2-Butanone)			78-93-3	< 10
Methyl tert-butyl ether (MTBE)			1634-04-4	< 10
4-Methyl-2-pentanone (MIBK)			108-10-1	< 10
Methylene chloride			75-09-2	< 5
n-Propylbenzene			103-65-1	< 1
Styrene			100-42-5	< 1
1,1,1,2-Tetrachloroethane			630-20-6	< 1
1,1,2,2-Tetrachloroethane			79-34-5	< 1
Tetrachloroethene (PCE)			127-18-4	< 1
Toluene			108-88-3	< 1
1,2,3-Trichlorobenzene			87-61-6	< 5
1,1,1-Trichloroethane (TCA)			71-55-6	< 1
1,1,2-Trichloroethane			79-00-5	< 1
Trichloroethene (TCE)			79-01-6	< 1

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			Location Name Sample Name Sample Date Parent Sample	GSP-09 1600780-GSP-9 8/3/2016
Analyte	**Method**	**Units**	**CAS No.**	
Trichlorofluoromethane (Freon 11)			75-69-4	< 1
1,2,4-Trimethylbenzene			95-63-6	< 1
1,3,5-Trimethylbenzene			108-67-8	< 1
Vinyl acetate			108-05-4	< 2
Vinyl chloride			75-01-4	< 1
o-Xylene			95-47-6	< 1
m/p-Xylene			179601-23-1	**0.37 J**
Total Xylene			1330-20-7	**0.37 J**
Semi-Volatile Organic Compounds (SVOCs)	SW 8270D	ug/L		
Acenaphthene			83-32-9	< 0.19
Acenaphthylene			208-96-8	< 0.19
Acetophenone			98-86-2	< 0.95
Anthracene			120-12-7	< 0.19
Atrazine			1912-24-9	< 3.8
Benzaldehyde			100-52-7	< 0.95
Benzo(a)anthracene			56-55-3	**0.19**
Benzo(b)fluoranthene			205-99-2	**0.2**
Benzo(k)fluoranthene			207-08-9	**0.22**
Benzo(g,h,i)perylene			191-24-2	**0.21**
Benzo(a)pyrene			50-32-8	**0.19**
Biphenyl (1,1-Biphenyl)			92-52-4	< 0.95
Bis(2-chloroethoxy)methane			111-91-1	< 0.95
Bis(2-chloroethyl)ether			111-44-4	< 0.95
2,2-oxybis(1-Chloropropane)			108-60-1	< 0.95
Bis(2-ethylhexyl)phthalate			117-81-7	4.8
4-Bromophenyl phenyl ether			101-55-3	< 0.95

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			Location Name Sample Name Sample Date Parent Sample	GSP-09 1600780-GSP-9 8/3/2016
Analyte	**Method**	**Units**	**CAS No.**	
Butyl benzyl phthalate			85-68-7	**0.12 J**
Caprolactam			105-60-2	< 0.95
Carbazole			86-74-8	< 1.9
4-Chloro-3-methylphenol			59-50-7	< 0.95
4-Chloroaniline			106-47-8	< 3.8
2-Chloronaphthalene			91-58-7	< 0.95
2-Chlorophenol			95-57-8	< 0.95
4-Chlorophenyl phenyl ether			7005-72-3	< 0.95
Chrysene			218-01-9	**0.21**
Dibenz(a,h)anthracene			53-70-3	**0.27**
Dibenzofuran			132-64-9	< 0.95
3,3-Dichlorobenzidine			91-94-1	< 19
2,4-Dichlorophenol			120-83-2	< 0.95
Diethyl phthalate			84-66-2	< 0.95
Dimethyl phthalate			131-11-3	< 0.95
2,4-Dimethylphenol			105-67-9	< 1.9
Di-n-butyl phthalate			84-74-2	< 0.95
4,6-Dinitro-2-methylphenol			534-52-1	< 4.8
2,4-Dinitrophenol			51-28-5	< 9.5
2,4-Dinitrotoluene			121-14-2	< 0.95
2,6-Dinitrotoluene			606-20-2	< 0.95
Di-n-octyl phthalate			117-84-0	< 0.95
Fluoranthene			206-44-0	< 0.19
Fluorene			86-73-7	< 0.19
Hexachlorobenzene			118-74-1	< 0.95
1,3-Hexachlorobutadiene (C-46)			87-68-3	< 0.95

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			Location Name Sample Name Sample Date Parent Sample	GSP-09 1600780-GSP-9 8/3/2016
Analyte	**Method**	**Units**	**CAS No.**	
Hexachlorocyclopentadiene			77-47-4	< 1.9
Hexachloroethane			67-72-1	< 0.95
Indeno(1,2,3-cd)pyrene			193-39-5	**0.21**
Isophorone			78-59-1	< 0.95
2-Methylnaphthalene			91-57-6	< 0.19
2-Methylphenol (o-Cresol)			95-48-7	< 1.9
3,4-Methylphenol (m,p-Cresol)			108394/106445	< 1.9
Naphthalene			91-20-3	< 0.19
2-Nitroaniline			88-74-4	< 0.95
3-Nitroaniline			99-09-2	< 4.8
4-Nitroaniline			100-01-6	< 4.8
Nitrobenzene			98-95-3	< 0.95
2-Nitrophenol			88-75-5	< 0.95
4-Nitrophenol			100-02-7	< 7.6
N-Nitrosodiphenylamine (NDFA)			86-30-6	< 0.95
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	< 0.95
Pentachlorophenol			87-86-5	< 4.8
Phenanthrene			85-01-8	< 0.19
Phenol			108-95-2	**0.13 J**
Pyrene			129-00-0	< 0.19
2,4,5-Trichlorophenol			95-95-4	< 0.95
2,4,6-Trichlorophenol			88-06-2	< 0.95
Semi-Volatile Organic Compounds (SVOCs) - Dissolved	SW 8270D	ug/L		NT
Acenaphthene			83-32-9	
Acenaphthylene			208-96-8	
Acetophenone			98-86-2	

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			Location Name Sample Name Sample Date Parent Sample	GSP-09 1600780-GSP-9 8/3/2016
Analyte	**Method**	**Units**	**CAS No.**	
Anthracene			120-12-7	
Atrazine			1912-24-9	
Benzaldehyde			100-52-7	
Benzo(a)anthracene			56-55-3	
Benzo(b)fluoranthene			205-99-2	
Benzo(k)fluoranthene			207-08-9	
Benzo(g,h,i)perylene			191-24-2	
Benzo(a)pyrene			50-32-8	
Biphenyl (1,1-Biphenyl)			92-52-4	
Bis(2-chloroethoxy)methane			111-91-1	
Bis(2-chloroethyl)ether			111-44-4	
2,2-oxybis(1-Chloropropane)			108-60-1	
Bis(2-ethylhexyl)phthalate			117-81-7	
4-Bromophenyl phenyl ether			101-55-3	
Butyl benzyl phthalate			85-68-7	
Caprolactam			105-60-2	
Carbazole			86-74-8	
4-Chloro-3-methylphenol			59-50-7	
4-Chloroaniline			106-47-8	
2-Chloronaphthalene			91-58-7	
2-Chlorophenol			95-57-8	
4-Chlorophenyl phenyl ether			7005-72-3	
Chrysene			218-01-9	
Dibenz(a,h)anthracene			53-70-3	
Dibenzofuran			132-64-9	
3,3-Dichlorobenzidine			91-94-1	

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			Location Name	GSP-09
			Sample Name	1600780-GSP-9
			Sample Date	8/3/2016
			Parent Sample	
Analyte	**Method**	**Units**	**CAS No.**	
2,4-Dichlorophenol			120-83-2	
Diethyl phthalate			84-66-2	
Dimethyl phthalate			131-11-3	
2,4-Dimethylphenol			105-67-9	
Di-n-butyl phthalate			84-74-2	
4,6-Dinitro-2-methylphenol			534-52-1	
2,4-Dinitrophenol			51-28-5	
2,4-Dinitrotoluene			121-14-2	
2,6-Dinitrotoluene			606-20-2	
Di-n-octyl phthalate			117-84-0	
Fluoranthene			206-44-0	
Fluorene			86-73-7	
Hexachlorobenzene			118-74-1	
1,3-Hexachlorobutadiene (C-46)			87-68-3	
Hexachlorocyclopentadiene			77-47-4	
Hexachloroethane			67-72-1	
Indeno(1,2,3-cd)pyrene			193-39-5	
Isophorone			78-59-1	
2-Methylnaphthalene			91-57-6	
2-Methylphenol (o-Cresol)			95-48-7	
3,4-Methylphenol (m,p-Cresol)			108394/106445	
Naphthalene			91-20-3	
2-Nitroaniline			88-74-4	
3-Nitroaniline			99-09-2	
4-Nitroaniline			100-01-6	
Nitrobenzene			98-95-3	

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			Location Name Sample Name Sample Date Parent Sample	GSP-09 1600780-GSP-9 8/3/2016
Analyte	**Method**	**Units**	**CAS No.**	
2-Nitrophenol			88-75-5	
4-Nitrophenol			100-02-7	
N-Nitrosodiphenylamine (NDFA)			86-30-6	
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	
Pentachlorophenol			87-86-5	
Phenanthrene			85-01-8	
Phenol			108-95-2	
Pyrene			129-00-0	
2,4,5-Trichlorophenol			95-95-4	
2,4,6-Trichlorophenol			88-06-2	
Metals - Total	SW 6010C	ug/L		
Antimony			7440-36-0	< 20
Arsenic			7440-38-2	7.8 J
Beryllium			7440-41-7	< 4
Cadmium			7440-43-9	< 5
Calcium			7440-70-2	**280000**
Chromium			7440-47-3	< 10
Copper			7440-50-8	< 20
Iron			7439-89-6	**690**
Lead			7439-92-1	< 10
Magnesium			7439-95-4	**54000**
Manganese			7439-96-5	**480**
Mercury			7439-97-6	< 0.2
Nickel			7440-02-0	**6.6 J**
Potassium			7440-09-7	**7900**
Selenium			7782-49-2	< 20

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			Location Name Sample Name Sample Date Parent Sample	GSP-09 1600780-GSP-9 8/3/2016
Analyte	**Method**	**Units**	**CAS No.**	
Silver			7440-22-4	< 10
Sodium			7440-23-5	**190000**
Thallium			7440-28-0	< 25
Zinc			7440-66-6	< 20
Metals - Dissolved	SW 6010C	ug/L		NT
Antimony			7440-36-0	
Arsenic			7440-38-2	
Beryllium			7440-41-7	
Cadmium			7440-43-9	
Calcium			7440-70-2	
Chromium			7440-47-3	
Copper			7440-50-8	
Iron			7439-89-6	
Lead			7439-92-1	
Magnesium			7439-95-4	
Manganese			7439-96-5	
Mercury			7439-97-6	
Nickel			7440-02-0	
Potassium			7440-09-7	
Selenium			7782-49-2	
Silver			7440-22-4	
Sodium			7440-23-5	
Thallium			7440-28-0	
Zinc			7440-66-6	
Other				
Alkalinity	SM 2320B	mg/L	ALK	**430 J**

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	GSP-09 1600780-GSP-9 8/3/2016
Analyte	**Method**	**Units**	**CAS No.**	
Ammonia	EPA 350.1	mg/L	7664-41-7	**0.15 J**
Bicarbonate alkalinity as CaCO3	SM 2320B	mg/L	HCO3	**430 J**
Bromide	EPA 300.0	mg/L	24959-67-9	**0.4 J**
Chloride	EPA 300.0	mg/L	16887-00-6	**320**
Nitrate as Nitrogen	EPA 300.0	mg/L	14797-55-8	< 0.05
Sulfate	EPA 300.0	mg/L	14808-79-8	**300**
Sulfide	EPA 376.1	mg/L	18496-25-8	< 1
Total Dissolved Solids	SM 2540C	mg/L	TDS	**1500**
Total Phosphorous	EPA 365.4	mg/L	7723-14-0	**0.042 J**

General Notes:
1. Analytes in blue are not detected in any sample.
2. Bolding indicates a detected result concentration.
3. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
4. mg/L = milligrams/liter.
5. ug/L = micrograms per liter or parts per billion (ppb).
6. CAS No. = Chemical Abstracts Service Number.
7. NT = The sample was not tested for this analyte.

Validation Qualifiers:
J The result is an estimated value.
R The result is rejected.
UJ The results was not detected at or above the reporting limit shown and the reporting limit is estimated.
+/- Result may be biased high/low, respectively.

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	GSP-10 1600780-GSP-10 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Volatile Organic Compounds (VOCs)	SW 8260B	ug/L		
Acetone			67-64-1	
Benzene			71-43-2	
Bromobenzene			108-86-1	
Bromochloromethane			74-97-5	
Bromodichloromethane			75-27-4	
Bromoform			75-25-2	
Bromomethane			74-83-9	
n-Butylbenzene			104-51-8	
sec-Butylbenzene			135-98-8	
tert-Butylbenzene			98-06-6	
Carbon disulfide			75-15-0	
Carbon tetrachloride			56-23-5	
Chlorobenzene			108-90-7	
Chloroethane			75-00-3	
Chloroform (Trichloromethane)			67-66-3	
Chloromethane			74-87-3	
2-Chlorotoluene (o-Chlorotoluene)			95-49-8	
4-Chlorotoluene (p-Chlorotoluene)			106-43-4	
p-Cymene (4-Isopropyltoluene)			99-87-6	
Dibromochloromethane			124-48-1	
Dibromomethane			74-95-3	
Dichlorodifluoromethane (Freon 12)			75-71-8	
1,1-Dichloroethane			75-34-3	
1,2-Dichloroethane			107-06-2	
1,1-Dichloroethene			75-35-4	

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	GSP-10 1600780-GSP-10 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Total 1,2-Dichloroethene			540-59-0	
cis-1,2-Dichloroethene			156-59-2	
trans-1,2-Dichloroethene			156-60-5	
1,2-Dichloropropane			78-87-5	
1,3-Dichloropropane			142-28-9	
2,2-Dichloropropane			594-20-7	
1,1-Dichloropropene			563-58-6	
cis-1,3-Dichloropropene			10061-01-5	
trans-1,3-Dichloropropene			10061-02-6	
Ethylbenzene			100-41-4	
2-Hexanone			591-78-6	
Isopropylbenzene			98-82-8	
Methyl ethyl ketone (2-Butanone)			78-93-3	
Methyl tert-butyl ether (MTBE)			1634-04-4	
4-Methyl-2-pentanone (MIBK)			108-10-1	
Methylene chloride			75-09-2	
n-Propylbenzene			103-65-1	
Styrene			100-42-5	
1,1,1,2-Tetrachloroethane			630-20-6	
1,1,2,2-Tetrachloroethane			79-34-5	
Tetrachloroethene (PCE)			127-18-4	
Toluene			108-88-3	
1,2,3-Trichlorobenzene			87-61-6	
1,1,1-Trichloroethane (TCA)			71-55-6	
1,1,2-Trichloroethane			79-00-5	
Trichloroethene (TCE)			79-01-6	

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	GSP-10 1600780-GSP-10 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Trichlorofluoromethane (Freon 11)			75-69-4	
1,2,4-Trimethylbenzene			95-63-6	
1,3,5-Trimethylbenzene			108-67-8	
Vinyl acetate			108-05-4	
Vinyl chloride			75-01-4	
o-Xylene			95-47-6	
m/p-Xylene			179601-23-1	
Total Xylene			1330-20-7	
Semi-Volatile Organic Compounds (SVOCs)	SW 8270D	ug/L		
Acenaphthene			83-32-9	
Acenaphthylene			208-96-8	
Acetophenone			98-86-2	
Anthracene			120-12-7	
Atrazine			1912-24-9	
Benzaldehyde			100-52-7	
Benzo(a)anthracene			56-55-3	
Benzo(b)fluoranthene			205-99-2	
Benzo(k)fluoranthene			207-08-9	
Benzo(g,h,i)perylene			191-24-2	
Benzo(a)pyrene			50-32-8	
Biphenyl (1,1-Biphenyl)			92-52-4	
Bis(2-chloroethoxy)methane			111-91-1	
Bis(2-chloroethyl)ether			111-44-4	
2,2-oxybis(1-Chloropropane)			108-60-1	
Bis(2-ethylhexyl)phthalate			117-81-7	
4-Bromophenyl phenyl ether			101-55-3	

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	GSP-10 1600780-GSP-10 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Butyl benzyl phthalate			85-68-7	
Caprolactam			105-60-2	
Carbazole			86-74-8	
4-Chloro-3-methylphenol			59-50-7	
4-Chloroaniline			106-47-8	
2-Chloronaphthalene			91-58-7	
2-Chlorophenol			95-57-8	
4-Chlorophenyl phenyl ether			7005-72-3	
Chrysene			218-01-9	
Dibenz(a,h)anthracene			53-70-3	
Dibenzofuran			132-64-9	
3,3-Dichlorobenzidine			91-94-1	
2,4-Dichlorophenol			120-83-2	
Diethyl phthalate			84-66-2	
Dimethyl phthalate			131-11-3	
2,4-Dimethylphenol			105-67-9	
Di-n-butyl phthalate			84-74-2	
4,6-Dinitro-2-methylphenol			534-52-1	
2,4-Dinitrophenol			51-28-5	
2,4-Dinitrotoluene			121-14-2	
2,6-Dinitrotoluene			606-20-2	
Di-n-octyl phthalate			117-84-0	
Fluoranthene			206-44-0	
Fluorene			86-73-7	
Hexachlorobenzene			118-74-1	
1,3-Hexachlorobutadiene (C-46)			87-68-3	

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	GSP-10 1600780-GSP-10 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Hexachlorocyclopentadiene			77-47-4	
Hexachloroethane			67-72-1	
Indeno(1,2,3-cd)pyrene			193-39-5	
Isophorone			78-59-1	
2-Methylnaphthalene			91-57-6	
2-Methylphenol (o-Cresol)			95-48-7	
3,4-Methylphenol (m,p-Cresol)			108394/106445	
Naphthalene			91-20-3	
2-Nitroaniline			88-74-4	
3-Nitroaniline			99-09-2	
4-Nitroaniline			100-01-6	
Nitrobenzene			98-95-3	
2-Nitrophenol			88-75-5	
4-Nitrophenol			100-02-7	
N-Nitrosodiphenylamine (NDFA)			86-30-6	
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	
Pentachlorophenol			87-86-5	
Phenanthrene			85-01-8	
Phenol			108-95-2	
Pyrene			129-00-0	
2,4,5-Trichlorophenol			95-95-4	
2,4,6-Trichlorophenol			88-06-2	
Semi-Volatile Organic Compounds (SVOCs) - Dissolved	SW 8270D	ug/L		NT
Acenaphthene			83-32-9	
Acenaphthylene			208-96-8	
Acetophenone			98-86-2	

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	GSP-10 1600780-GSP-10 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Anthracene			120-12-7	
Atrazine			1912-24-9	
Benzaldehyde			100-52-7	
Benzo(a)anthracene			56-55-3	
Benzo(b)fluoranthene			205-99-2	
Benzo(k)fluoranthene			207-08-9	
Benzo(g,h,i)perylene			191-24-2	
Benzo(a)pyrene			50-32-8	
Biphenyl (1,1-Biphenyl)			92-52-4	
Bis(2-chloroethoxy)methane			111-91-1	
Bis(2-chloroethyl)ether			111-44-4	
2,2-oxybis(1-Chloropropane)			108-60-1	
Bis(2-ethylhexyl)phthalate			117-81-7	
4-Bromophenyl phenyl ether			101-55-3	
Butyl benzyl phthalate			85-68-7	
Caprolactam			105-60-2	
Carbazole			86-74-8	
4-Chloro-3-methylphenol			59-50-7	
4-Chloroaniline			106-47-8	
2-Chloronaphthalene			91-58-7	
2-Chlorophenol			95-57-8	
4-Chlorophenyl phenyl ether			7005-72-3	
Chrysene			218-01-9	
Dibenz(a,h)anthracene			53-70-3	
Dibenzofuran			132-64-9	
3,3-Dichlorobenzidine			91-94-1	

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	GSP-10 1600780-GSP-10 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
2,4-Dichlorophenol			120-83-2	
Diethyl phthalate			84-66-2	
Dimethyl phthalate			131-11-3	
2,4-Dimethylphenol			105-67-9	
Di-n-butyl phthalate			84-74-2	
4,6-Dinitro-2-methylphenol			534-52-1	
2,4-Dinitrophenol			51-28-5	
2,4-Dinitrotoluene			121-14-2	
2,6-Dinitrotoluene			606-20-2	
Di-n-octyl phthalate			117-84-0	
Fluoranthene			206-44-0	
Fluorene			86-73-7	
Hexachlorobenzene			118-74-1	
1,3-Hexachlorobutadiene (C-46)			87-68-3	
Hexachlorocyclopentadiene			77-47-4	
Hexachloroethane			67-72-1	
Indeno(1,2,3-cd)pyrene			193-39-5	
Isophorone			78-59-1	
2-Methylnaphthalene			91-57-6	
2-Methylphenol (o-Cresol)			95-48-7	
3,4-Methylphenol (m,p-Cresol)			108394/106445	
Naphthalene			91-20-3	
2-Nitroaniline			88-74-4	
3-Nitroaniline			99-09-2	
4-Nitroaniline			100-01-6	
Nitrobenzene			98-95-3	

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	GSP-10 1600780-GSP-10 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
2-Nitrophenol			88-75-5	
4-Nitrophenol			100-02-7	
N-Nitrosodiphenylamine (NDFA)			86-30-6	
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	
Pentachlorophenol			87-86-5	
Phenanthrene			85-01-8	
Phenol			108-95-2	
Pyrene			129-00-0	
2,4,5-Trichlorophenol			95-95-4	
2,4,6-Trichlorophenol			88-06-2	
Metals - Total	SW 6010C	ug/L		
Antimony			7440-36-0	
Arsenic			7440-38-2	
Beryllium			7440-41-7	
Cadmium			7440-43-9	
Calcium			7440-70-2	
Chromium			7440-47-3	
Copper			7440-50-8	
Iron			7439-89-6	
Lead			7439-92-1	
Magnesium			7439-95-4	
Manganese			7439-96-5	
Mercury			7439-97-6	
Nickel			7440-02-0	
Potassium			7440-09-7	
Selenium			7782-49-2	

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	GSP-10 1600780-GSP-10 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Silver			7440-22-4	
Sodium			7440-23-5	
Thallium			7440-28-0	
Zinc			7440-66-6	
Metals - Dissolved	SW 6010C	ug/L		NT
Antimony			7440-36-0	
Arsenic			7440-38-2	
Beryllium			7440-41-7	
Cadmium			7440-43-9	
Calcium			7440-70-2	
Chromium			7440-47-3	
Copper			7440-50-8	
Iron			7439-89-6	
Lead			7439-92-1	
Magnesium			7439-95-4	
Manganese			7439-96-5	
Mercury			7439-97-6	
Nickel			7440-02-0	
Potassium			7440-09-7	
Selenium			7782-49-2	
Silver			7440-22-4	
Sodium			7440-23-5	
Thallium			7440-28-0	
Zinc			7440-66-6	
Other				
Alkalinity	SM 2320B	mg/L	ALK	**530**

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	GSP-10 1600780-GSP-10 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Ammonia	EPA 350.1	mg/L	7664-41-7	**0.56**
Bicarbonate alkalinity as CaCO3	SM 2320B	mg/L	HCO3	**520**
Bromide	EPA 300.0	mg/L	24959-67-9	NT
Chloride	EPA 300.0	mg/L	16887-00-6	NT
Nitrate as Nitrogen	EPA 300.0	mg/L	14797-55-8	NT
Sulfate	EPA 300.0	mg/L	14808-79-8	NT
Sulfide	EPA 376.1	mg/L	18496-25-8	**1**
Total Dissolved Solids	SM 2540C	mg/L	TDS	**730**
Total Phosphorous	EPA 365.4	mg/L	7723-14-0	**0.043 J**

General Notes:
1. Analytes in blue are not detected in any sample.
2. Bolding indicates a detected result concentration.
3. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
4. mg/L = milligrams/liter.
5. ug/L = micrograms per liter or parts per billion (ppb).
6. CAS No. = Chemical Abstracts Service Number.
7. NT = The sample was not tested for this analyte.

Validation Qualifiers:
J The result is an estimated value.
R The result is rejected.
UJ The results was not detected at or above the reporting limit shown and the reporting limit is estimated.
+/- Result may be biased high/low, respectively.

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	GSP-10 1600780-GSP-10 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Volatile Organic Compounds (VOCs)	SW 8260B	ug/L		
Acetone			67-64-1	< 250
Benzene			71-43-2	**1100**
Bromobenzene			108-86-1	< 25
Bromochloromethane			74-97-5	< 25
Bromodichloromethane			75-27-4	< 25
Bromoform			75-25-2	< 25
Bromomethane			74-83-9	< 130
n-Butylbenzene			104-51-8	< 25
sec-Butylbenzene			135-98-8	< 25
tert-Butylbenzene			98-06-6	< 25
Carbon disulfide			75-15-0	< 50
Carbon tetrachloride			56-23-5	< 25
Chlorobenzene			108-90-7	< 25
Chloroethane			75-00-3	< 130
Chloroform (Trichloromethane)			67-66-3	< 25
Chloromethane			74-87-3	< 25
2-Chlorotoluene (o-Chlorotoluene)			95-49-8	< 25
4-Chlorotoluene (p-Chlorotoluene)			106-43-4	< 25
p-Cymene (4-Isopropyltoluene)			99-87-6	< 25
Dibromochloromethane			124-48-1	< 25
Dibromomethane			74-95-3	< 25
Dichlorodifluoromethane (Freon 12)			75-71-8	< 25
1,1-Dichloroethane			75-34-3	< 25
1,2-Dichloroethane			107-06-2	< 25
1,1-Dichloroethene			75-35-4	< 25

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	GSP-10 1600780-GSP-10 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Total 1,2-Dichloroethene			540-59-0	< 50
cis-1,2-Dichloroethene			156-59-2	< 25
trans-1,2-Dichloroethene			156-60-5	< 25
1,2-Dichloropropane			78-87-5	< 25
1,3-Dichloropropane			142-28-9	< 25
2,2-Dichloropropane			594-20-7	< 25
1,1-Dichloropropene			563-58-6	< 25
cis-1,3-Dichloropropene			10061-01-5	< 25
trans-1,3-Dichloropropene			10061-02-6	< 25
Ethylbenzene			100-41-4	**110**
2-Hexanone			591-78-6	< 250
Isopropylbenzene			98-82-8	< 25
Methyl ethyl ketone (2-Butanone)			78-93-3	< 250
Methyl tert-butyl ether (MTBE)			1634-04-4	< 250
4-Methyl-2-pentanone (MIBK)			108-10-1	< 250
Methylene chloride			75-09-2	< 130
n-Propylbenzene			103-65-1	< 25
Styrene			100-42-5	< 25
1,1,1,2-Tetrachloroethane			630-20-6	< 25
1,1,2,2-Tetrachloroethane			79-34-5	< 25
Tetrachloroethene (PCE)			127-18-4	< 25
Toluene			108-88-3	**31**
1,2,3-Trichlorobenzene			87-61-6	< 130
1,1,1-Trichloroethane (TCA)			71-55-6	< 25
1,1,2-Trichloroethane			79-00-5	< 25
Trichloroethene (TCE)			79-01-6	< 25

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	GSP-10 1600780-GSP-10 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Trichlorofluoromethane (Freon 11)			75-69-4	< 25
1,2,4-Trimethylbenzene			95-63-6	**160**
1,3,5-Trimethylbenzene			108-67-8	**86**
Vinyl acetate			108-05-4	< 50
Vinyl chloride			75-01-4	< 25
o-Xylene			95-47-6	**36**
m/p-Xylene			179601-23-1	**200**
Total Xylene			1330-20-7	**240**
Semi-Volatile Organic Compounds (SVOCs)	SW 8270D	ug/L		
Acenaphthene			83-32-9	0.2 UJ
Acenaphthylene			208-96-8	0.2 UJ
Acetophenone			98-86-2	1 UJ
Anthracene			120-12-7	0.2 UJ
Atrazine			1912-24-9	4 UJ
Benzaldehyde			100-52-7	1 UJ
Benzo(a)anthracene			56-55-3	0.2 UJ
Benzo(b)fluoranthene			205-99-2	0.2 UJ
Benzo(k)fluoranthene			207-08-9	0.2 UJ
Benzo(g,h,i)perylene			191-24-2	0.2 UJ
Benzo(a)pyrene			50-32-8	0.2 UJ
Biphenyl (1,1-Biphenyl)			92-52-4	1 UJ
Bis(2-chloroethoxy)methane			111-91-1	1 UJ
Bis(2-chloroethyl)ether			111-44-4	1 UJ
2,2-oxybis(1-Chloropropane)			108-60-1	1 UJ
Bis(2-ethylhexyl)phthalate			117-81-7	5 UJ
4-Bromophenyl phenyl ether			101-55-3	1 UJ

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	GSP-10 1600780-GSP-10 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Butyl benzyl phthalate			85-68-7	1 UJ
Caprolactam			105-60-2	1 R
Carbazole			86-74-8	2 UJ
4-Chloro-3-methylphenol			59-50-7	1 UJ
4-Chloroaniline			106-47-8	4 R
2-Chloronaphthalene			91-58-7	1 UJ
2-Chlorophenol			95-57-8	< 1
4-Chlorophenyl phenyl ether			7005-72-3	1 UJ
Chrysene			218-01-9	0.2 UJ
Dibenz(a,h)anthracene			53-70-3	0.2 UJ
Dibenzofuran			132-64-9	1 UJ
3,3-Dichlorobenzidine			91-94-1	20 R
2,4-Dichlorophenol			120-83-2	**0.7 J**
Diethyl phthalate			84-66-2	1 UJ
Dimethyl phthalate			131-11-3	1 UJ
2,4-Dimethylphenol			105-67-9	**8.4**
Di-n-butyl phthalate			84-74-2	1 UJ
4,6-Dinitro-2-methylphenol			534-52-1	< 5
2,4-Dinitrophenol			51-28-5	< 10
2,4-Dinitrotoluene			121-14-2	1 UJ
2,6-Dinitrotoluene			606-20-2	1 UJ
Di-n-octyl phthalate			117-84-0	1 UJ
Fluoranthene			206-44-0	0.2 UJ
Fluorene			86-73-7	0.2 UJ
Hexachlorobenzene			118-74-1	1 UJ
1,3-Hexachlorobutadiene (C-46)			87-68-3	1 UJ

Table 2. Laboratory Testing Results - Groundwater
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Zill, LLC
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			Location Name Sample Name Sample Date Parent Sample	GSP-10 1600780-GSP-10 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Hexachlorocyclopentadiene			77-47-4	2 UJ
Hexachloroethane			67-72-1	1 UJ
Indeno(1,2,3-cd)pyrene			193-39-5	0.2 UJ
Isophorone			78-59-1	1 UJ
2-Methylnaphthalene			91-57-6	**0.23 J-**
2-Methylphenol (o-Cresol)			95-48-7	**2.1**
3,4-Methylphenol (m,p-Cresol)			108394/106445	**1.9 J**
Naphthalene			91-20-3	**0.74 J-**
2-Nitroaniline			88-74-4	1 UJ
3-Nitroaniline			99-09-2	5 R
4-Nitroaniline			100-01-6	5 UJ
Nitrobenzene			98-95-3	1 UJ
2-Nitrophenol			88-75-5	1 UJ
4-Nitrophenol			100-02-7	8 R
N-Nitrosodiphenylamine (NDFA)			86-30-6	1 UJ
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	1 UJ
Pentachlorophenol			87-86-5	< 5
Phenanthrene			85-01-8	0.2 UJ
Phenol			108-95-2	**10 J-**
Pyrene			129-00-0	0.2 UJ
2,4,5-Trichlorophenol			95-95-4	1 UJ
2,4,6-Trichlorophenol			88-06-2	1 UJ
Semi-Volatile Organic Compounds (SVOCs) - Dissolved	SW 8270D	ug/L		NT
Acenaphthene			83-32-9	
Acenaphthylene			208-96-8	
Acetophenone			98-86-2	

Table 2. Laboratory Testing Results - Groundwater
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Zill, LLC
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			Location Name Sample Name Sample Date Parent Sample	GSP-10 1600780-GSP-10 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Anthracene			120-12-7	
Atrazine			1912-24-9	
Benzaldehyde			100-52-7	
Benzo(a)anthracene			56-55-3	
Benzo(b)fluoranthene			205-99-2	
Benzo(k)fluoranthene			207-08-9	
Benzo(g,h,i)perylene			191-24-2	
Benzo(a)pyrene			50-32-8	
Biphenyl (1,1-Biphenyl)			92-52-4	
Bis(2-chloroethoxy)methane			111-91-1	
Bis(2-chloroethyl)ether			111-44-4	
2,2-oxybis(1-Chloropropane)			108-60-1	
Bis(2-ethylhexyl)phthalate			117-81-7	
4-Bromophenyl phenyl ether			101-55-3	
Butyl benzyl phthalate			85-68-7	
Caprolactam			105-60-2	
Carbazole			86-74-8	
4-Chloro-3-methylphenol			59-50-7	
4-Chloroaniline			106-47-8	
2-Chloronaphthalene			91-58-7	
2-Chlorophenol			95-57-8	
4-Chlorophenyl phenyl ether			7005-72-3	
Chrysene			218-01-9	
Dibenz(a,h)anthracene			53-70-3	
Dibenzofuran			132-64-9	
3,3-Dichlorobenzidine			91-94-1	

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			Location Name	GSP-10
			Sample Name	1600780-GSP-10
			Sample Date	8/5/2016
			Parent Sample	
Analyte	**Method**	**Units**	**CAS No.**	
2,4-Dichlorophenol			120-83-2	
Diethyl phthalate			84-66-2	
Dimethyl phthalate			131-11-3	
2,4-Dimethylphenol			105-67-9	
Di-n-butyl phthalate			84-74-2	
4,6-Dinitro-2-methylphenol			534-52-1	
2,4-Dinitrophenol			51-28-5	
2,4-Dinitrotoluene			121-14-2	
2,6-Dinitrotoluene			606-20-2	
Di-n-octyl phthalate			117-84-0	
Fluoranthene			206-44-0	
Fluorene			86-73-7	
Hexachlorobenzene			118-74-1	
1,3-Hexachlorobutadiene (C-46)			87-68-3	
Hexachlorocyclopentadiene			77-47-4	
Hexachloroethane			67-72-1	
Indeno(1,2,3-cd)pyrene			193-39-5	
Isophorone			78-59-1	
2-Methylnaphthalene			91-57-6	
2-Methylphenol (o-Cresol)			95-48-7	
3,4-Methylphenol (m,p-Cresol)			108394/106445	
Naphthalene			91-20-3	
2-Nitroaniline			88-74-4	
3-Nitroaniline			99-09-2	
4-Nitroaniline			100-01-6	
Nitrobenzene			98-95-3	

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
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			Location Name Sample Name Sample Date Parent Sample	GSP-10 1600780-GSP-10 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
2-Nitrophenol			88-75-5	
4-Nitrophenol			100-02-7	
N-Nitrosodiphenylamine (NDFA)			86-30-6	
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	
Pentachlorophenol			87-86-5	
Phenanthrene			85-01-8	
Phenol			108-95-2	
Pyrene			129-00-0	
2,4,5-Trichlorophenol			95-95-4	
2,4,6-Trichlorophenol			88-06-2	
Metals - Total	SW 6010C	ug/L		
Antimony			7440-36-0	< 20
Arsenic			7440-38-2	**7 J**
Beryllium			7440-41-7	< 4
Cadmium			7440-43-9	< 5
Calcium			7440-70-2	**96000**
Chromium			7440-47-3	< 10
Copper			7440-50-8	**2.7 J**
Iron			7439-89-6	**1800**
Lead			7439-92-1	< 10
Magnesium			7439-95-4	**38000**
Manganese			7439-96-5	**71**
Mercury			7439-97-6	< 0.2
Nickel			7440-02-0	**3.7 J**
Potassium			7440-09-7	**7700**
Selenium			7782-49-2	< 20

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	GSP-10 1600780-GSP-10 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Silver			7440-22-4	< 10
Sodium			7440-23-5	**150000**
Thallium			7440-28-0	< 25
Zinc			7440-66-6	**19 J**
Metals - Dissolved	SW 6010C	ug/L		NT
Antimony			7440-36-0	
Arsenic			7440-38-2	
Beryllium			7440-41-7	
Cadmium			7440-43-9	
Calcium			7440-70-2	
Chromium			7440-47-3	
Copper			7440-50-8	
Iron			7439-89-6	
Lead			7439-92-1	
Magnesium			7439-95-4	
Manganese			7439-96-5	
Mercury			7439-97-6	
Nickel			7440-02-0	
Potassium			7440-09-7	
Selenium			7782-49-2	
Silver			7440-22-4	
Sodium			7440-23-5	
Thallium			7440-28-0	
Zinc			7440-66-6	
Other				
Alkalinity	SM 2320B	mg/L	ALK	NT

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			Location Name Sample Name Sample Date Parent Sample	GSP-10 1600780-GSP-10 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Ammonia	EPA 350.1	mg/L	7664-41-7	NT
Bicarbonate alkalinity as CaCO3	SM 2320B	mg/L	HCO3	NT
Bromide	EPA 300.0	mg/L	24959-67-9	**0.55**
Chloride	EPA 300.0	mg/L	16887-00-6	**120**
Nitrate as Nitrogen	EPA 300.0	mg/L	14797-55-8	**0.046 J**
Sulfate	EPA 300.0	mg/L	14808-79-8	< 1
Sulfide	EPA 376.1	mg/L	18496-25-8	NT
Total Dissolved Solids	SM 2540C	mg/L	TDS	NT
Total Phosphorous	EPA 365.4	mg/L	7723-14-0	NT

General Notes:
1. Analytes in blue are not detected in any sample.
2. Bolding indicates a detected result concentration.
3. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
4. mg/L = milligrams/liter.
5. ug/L = micrograms per liter or parts per billion (ppb).
6. CAS No. = Chemical Abstracts Service Number.
7. NT = The sample was not tested for this analyte.

Validation Qualifiers:
J The result is an estimated value.
R The result is rejected.
UJ The results was not detected at or above the reporting limit shown and the reporting limit is estimated.
+/- Result may be biased high/low, respectively.

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
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			Location Name Sample Name Sample Date Parent Sample	MW-01 1600780-MW-1 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Volatile Organic Compounds (VOCs)	SW 8260B	ug/L		
Acetone			67-64-1	< 100
Benzene			71-43-2	**1300**
Bromobenzene			108-86-1	< 10
Bromochloromethane			74-97-5	< 10
Bromodichloromethane			75-27-4	< 10
Bromoform			75-25-2	< 10
Bromomethane			74-83-9	< 50
n-Butylbenzene			104-51-8	< 10
sec-Butylbenzene			135-98-8	< 10
tert-Butylbenzene			98-06-6	< 10
Carbon disulfide			75-15-0	< 20
Carbon tetrachloride			56-23-5	< 10
Chlorobenzene			108-90-7	< 10
Chloroethane			75-00-3	< 50
Chloroform (Trichloromethane)			67-66-3	< 10
Chloromethane			74-87-3	< 10
2-Chlorotoluene (o-Chlorotoluene)			95-49-8	< 10
4-Chlorotoluene (p-Chlorotoluene)			106-43-4	< 10
p-Cymene (4-Isopropyltoluene)			99-87-6	< 10
Dibromochloromethane			124-48-1	< 10
Dibromomethane			74-95-3	< 10
Dichlorodifluoromethane (Freon 12)			75-71-8	< 10
1,1-Dichloroethane			75-34-3	< 10
1,2-Dichloroethane			107-06-2	< 10
1,1-Dichloroethene			75-35-4	< 10

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
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			Location Name Sample Name Sample Date Parent Sample	MW-01 1600780-MW-1 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Total 1,2-Dichloroethene			540-59-0	< 20
cis-1,2-Dichloroethene			156-59-2	< 10
trans-1,2-Dichloroethene			156-60-5	< 10
1,2-Dichloropropane			78-87-5	< 10
1,3-Dichloropropane			142-28-9	< 10
2,2-Dichloropropane			594-20-7	< 10
1,1-Dichloropropene			563-58-6	< 10
cis-1,3-Dichloropropene			10061-01-5	< 10
trans-1,3-Dichloropropene			10061-02-6	< 10
Ethylbenzene			100-41-4	**270**
2-Hexanone			591-78-6	< 100
Isopropylbenzene			98-82-8	**37**
Methyl ethyl ketone (2-Butanone)			78-93-3	< 100
Methyl tert-butyl ether (MTBE)			1634-04-4	< 100
4-Methyl-2-pentanone (MIBK)			108-10-1	< 100
Methylene chloride			75-09-2	< 50
n-Propylbenzene			103-65-1	**86**
Styrene			100-42-5	< 10
1,1,1,2-Tetrachloroethane			630-20-6	< 10
1,1,2,2-Tetrachloroethane			79-34-5	< 10
Tetrachloroethene (PCE)			127-18-4	< 10
Toluene			108-88-3	**110**
1,2,3-Trichlorobenzene			87-61-6	< 50
1,1,1-Trichloroethane (TCA)			71-55-6	< 10
1,1,2-Trichloroethane			79-00-5	< 10
Trichloroethene (TCE)			79-01-6	< 10

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-01 1600780-MW-1 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Trichlorofluoromethane (Freon 11)			75-69-4	< 10
1,2,4-Trimethylbenzene			95-63-6	**210**
1,3,5-Trimethylbenzene			108-67-8	**17**
Vinyl acetate			108-05-4	< 20
Vinyl chloride			75-01-4	< 10
o-Xylene			95-47-6	**120**
m/p-Xylene			179601-23-1	**320**
Total Xylene			1330-20-7	**440**
Semi-Volatile Organic Compounds (SVOCs)	SW 8270D	ug/L		
Acenaphthene			83-32-9	< 0.19
Acenaphthylene			208-96-8	< 0.19
Acetophenone			98-86-2	**6**
Anthracene			120-12-7	< 0.19
Atrazine			1912-24-9	< 3.9
Benzaldehyde			100-52-7	< 0.97
Benzo(a)anthracene			56-55-3	< 0.19
Benzo(b)fluoranthene			205-99-2	< 0.19
Benzo(k)fluoranthene			207-08-9	< 0.19
Benzo(g,h,i)perylene			191-24-2	< 0.19
Benzo(a)pyrene			50-32-8	< 0.19
Biphenyl (1,1-Biphenyl)			92-52-4	< 0.97
Bis(2-chloroethoxy)methane			111-91-1	< 0.97
Bis(2-chloroethyl)ether			111-44-4	< 0.97
2,2-oxybis(1-Chloropropane)			108-60-1	< 0.97
Bis(2-ethylhexyl)phthalate			117-81-7	< 4.8
4-Bromophenyl phenyl ether			101-55-3	< 0.97

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-01 1600780-MW-1 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Butyl benzyl phthalate			85-68-7	< 0.97
Caprolactam			105-60-2	< 0.97
Carbazole			86-74-8	< 1.9
4-Chloro-3-methylphenol			59-50-7	< 0.97
4-Chloroaniline			106-47-8	< 3.9
2-Chloronaphthalene			91-58-7	< 0.97
2-Chlorophenol			95-57-8	< 0.97
4-Chlorophenyl phenyl ether			7005-72-3	< 0.97
Chrysene			218-01-9	< 0.19
Dibenz(a,h)anthracene			53-70-3	< 0.19
Dibenzofuran			132-64-9	< 0.97
3,3-Dichlorobenzidine			91-94-1	< 19
2,4-Dichlorophenol			120-83-2	< 0.97
Diethyl phthalate			84-66-2	< 0.97
Dimethyl phthalate			131-11-3	< 0.97
2,4-Dimethylphenol			105-67-9	**1.5 J**
Di-n-butyl phthalate			84-74-2	< 0.97
4,6-Dinitro-2-methylphenol			534-52-1	< 4.8
2,4-Dinitrophenol			51-28-5	< 9.7
2,4-Dinitrotoluene			121-14-2	< 0.97
2,6-Dinitrotoluene			606-20-2	< 0.97
Di-n-octyl phthalate			117-84-0	< 0.97
Fluoranthene			206-44-0	< 0.19
Fluorene			86-73-7	< 0.19
Hexachlorobenzene			118-74-1	< 0.97
1,3-Hexachlorobutadiene (C-46)			87-68-3	< 0.97

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-01 1600780-MW-1 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Hexachlorocyclopentadiene			77-47-4	1.9 R
Hexachloroethane			67-72-1	< 0.97
Indeno(1,2,3-cd)pyrene			193-39-5	< 0.19
Isophorone			78-59-1	< 0.97
2-Methylnaphthalene			91-57-6	**3.3**
2-Methylphenol (o-Cresol)			95-48-7	< 1.9
3,4-Methylphenol (m,p-Cresol)			108394/106445	< 1.9
Naphthalene			91-20-3	**27**
2-Nitroaniline			88-74-4	< 0.97
3-Nitroaniline			99-09-2	< 4.8
4-Nitroaniline			100-01-6	< 4.8
Nitrobenzene			98-95-3	< 0.97
2-Nitrophenol			88-75-5	< 0.97
4-Nitrophenol			100-02-7	< 7.7
N-Nitrosodiphenylamine (NDFA)			86-30-6	< 0.97
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	< 0.97
Pentachlorophenol			87-86-5	< 4.8
Phenanthrene			85-01-8	< 0.19
Phenol			108-95-2	**10**
Pyrene			129-00-0	< 0.19
2,4,5-Trichlorophenol			95-95-4	< 0.97
2,4,6-Trichlorophenol			88-06-2	< 0.97
Semi-Volatile Organic Compounds (SVOCs) - Dissolved	SW 8270D	ug/L		NT
Acenaphthene			83-32-9	
Acenaphthylene			208-96-8	
Acetophenone			98-86-2	

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			Location Name Sample Name Sample Date Parent Sample	MW-01 1600780-MW-1 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Anthracene			120-12-7	
Atrazine			1912-24-9	
Benzaldehyde			100-52-7	
Benzo(a)anthracene			56-55-3	
Benzo(b)fluoranthene			205-99-2	
Benzo(k)fluoranthene			207-08-9	
Benzo(g,h,i)perylene			191-24-2	
Benzo(a)pyrene			50-32-8	
Biphenyl (1,1-Biphenyl)			92-52-4	
Bis(2-chloroethoxy)methane			111-91-1	
Bis(2-chloroethyl)ether			111-44-4	
2,2-oxybis(1-Chloropropane)			108-60-1	
Bis(2-ethylhexyl)phthalate			117-81-7	
4-Bromophenyl phenyl ether			101-55-3	
Butyl benzyl phthalate			85-68-7	
Caprolactam			105-60-2	
Carbazole			86-74-8	
4-Chloro-3-methylphenol			59-50-7	
4-Chloroaniline			106-47-8	
2-Chloronaphthalene			91-58-7	
2-Chlorophenol			95-57-8	
4-Chlorophenyl phenyl ether			7005-72-3	
Chrysene			218-01-9	
Dibenz(a,h)anthracene			53-70-3	
Dibenzofuran			132-64-9	
3,3-Dichlorobenzidine			91-94-1	

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			Location Name Sample Name Sample Date Parent Sample	MW-01 1600780-MW-1 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
2,4-Dichlorophenol			120-83-2	
Diethyl phthalate			84-66-2	
Dimethyl phthalate			131-11-3	
2,4-Dimethylphenol			105-67-9	
Di-n-butyl phthalate			84-74-2	
4,6-Dinitro-2-methylphenol			534-52-1	
2,4-Dinitrophenol			51-28-5	
2,4-Dinitrotoluene			121-14-2	
2,6-Dinitrotoluene			606-20-2	
Di-n-octyl phthalate			117-84-0	
Fluoranthene			206-44-0	
Fluorene			86-73-7	
Hexachlorobenzene			118-74-1	
1,3-Hexachlorobutadiene (C-46)			87-68-3	
Hexachlorocyclopentadiene			77-47-4	
Hexachloroethane			67-72-1	
Indeno(1,2,3-cd)pyrene			193-39-5	
Isophorone			78-59-1	
2-Methylnaphthalene			91-57-6	
2-Methylphenol (o-Cresol)			95-48-7	
3,4-Methylphenol (m,p-Cresol)			108394/106445	
Naphthalene			91-20-3	
2-Nitroaniline			88-74-4	
3-Nitroaniline			99-09-2	
4-Nitroaniline			100-01-6	
Nitrobenzene			98-95-3	

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-01 1600780-MW-1 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
2-Nitrophenol			88-75-5	
4-Nitrophenol			100-02-7	
N-Nitrosodiphenylamine (NDFA)			86-30-6	
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	
Pentachlorophenol			87-86-5	
Phenanthrene			85-01-8	
Phenol			108-95-2	
Pyrene			129-00-0	
2,4,5-Trichlorophenol			95-95-4	
2,4,6-Trichlorophenol			88-06-2	
Metals - Total	SW 6010C	ug/L		
Antimony			7440-36-0	< 20
Arsenic			7440-38-2	< 20
Beryllium			7440-41-7	< 4
Cadmium			7440-43-9	< 5
Calcium			7440-70-2	**260000**
Chromium			7440-47-3	< 10
Copper			7440-50-8	< 20
Iron			7439-89-6	**3500 J+**
Lead			7439-92-1	< 10
Magnesium			7439-95-4	**53000**
Manganese			7439-96-5	**9300**
Mercury			7439-97-6	< 0.2
Nickel			7440-02-0	3.6 J
Potassium			7440-09-7	**650 J**
Selenium			7782-49-2	< 20

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-01 1600780-MW-1 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Silver			7440-22-4	< 10
Sodium			7440-23-5	**130000**
Thallium			7440-28-0	< 25
Zinc			7440-66-6	< 20
Metals - Dissolved	SW 6010C	ug/L		NT
Antimony			7440-36-0	
Arsenic			7440-38-2	
Beryllium			7440-41-7	
Cadmium			7440-43-9	
Calcium			7440-70-2	
Chromium			7440-47-3	
Copper			7440-50-8	
Iron			7439-89-6	
Lead			7439-92-1	
Magnesium			7439-95-4	
Manganese			7439-96-5	
Mercury			7439-97-6	
Nickel			7440-02-0	
Potassium			7440-09-7	
Selenium			7782-49-2	
Silver			7440-22-4	
Sodium			7440-23-5	
Thallium			7440-28-0	
Zinc			7440-66-6	
Other				
Alkalinity	SM 2320B	mg/L	ALK	**450**

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name	MW-01
			Sample Name	1600780-MW-1
			Sample Date	8/4/2016
			Parent Sample	
Analyte	**Method**	**Units**	**CAS No.**	
Ammonia	EPA 350.1	mg/L	7664-41-7	< 0.25
Bicarbonate alkalinity as CaCO3	SM 2320B	mg/L	HCO3	**440**
Bromide	EPA 300.0	mg/L	24959-67-9	**1.4**
Chloride	EPA 300.0	mg/L	16887-00-6	**510**
Nitrate as Nitrogen	EPA 300.0	mg/L	14797-55-8	**0.053**
Sulfate	EPA 300.0	mg/L	14808-79-8	**33**
Sulfide	EPA 376.1	mg/L	18496-25-8	< 1
Total Dissolved Solids	SM 2540C	mg/L	TDS	**1700**
Total Phosphorous	EPA 365.4	mg/L	7723-14-0	**0.078 J**

General Notes:
1. Analytes in blue are not detected in any sample.
2. Bolding indicates a detected result concentration.
3. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
4. mg/L = milligrams/liter.
5. ug/L = micrograms per liter or parts per billion (ppb).
6. CAS No. = Chemical Abstracts Service Number.
7. NT = The sample was not tested for this analyte.

Validation Qualifiers:
J The result is an estimated value.
R The result is rejected.
UJ The results was not detected at or above the reporting limit shown and the reporting limit is estimated.
+/- Result may be biased high/low, respectively.

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-03 1600780-MW-3 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Volatile Organic Compounds (VOCs)	SW 8260B	ug/L		
Acetone			67-64-1	< 100
Benzene			71-43-2	**1600**
Bromobenzene			108-86-1	< 10
Bromochloromethane			74-97-5	< 10
Bromodichloromethane			75-27-4	< 10
Bromoform			75-25-2	< 10
Bromomethane			74-83-9	< 50
n-Butylbenzene			104-51-8	< 10
sec-Butylbenzene			135-98-8	< 10
tert-Butylbenzene			98-06-6	< 10
Carbon disulfide			75-15-0	< 20
Carbon tetrachloride			56-23-5	< 10
Chlorobenzene			108-90-7	< 10
Chloroethane			75-00-3	< 50
Chloroform (Trichloromethane)			67-66-3	< 10
Chloromethane			74-87-3	< 10
2-Chlorotoluene (o-Chlorotoluene)			95-49-8	< 10
4-Chlorotoluene (p-Chlorotoluene)			106-43-4	< 10
p-Cymene (4-Isopropyltoluene)			99-87-6	**6.6 J**
Dibromochloromethane			124-48-1	< 10
Dibromomethane			74-95-3	< 10
Dichlorodifluoromethane (Freon 12)			75-71-8	< 10
1,1-Dichloroethane			75-34-3	< 10
1,2-Dichloroethane			107-06-2	< 10
1,1-Dichloroethene			75-35-4	< 10

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-03 1600780-MW-3 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Total 1,2-Dichloroethene			540-59-0	< 20
cis-1,2-Dichloroethene			156-59-2	< 10
trans-1,2-Dichloroethene			156-60-5	< 10
1,2-Dichloropropane			78-87-5	< 10
1,3-Dichloropropane			142-28-9	< 10
2,2-Dichloropropane			594-20-7	< 10
1,1-Dichloropropene			563-58-6	< 10
cis-1,3-Dichloropropene			10061-01-5	< 10
trans-1,3-Dichloropropene			10061-02-6	< 10
Ethylbenzene			100-41-4	**350**
2-Hexanone			591-78-6	**160**
Isopropylbenzene			98-82-8	**150**
Methyl ethyl ketone (2-Butanone)			78-93-3	< 100
Methyl tert-butyl ether (MTBE)			1634-04-4	< 100
4-Methyl-2-pentanone (MIBK)			108-10-1	< 100
Methylene chloride			75-09-2	< 50
n-Propylbenzene			103-65-1	**410**
Styrene			100-42-5	< 10
1,1,1,2-Tetrachloroethane			630-20-6	< 10
1,1,2,2-Tetrachloroethane			79-34-5	< 10
Tetrachloroethene (PCE)			127-18-4	< 10
Toluene			108-88-3	**7.6 J**
1,2,3-Trichlorobenzene			87-61-6	< 50
1,1,1-Trichloroethane (TCA)			71-55-6	< 10
1,1,2-Trichloroethane			79-00-5	< 10
Trichloroethene (TCE)			79-01-6	< 10

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-03 1600780-MW-3 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Trichlorofluoromethane (Freon 11)			75-69-4	< 10
1,2,4-Trimethylbenzene			95-63-6	**42**
1,3,5-Trimethylbenzene			108-67-8	< 10
Vinyl acetate			108-05-4	< 20
Vinyl chloride			75-01-4	< 10
o-Xylene			95-47-6	< 10
m/p-Xylene			179601-23-1	**6.6 J**
Total Xylene			1330-20-7	**6.6 J**
Semi-Volatile Organic Compounds (SVOCs)	SW 8270D	ug/L		
Acenaphthene			83-32-9	< 1.9
Acenaphthylene			208-96-8	< 1.9
Acetophenone			98-86-2	< 9.6
Anthracene			120-12-7	< 1.9
Atrazine			1912-24-9	38 UJ
Benzaldehyde			100-52-7	< 9.6
Benzo(a)anthracene			56-55-3	< 1.9
Benzo(b)fluoranthene			205-99-2	< 1.9
Benzo(k)fluoranthene			207-08-9	< 1.9
Benzo(g,h,i)perylene			191-24-2	< 1.9
Benzo(a)pyrene			50-32-8	< 1.9
Biphenyl (1,1-Biphenyl)			92-52-4	< 9.6
Bis(2-chloroethoxy)methane			111-91-1	< 9.6
Bis(2-chloroethyl)ether			111-44-4	< 9.6
2,2-oxybis(1-Chloropropane)			108-60-1	< 9.6
Bis(2-ethylhexyl)phthalate			117-81-7	< 48
4-Bromophenyl phenyl ether			101-55-3	< 9.6

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-03 1600780-MW-3 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Butyl benzyl phthalate			85-68-7	< 9.6
Caprolactam			105-60-2	< 9.6
Carbazole			86-74-8	< 19
4-Chloro-3-methylphenol			59-50-7	< 9.6
4-Chloroaniline			106-47-8	< 38
2-Chloronaphthalene			91-58-7	< 9.6
2-Chlorophenol			95-57-8	< 9.6
4-Chlorophenyl phenyl ether			7005-72-3	< 9.6
Chrysene			218-01-9	< 1.9
Dibenz(a,h)anthracene			53-70-3	< 1.9
Dibenzofuran			132-64-9	< 9.6
3,3-Dichlorobenzidine			91-94-1	190 R
2,4-Dichlorophenol			120-83-2	< 9.6
Diethyl phthalate			84-66-2	< 9.6
Dimethyl phthalate			131-11-3	< 9.6
2,4-Dimethylphenol			105-67-9	< 19
Di-n-butyl phthalate			84-74-2	< 9.6
4,6-Dinitro-2-methylphenol			534-52-1	< 48
2,4-Dinitrophenol			51-28-5	< 96
2,4-Dinitrotoluene			121-14-2	< 9.6
2,6-Dinitrotoluene			606-20-2	< 9.6
Di-n-octyl phthalate			117-84-0	< 9.6
Fluoranthene			206-44-0	< 1.9
Fluorene			86-73-7	< 1.9
Hexachlorobenzene			118-74-1	< 9.6
1,3-Hexachlorobutadiene (C-46)			87-68-3	< 9.6

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-03 1600780-MW-3 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Hexachlorocyclopentadiene			77-47-4	< 19
Hexachloroethane			67-72-1	< 9.6
Indeno(1,2,3-cd)pyrene			193-39-5	< 1.9
Isophorone			78-59-1	< 9.6
2-Methylnaphthalene			91-57-6	**3.2**
2-Methylphenol (o-Cresol)			95-48-7	< 19
3,4-Methylphenol (m,p-Cresol)			108394/106445	< 19
Naphthalene			91-20-3	**12**
2-Nitroaniline			88-74-4	< 9.6
3-Nitroaniline			99-09-2	< 48
4-Nitroaniline			100-01-6	< 48
Nitrobenzene			98-95-3	< 9.6
2-Nitrophenol			88-75-5	< 9.6
4-Nitrophenol			100-02-7	< 76
N-Nitrosodiphenylamine (NDFA)			86-30-6	< 9.6
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	< 9.6
Pentachlorophenol			87-86-5	< 48
Phenanthrene			85-01-8	< 1.9
Phenol			108-95-2	**17**
Pyrene			129-00-0	< 1.9
2,4,5-Trichlorophenol			95-95-4	< 9.6
2,4,6-Trichlorophenol			88-06-2	< 9.6
Semi-Volatile Organic Compounds (SVOCs) - Dissolved	SW 8270D	ug/L		NT
Acenaphthene			83-32-9	
Acenaphthylene			208-96-8	
Acetophenone			98-86-2	

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-03 1600780-MW-3 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Anthracene			120-12-7	
Atrazine			1912-24-9	
Benzaldehyde			100-52-7	
Benzo(a)anthracene			56-55-3	
Benzo(b)fluoranthene			205-99-2	
Benzo(k)fluoranthene			207-08-9	
Benzo(g,h,i)perylene			191-24-2	
Benzo(a)pyrene			50-32-8	
Biphenyl (1,1-Biphenyl)			92-52-4	
Bis(2-chloroethoxy)methane			111-91-1	
Bis(2-chloroethyl)ether			111-44-4	
2,2-oxybis(1-Chloropropane)			108-60-1	
Bis(2-ethylhexyl)phthalate			117-81-7	
4-Bromophenyl phenyl ether			101-55-3	
Butyl benzyl phthalate			85-68-7	
Caprolactam			105-60-2	
Carbazole			86-74-8	
4-Chloro-3-methylphenol			59-50-7	
4-Chloroaniline			106-47-8	
2-Chloronaphthalene			91-58-7	
2-Chlorophenol			95-57-8	
4-Chlorophenyl phenyl ether			7005-72-3	
Chrysene			218-01-9	
Dibenz(a,h)anthracene			53-70-3	
Dibenzofuran			132-64-9	
3,3-Dichlorobenzidine			91-94-1	

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-03 1600780-MW-3 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
2,4-Dichlorophenol			120-83-2	
Diethyl phthalate			84-66-2	
Dimethyl phthalate			131-11-3	
2,4-Dimethylphenol			105-67-9	
Di-n-butyl phthalate			84-74-2	
4,6-Dinitro-2-methylphenol			534-52-1	
2,4-Dinitrophenol			51-28-5	
2,4-Dinitrotoluene			121-14-2	
2,6-Dinitrotoluene			606-20-2	
Di-n-octyl phthalate			117-84-0	
Fluoranthene			206-44-0	
Fluorene			86-73-7	
Hexachlorobenzene			118-74-1	
1,3-Hexachlorobutadiene (C-46)			87-68-3	
Hexachlorocyclopentadiene			77-47-4	
Hexachloroethane			67-72-1	
Indeno(1,2,3-cd)pyrene			193-39-5	
Isophorone			78-59-1	
2-Methylnaphthalene			91-57-6	
2-Methylphenol (o-Cresol)			95-48-7	
3,4-Methylphenol (m,p-Cresol)			108394/106445	
Naphthalene			91-20-3	
2-Nitroaniline			88-74-4	
3-Nitroaniline			99-09-2	
4-Nitroaniline			100-01-6	
Nitrobenzene			98-95-3	

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-03 1600780-MW-3 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
2-Nitrophenol			88-75-5	
4-Nitrophenol			100-02-7	
N-Nitrosodiphenylamine (NDFA)			86-30-6	
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	
Pentachlorophenol			87-86-5	
Phenanthrene			85-01-8	
Phenol			108-95-2	
Pyrene			129-00-0	
2,4,5-Trichlorophenol			95-95-4	
2,4,6-Trichlorophenol			88-06-2	
Metals - Total	SW 6010C	ug/L		
Antimony			7440-36-0	< 20
Arsenic			7440-38-2	< 20
Beryllium			7440-41-7	< 4
Cadmium			7440-43-9	< 5
Calcium			7440-70-2	**130000**
Chromium			7440-47-3	< 10
Copper			7440-50-8	**1.9 J**
Iron			7439-89-6	**9300**
Lead			7439-92-1	< 10
Magnesium			7439-95-4	**28000**
Manganese			7439-96-5	**4500**
Mercury			7439-97-6	< 0.2
Nickel			7440-02-0	**2.2 J**
Potassium			7440-09-7	**430 J**
Selenium			7782-49-2	< 20

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-03 1600780-MW-3 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Silver			7440-22-4	< 10
Sodium			7440-23-5	**91000**
Thallium			7440-28-0	< 25
Zinc			7440-66-6	< 20
Metals - Dissolved	SW 6010C	ug/L		NT
Antimony			7440-36-0	
Arsenic			7440-38-2	
Beryllium			7440-41-7	
Cadmium			7440-43-9	
Calcium			7440-70-2	
Chromium			7440-47-3	
Copper			7440-50-8	
Iron			7439-89-6	
Lead			7439-92-1	
Magnesium			7439-95-4	
Manganese			7439-96-5	
Mercury			7439-97-6	
Nickel			7440-02-0	
Potassium			7440-09-7	
Selenium			7782-49-2	
Silver			7440-22-4	
Sodium			7440-23-5	
Thallium			7440-28-0	
Zinc			7440-66-6	
Other				
Alkalinity	SM 2320B	mg/L	ALK	**450**

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name	MW-03
			Sample Name	1600780-MW-3
			Sample Date	8/5/2016
			Parent Sample	
Analyte	**Method**	**Units**	**CAS No.**	
Ammonia	EPA 350.1	mg/L	7664-41-7	< 0.25
Bicarbonate alkalinity as CaCO3	SM 2320B	mg/L	HCO3	**440**
Bromide	EPA 300.0	mg/L	24959-67-9	**0.37 J**
Chloride	EPA 300.0	mg/L	16887-00-6	**140**
Nitrate as Nitrogen	EPA 300.0	mg/L	14797-55-8	< 0.05
Sulfate	EPA 300.0	mg/L	14808-79-8	**4.3**
Sulfide	EPA 376.1	mg/L	18496-25-8	< 1
Total Dissolved Solids	SM 2540C	mg/L	TDS	**1100**
Total Phosphorous	EPA 365.4	mg/L	7723-14-0	**0.074 J**

General Notes:
1. Analytes in blue are not detected in any sample.
2. Bolding indicates a detected result concentration.
3. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
4. mg/L = milligrams/liter.
5. ug/L = micrograms per liter or parts per billion (ppb).
6. CAS No. = Chemical Abstracts Service Number.
7. NT = The sample was not tested for this analyte.

Validation Qualifiers:
J The result is an estimated value.
R The result is rejected.
UJ The results was not detected at or above the reporting limit shown and the reporting limit is estimated.
+/- Result may be biased high/low, respectively.

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-07 1600780-MW-7 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Volatile Organic Compounds (VOCs)	SW 8260B	ug/L		
Acetone			67-64-1	< 2000
Benzene			71-43-2	**8200**
Bromobenzene			108-86-1	< 200
Bromochloromethane			74-97-5	< 200
Bromodichloromethane			75-27-4	< 200
Bromoform			75-25-2	< 200
Bromomethane			74-83-9	< 1000
n-Butylbenzene			104-51-8	< 200
sec-Butylbenzene			135-98-8	< 200
tert-Butylbenzene			98-06-6	< 200
Carbon disulfide			75-15-0	< 400
Carbon tetrachloride			56-23-5	< 200
Chlorobenzene			108-90-7	< 200
Chloroethane			75-00-3	< 1000
Chloroform (Trichloromethane)			67-66-3	< 200
Chloromethane			74-87-3	< 200
2-Chlorotoluene (o-Chlorotoluene)			95-49-8	< 200
4-Chlorotoluene (p-Chlorotoluene)			106-43-4	< 200
p-Cymene (4-Isopropyltoluene)			99-87-6	< 200
Dibromochloromethane			124-48-1	< 200
Dibromomethane			74-95-3	< 200
Dichlorodifluoromethane (Freon 12)			75-71-8	< 200
1,1-Dichloroethane			75-34-3	< 200
1,2-Dichloroethane			107-06-2	< 200
1,1-Dichloroethene			75-35-4	< 200

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-07 1600780-MW-7 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Total 1,2-Dichloroethene			540-59-0	< 400
cis-1,2-Dichloroethene			156-59-2	< 200
trans-1,2-Dichloroethene			156-60-5	< 200
1,2-Dichloropropane			78-87-5	< 200
1,3-Dichloropropane			142-28-9	< 200
2,2-Dichloropropane			594-20-7	< 200
1,1-Dichloropropene			563-58-6	< 200
cis-1,3-Dichloropropene			10061-01-5	< 200
trans-1,3-Dichloropropene			10061-02-6	< 200
Ethylbenzene			100-41-4	**2500**
2-Hexanone			591-78-6	< 2000
Isopropylbenzene			98-82-8	**78 J**
Methyl ethyl ketone (2-Butanone)			78-93-3	< 2000
Methyl tert-butyl ether (MTBE)			1634-04-4	< 2000
4-Methyl-2-pentanone (MIBK)			108-10-1	< 2000
Methylene chloride			75-09-2	< 1000
n-Propylbenzene			103-65-1	**220**
Styrene			100-42-5	< 200
1,1,1,2-Tetrachloroethane			630-20-6	< 200
1,1,2,2-Tetrachloroethane			79-34-5	< 200
Tetrachloroethene (PCE)			127-18-4	< 200
Toluene			108-88-3	**23000**
1,2,3-Trichlorobenzene			87-61-6	< 1000
1,1,1-Trichloroethane (TCA)			71-55-6	< 200
1,1,2-Trichloroethane			79-00-5	< 200
Trichloroethene (TCE)			79-01-6	< 200

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-07 1600780-MW-7 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Trichlorofluoromethane (Freon 11)			75-69-4	< 200
1,2,4-Trimethylbenzene			95-63-6	**1700**
1,3,5-Trimethylbenzene			108-67-8	**460**
Vinyl acetate			108-05-4	< 400
Vinyl chloride			75-01-4	< 200
o-Xylene			95-47-6	**3300**
m/p-Xylene			179601-23-1	**8000**
Total Xylene			1330-20-7	**11000**
Semi-Volatile Organic Compounds (SVOCs)	SW 8270D	ug/L		
Acenaphthene			83-32-9	< 2
Acenaphthylene			208-96-8	< 2
Acetophenone			98-86-2	< 9.8
Anthracene			120-12-7	< 2
Atrazine			1912-24-9	39 UJ
Benzaldehyde			100-52-7	< 9.8
Benzo(a)anthracene			56-55-3	< 2
Benzo(b)fluoranthene			205-99-2	< 2
Benzo(k)fluoranthene			207-08-9	< 2
Benzo(g,h,i)perylene			191-24-2	< 2
Benzo(a)pyrene			50-32-8	< 2
Biphenyl (1,1-Biphenyl)			92-52-4	< 9.8
Bis(2-chloroethoxy)methane			111-91-1	< 9.8
Bis(2-chloroethyl)ether			111-44-4	< 9.8
2,2-oxybis(1-Chloropropane)			108-60-1	< 9.8
Bis(2-ethylhexyl)phthalate			117-81-7	< 49
4-Bromophenyl phenyl ether			101-55-3	< 9.8

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-07 1600780-MW-7 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Butyl benzyl phthalate			85-68-7	< 9.8
Caprolactam			105-60-2	< 9.8
Carbazole			86-74-8	**5 J**
4-Chloro-3-methylphenol			59-50-7	< 9.8
4-Chloroaniline			106-47-8	< 39
2-Chloronaphthalene			91-58-7	< 9.8
2-Chlorophenol			95-57-8	< 9.8
4-Chlorophenyl phenyl ether			7005-72-3	< 9.8
Chrysene			218-01-9	< 2
Dibenz(a,h)anthracene			53-70-3	< 2
Dibenzofuran			132-64-9	< 9.8
3,3-Dichlorobenzidine			91-94-1	200 R
2,4-Dichlorophenol			120-83-2	< 9.8
Diethyl phthalate			84-66-2	< 9.8
Dimethyl phthalate			131-11-3	< 9.8
2,4-Dimethylphenol			105-67-9	**150**
Di-n-butyl phthalate			84-74-2	< 9.8
4,6-Dinitro-2-methylphenol			534-52-1	< 49
2,4-Dinitrophenol			51-28-5	< 98
2,4-Dinitrotoluene			121-14-2	< 9.8
2,6-Dinitrotoluene			606-20-2	< 9.8
Di-n-octyl phthalate			117-84-0	< 9.8
Fluoranthene			206-44-0	< 2
Fluorene			86-73-7	< 2
Hexachlorobenzene			118-74-1	< 9.8
1,3-Hexachlorobutadiene (C-46)			87-68-3	< 9.8

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-07 1600780-MW-7 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Hexachlorocyclopentadiene			77-47-4	< 20
Hexachloroethane			67-72-1	< 9.8
Indeno(1,2,3-cd)pyrene			193-39-5	< 2
Isophorone			78-59-1	< 9.8
2-Methylnaphthalene			91-57-6	**91**
2-Methylphenol (o-Cresol)			95-48-7	**180**
3,4-Methylphenol (m,p-Cresol)			108394/106445	**500**
Naphthalene			91-20-3	**230**
2-Nitroaniline			88-74-4	< 9.8
3-Nitroaniline			99-09-2	< 49
4-Nitroaniline			100-01-6	< 49
Nitrobenzene			98-95-3	< 9.8
2-Nitrophenol			88-75-5	< 9.8
4-Nitrophenol			100-02-7	< 79
N-Nitrosodiphenylamine (NDFA)			86-30-6	< 9.8
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	< 9.8
Pentachlorophenol			87-86-5	< 49
Phenanthrene			85-01-8	< 2
Phenol			108-95-2	**130**
Pyrene			129-00-0	< 2
2,4,5-Trichlorophenol			95-95-4	< 9.8
2,4,6-Trichlorophenol			88-06-2	< 9.8
Semi-Volatile Organic Compounds (SVOCs) - Dissolved	SW 8270D	ug/L		NT
Acenaphthene			83-32-9	
Acenaphthylene			208-96-8	
Acetophenone			98-86-2	

Table 2. Laboratory Testing Results - Groundwater
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Zill, LLC
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			Location Name	MW-07
			Sample Name	1600780-MW-7
			Sample Date	8/5/2016
			Parent Sample	
Analyte	**Method**	**Units**	**CAS No.**	
Anthracene			120-12-7	
Atrazine			1912-24-9	
Benzaldehyde			100-52-7	
Benzo(a)anthracene			56-55-3	
Benzo(b)fluoranthene			205-99-2	
Benzo(k)fluoranthene			207-08-9	
Benzo(g,h,i)perylene			191-24-2	
Benzo(a)pyrene			50-32-8	
Biphenyl (1,1-Biphenyl)			92-52-4	
Bis(2-chloroethoxy)methane			111-91-1	
Bis(2-chloroethyl)ether			111-44-4	
2,2-oxybis(1-Chloropropane)			108-60-1	
Bis(2-ethylhexyl)phthalate			117-81-7	
4-Bromophenyl phenyl ether			101-55-3	
Butyl benzyl phthalate			85-68-7	
Caprolactam			105-60-2	
Carbazole			86-74-8	
4-Chloro-3-methylphenol			59-50-7	
4-Chloroaniline			106-47-8	
2-Chloronaphthalene			91-58-7	
2-Chlorophenol			95-57-8	
4-Chlorophenyl phenyl ether			7005-72-3	
Chrysene			218-01-9	
Dibenz(a,h)anthracene			53-70-3	
Dibenzofuran			132-64-9	
3,3-Dichlorobenzidine			91-94-1	

Table 2. Laboratory Testing Results - Groundwater
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Zill, LLC
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			Location Name Sample Name Sample Date Parent Sample	MW-07 1600780-MW-7 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
2,4-Dichlorophenol			120-83-2	
Diethyl phthalate			84-66-2	
Dimethyl phthalate			131-11-3	
2,4-Dimethylphenol			105-67-9	
Di-n-butyl phthalate			84-74-2	
4,6-Dinitro-2-methylphenol			534-52-1	
2,4-Dinitrophenol			51-28-5	
2,4-Dinitrotoluene			121-14-2	
2,6-Dinitrotoluene			606-20-2	
Di-n-octyl phthalate			117-84-0	
Fluoranthene			206-44-0	
Fluorene			86-73-7	
Hexachlorobenzene			118-74-1	
1,3-Hexachlorobutadiene (C-46)			87-68-3	
Hexachlorocyclopentadiene			77-47-4	
Hexachloroethane			67-72-1	
Indeno(1,2,3-cd)pyrene			193-39-5	
Isophorone			78-59-1	
2-Methylnaphthalene			91-57-6	
2-Methylphenol (o-Cresol)			95-48-7	
3,4-Methylphenol (m,p-Cresol)			108394/106445	
Naphthalene			91-20-3	
2-Nitroaniline			88-74-4	
3-Nitroaniline			99-09-2	
4-Nitroaniline			100-01-6	
Nitrobenzene			98-95-3	

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
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			Location Name Sample Name Sample Date Parent Sample	MW-07 1600780-MW-7 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
2-Nitrophenol			88-75-5	
4-Nitrophenol			100-02-7	
N-Nitrosodiphenylamine (NDFA)			86-30-6	
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	
Pentachlorophenol			87-86-5	
Phenanthrene			85-01-8	
Phenol			108-95-2	
Pyrene			129-00-0	
2,4,5-Trichlorophenol			95-95-4	
2,4,6-Trichlorophenol			88-06-2	
Metals - Total	SW 6010C	ug/L		
Antimony			7440-36-0	< 20
Arsenic			7440-38-2	**24**
Beryllium			7440-41-7	< 4
Cadmium			7440-43-9	< 5
Calcium			7440-70-2	**270000**
Chromium			7440-47-3	< 10
Copper			7440-50-8	< 20
Iron			7439-89-6	**48000**
Lead			7439-92-1	< 10
Magnesium			7439-95-4	**52000**
Manganese			7439-96-5	**2200**
Mercury			7439-97-6	< 0.2
Nickel			7440-02-0	**3.9 J**
Potassium			7440-09-7	**2500**
Selenium			7782-49-2	< 20

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
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			Location Name Sample Name Sample Date Parent Sample	MW-07 1600780-MW-7 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Silver			7440-22-4	< 10
Sodium			7440-23-5	**150000**
Thallium			7440-28-0	< 25
Zinc			7440-66-6	< 20
Metals - Dissolved	SW 6010C	ug/L		NT
Antimony			7440-36-0	
Arsenic			7440-38-2	
Beryllium			7440-41-7	
Cadmium			7440-43-9	
Calcium			7440-70-2	
Chromium			7440-47-3	
Copper			7440-50-8	
Iron			7439-89-6	
Lead			7439-92-1	
Magnesium			7439-95-4	
Manganese			7439-96-5	
Mercury			7439-97-6	
Nickel			7440-02-0	
Potassium			7440-09-7	
Selenium			7782-49-2	
Silver			7440-22-4	
Sodium			7440-23-5	
Thallium			7440-28-0	
Zinc			7440-66-6	
Other				
Alkalinity	SM 2320B	mg/L	ALK	**470**

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
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			Location Name Sample Name Sample Date Parent Sample	MW-07 1600780-MW-7 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Ammonia	EPA 350.1	mg/L	7664-41-7	**0.31 J+**
Bicarbonate alkalinity as CaCO3	SM 2320B	mg/L	HCO3	**470**
Bromide	EPA 300.0	mg/L	24959-67-9	**0.81**
Chloride	EPA 300.0	mg/L	16887-00-6	**460**
Nitrate as Nitrogen	EPA 300.0	mg/L	14797-55-8	< 0.1
Sulfate	EPA 300.0	mg/L	14808-79-8	< 1
Sulfide	EPA 376.1	mg/L	18496-25-8	< 1
Total Dissolved Solids	SM 2540C	mg/L	TDS	**1600**
Total Phosphorous	EPA 365.4	mg/L	7723-14-0	**0.2**

General Notes:
1. Analytes in blue are not detected in any sample.
2. Bolding indicates a detected result concentration.
3. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
4. mg/L = milligrams/liter.
5. ug/L = micrograms per liter or parts per billion (ppb).
6. CAS No. = Chemical Abstracts Service Number.
7. NT = The sample was not tested for this analyte.

Validation Qualifiers:
J The result is an estimated value.
R The result is rejected.
UJ The results was not detected at or above the reporting limit shown and the reporting limit is estimated.
+/- Result may be biased high/low, respectively.

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-12 1600780-MW-12 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Volatile Organic Compounds (VOCs)	SW 8260B	ug/L		
Acetone			67-64-1	< 100
Benzene			71-43-2	**11000**
Bromobenzene			108-86-1	< 10
Bromochloromethane			74-97-5	< 10
Bromodichloromethane			75-27-4	< 10
Bromoform			75-25-2	< 10
Bromomethane			74-83-9	< 50
n-Butylbenzene			104-51-8	< 10
sec-Butylbenzene			135-98-8	< 10
tert-Butylbenzene			98-06-6	< 10
Carbon disulfide			75-15-0	< 20
Carbon tetrachloride			56-23-5	< 10
Chlorobenzene			108-90-7	< 10
Chloroethane			75-00-3	< 50
Chloroform (Trichloromethane)			67-66-3	< 10
Chloromethane			74-87-3	< 10
2-Chlorotoluene (o-Chlorotoluene)			95-49-8	< 10
4-Chlorotoluene (p-Chlorotoluene)			106-43-4	< 10
p-Cymene (4-Isopropyltoluene)			99-87-6	< 10
Dibromochloromethane			124-48-1	< 10
Dibromomethane			74-95-3	< 10
Dichlorodifluoromethane (Freon 12)			75-71-8	< 10
1,1-Dichloroethane			75-34-3	< 10
1,2-Dichloroethane			107-06-2	< 10
1,1-Dichloroethene			75-35-4	< 10

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
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			Location Name Sample Name Sample Date Parent Sample	MW-12 1600780-MW-12 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Total 1,2-Dichloroethene			540-59-0	< 20
cis-1,2-Dichloroethene			156-59-2	< 10
trans-1,2-Dichloroethene			156-60-5	< 10
1,2-Dichloropropane			78-87-5	< 10
1,3-Dichloropropane			142-28-9	< 10
2,2-Dichloropropane			594-20-7	< 10
1,1-Dichloropropene			563-58-6	< 10
cis-1,3-Dichloropropene			10061-01-5	< 10
trans-1,3-Dichloropropene			10061-02-6	< 10
Ethylbenzene			100-41-4	**2300**
2-Hexanone			591-78-6	< 100
Isopropylbenzene			98-82-8	**88**
Methyl ethyl ketone (2-Butanone)			78-93-3	**92 J**
Methyl tert-butyl ether (MTBE)			1634-04-4	**27 J**
4-Methyl-2-pentanone (MIBK)			108-10-1	< 100
Methylene chloride			75-09-2	< 50
n-Propylbenzene			103-65-1	**230**
Styrene			100-42-5	< 10
1,1,1,2-Tetrachloroethane			630-20-6	< 10
1,1,2,2-Tetrachloroethane			79-34-5	< 10
Tetrachloroethene (PCE)			127-18-4	< 10
Toluene			108-88-3	**15000**
1,2,3-Trichlorobenzene			87-61-6	< 50
1,1,1-Trichloroethane (TCA)			71-55-6	< 10
1,1,2-Trichloroethane			79-00-5	< 10
Trichloroethene (TCE)			79-01-6	< 10

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-12 1600780-MW-12 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Trichlorofluoromethane (Freon 11)			75-69-4	< 10
1,2,4-Trimethylbenzene			95-63-6	**920**
1,3,5-Trimethylbenzene			108-67-8	**170**
Vinyl acetate			108-05-4	< 20
Vinyl chloride			75-01-4	< 10
o-Xylene			95-47-6	**1900**
m/p-Xylene			179601-23-1	**4100**
Total Xylene			1330-20-7	**6100**
Semi-Volatile Organic Compounds (SVOCs)	SW 8270D	ug/L		
Acenaphthene			83-32-9	< 1.9
Acenaphthylene			208-96-8	< 1.9
Acetophenone			98-86-2	< 9.5
Anthracene			120-12-7	< 1.9
Atrazine			1912-24-9	< 38
Benzaldehyde			100-52-7	< 9.5
Benzo(a)anthracene			56-55-3	< 1.9
Benzo(b)fluoranthene			205-99-2	< 1.9
Benzo(k)fluoranthene			207-08-9	< 1.9
Benzo(g,h,i)perylene			191-24-2	< 1.9
Benzo(a)pyrene			50-32-8	< 1.9
Biphenyl (1,1-Biphenyl)			92-52-4	< 9.5
Bis(2-chloroethoxy)methane			111-91-1	< 9.5
Bis(2-chloroethyl)ether			111-44-4	**29**
2,2-oxybis(1-Chloropropane)			108-60-1	< 9.5
Bis(2-ethylhexyl)phthalate			117-81-7	< 48
4-Bromophenyl phenyl ether			101-55-3	< 9.5

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-12 1600780-MW-12 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Butyl benzyl phthalate			85-68-7	< 9.5
Caprolactam			105-60-2	< 9.5
Carbazole			86-74-8	< 19
4-Chloro-3-methylphenol			59-50-7	< 9.5
4-Chloroaniline			106-47-8	< 38
2-Chloronaphthalene			91-58-7	< 9.5
2-Chlorophenol			95-57-8	< 9.5
4-Chlorophenyl phenyl ether			7005-72-3	< 9.5
Chrysene			218-01-9	< 1.9
Dibenz(a,h)anthracene			53-70-3	< 1.9
Dibenzofuran			132-64-9	< 9.5
3,3-Dichlorobenzidine			91-94-1	< 190
2,4-Dichlorophenol			120-83-2	< 9.5
Diethyl phthalate			84-66-2	< 9.5
Dimethyl phthalate			131-11-3	< 9.5
2,4-Dimethylphenol			105-67-9	**210**
Di-n-butyl phthalate			84-74-2	< 9.5
4,6-Dinitro-2-methylphenol			534-52-1	< 48
2,4-Dinitrophenol			51-28-5	< 95
2,4-Dinitrotoluene			121-14-2	< 9.5
2,6-Dinitrotoluene			606-20-2	< 9.5
Di-n-octyl phthalate			117-84-0	< 9.5
Fluoranthene			206-44-0	< 1.9
Fluorene			86-73-7	< 1.9
Hexachlorobenzene			118-74-1	< 9.5
1,3-Hexachlorobutadiene (C-46)			87-68-3	< 9.5

Table 2. Laboratory Testing Results - Groundwater
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Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-12 1600780-MW-12 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Hexachlorocyclopentadiene			77-47-4	19 R
Hexachloroethane			67-72-1	< 9.5
Indeno(1,2,3-cd)pyrene			193-39-5	< 1.9
Isophorone			78-59-1	< 9.5
2-Methylnaphthalene			91-57-6	**54**
2-Methylphenol (o-Cresol)			95-48-7	**300**
3,4-Methylphenol (m,p-Cresol)			108394/106445	**800**
Naphthalene			91-20-3	**160**
2-Nitroaniline			88-74-4	< 9.5
3-Nitroaniline			99-09-2	< 48
4-Nitroaniline			100-01-6	< 48
Nitrobenzene			98-95-3	< 9.5
2-Nitrophenol			88-75-5	< 9.5
4-Nitrophenol			100-02-7	< 76
N-Nitrosodiphenylamine (NDFA)			86-30-6	< 9.5
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	< 9.5
Pentachlorophenol			87-86-5	< 48
Phenanthrene			85-01-8	< 1.9
Phenol			108-95-2	**230**
Pyrene			129-00-0	< 1.9
2,4,5-Trichlorophenol			95-95-4	< 9.5
2,4,6-Trichlorophenol			88-06-2	< 9.5
Semi-Volatile Organic Compounds (SVOCs) - Dissolved	SW 8270D	ug/L		
Acenaphthene			83-32-9	< 1.9
Acenaphthylene			208-96-8	< 1.9
Acetophenone			98-86-2	< 9.5

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-12 1600780-MW-12 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Anthracene			120-12-7	< 1.9
Atrazine			1912-24-9	< 38
Benzaldehyde			100-52-7	< 9.5
Benzo(a)anthracene			56-55-3	< 1.9
Benzo(b)fluoranthene			205-99-2	< 1.9
Benzo(k)fluoranthene			207-08-9	< 1.9
Benzo(g,h,i)perylene			191-24-2	< 1.9
Benzo(a)pyrene			50-32-8	< 1.9
Biphenyl (1,1-Biphenyl)			92-52-4	< 9.5
Bis(2-chloroethoxy)methane			111-91-1	< 9.5
Bis(2-chloroethyl)ether			111-44-4	**29**
2,2-oxybis(1-Chloropropane)			108-60-1	< 9.5
Bis(2-ethylhexyl)phthalate			117-81-7	< 48
4-Bromophenyl phenyl ether			101-55-3	< 9.5
Butyl benzyl phthalate			85-68-7	< 9.5
Caprolactam			105-60-2	< 9.5
Carbazole			86-74-8	< 19
4-Chloro-3-methylphenol			59-50-7	< 9.5
4-Chloroaniline			106-47-8	< 38
2-Chloronaphthalene			91-58-7	< 9.5
2-Chlorophenol			95-57-8	< 9.5
4-Chlorophenyl phenyl ether			7005-72-3	< 9.5
Chrysene			218-01-9	< 1.9
Dibenz(a,h)anthracene			53-70-3	< 1.9
Dibenzofuran			132-64-9	< 9.5
3,3-Dichlorobenzidine			91-94-1	< 190

Table 2. Laboratory Testing Results - Groundwater
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Zill, LLC
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			Location Name Sample Name Sample Date Parent Sample	MW-12 1600780-MW-12 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
2,4-Dichlorophenol			120-83-2	< 9.5
Diethyl phthalate			84-66-2	< 9.5
Dimethyl phthalate			131-11-3	< 9.5
2,4-Dimethylphenol			105-67-9	**190**
Di-n-butyl phthalate			84-74-2	< 9.5
4,6-Dinitro-2-methylphenol			534-52-1	< 48
2,4-Dinitrophenol			51-28-5	< 95
2,4-Dinitrotoluene			121-14-2	< 9.5
2,6-Dinitrotoluene			606-20-2	< 9.5
Di-n-octyl phthalate			117-84-0	< 9.5
Fluoranthene			206-44-0	< 1.9
Fluorene			86-73-7	< 1.9
Hexachlorobenzene			118-74-1	< 9.5
1,3-Hexachlorobutadiene (C-46)			87-68-3	< 9.5
Hexachlorocyclopentadiene			77-47-4	19 R
Hexachloroethane			67-72-1	< 9.5
Indeno(1,2,3-cd)pyrene			193-39-5	< 1.9
Isophorone			78-59-1	< 9.5
2-Methylnaphthalene			91-57-6	**24**
2-Methylphenol (o-Cresol)			95-48-7	**290**
3,4-Methylphenol (m,p-Cresol)			108394/106445	**750**
Naphthalene			91-20-3	**110**
2-Nitroaniline			88-74-4	< 9.5
3-Nitroaniline			99-09-2	< 48
4-Nitroaniline			100-01-6	< 48
Nitrobenzene			98-95-3	< 9.5

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-12 1600780-MW-12 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
2-Nitrophenol			88-75-5	< 9.5
4-Nitrophenol			100-02-7	< 76
N-Nitrosodiphenylamine (NDFA)			86-30-6	< 9.5
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	< 9.5
Pentachlorophenol			87-86-5	< 48
Phenanthrene			85-01-8	< 1.9
Phenol			108-95-2	**220**
Pyrene			129-00-0	< 1.9
2,4,5-Trichlorophenol			95-95-4	< 9.5
2,4,6-Trichlorophenol			88-06-2	< 9.5
Metals - Total	SW 6010C	ug/L		
Antimony			7440-36-0	< 20
Arsenic			7440-38-2	**43**
Beryllium			7440-41-7	< 4
Cadmium			7440-43-9	< 5
Calcium			7440-70-2	**310000**
Chromium			7440-47-3	**2.8 J**
Copper			7440-50-8	**3 J**
Iron			7439-89-6	**46000 J+**
Lead			7439-92-1	< 10
Magnesium			7439-95-4	**42000**
Manganese			7439-96-5	**2300**
Mercury			7439-97-6	< 0.2
Nickel			7440-02-0	**6.8 J**
Potassium			7440-09-7	**2700**
Selenium			7782-49-2	< 20

Table 2. Laboratory Testing Results - Groundwater
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Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-12 1600780-MW-12 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Silver			7440-22-4	< 10
Sodium			7440-23-5	**100000**
Thallium			7440-28-0	< 25
Zinc			7440-66-6	**9.5 J**
Metals - Dissolved	SW 6010C	ug/L		
Antimony			7440-36-0	< 20
Arsenic			7440-38-2	**46**
Beryllium			7440-41-7	< 4
Cadmium			7440-43-9	< 5
Calcium			7440-70-2	**330000**
Chromium			7440-47-3	**4 J**
Copper			7440-50-8	**2.1 J**
Iron			7439-89-6	**48000 J+**
Lead			7439-92-1	< 10
Magnesium			7439-95-4	**43000**
Manganese			7439-96-5	**2400**
Mercury			7439-97-6	< 0.2
Nickel			7440-02-0	**6.6 J**
Potassium			7440-09-7	**2700**
Selenium			7782-49-2	< 20
Silver			7440-22-4	< 10
Sodium			7440-23-5	**120000**
Thallium			7440-28-0	< 25
Zinc			7440-66-6	**24**
Other				
Alkalinity	SM 2320B	mg/L	ALK	**800**

Table 2. Laboratory Testing Results - Groundwater
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Zill, LLC
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			Location Name Sample Name Sample Date Parent Sample	MW-12 1600780-MW-12 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Ammonia	EPA 350.1	mg/L	7664-41-7	< 0.25
Bicarbonate alkalinity as CaCO3	SM 2320B	mg/L	HCO3	**790**
Bromide	EPA 300.0	mg/L	24959-67-9	**0.42 J**
Chloride	EPA 300.0	mg/L	16887-00-6	**200**
Nitrate as Nitrogen	EPA 300.0	mg/L	14797-55-8	< 0.05
Sulfate	EPA 300.0	mg/L	14808-79-8	**4.5**
Sulfide	EPA 376.1	mg/L	18496-25-8	< 1
Total Dissolved Solids	SM 2540C	mg/L	TDS	**1200**
Total Phosphorous	EPA 365.4	mg/L	7723-14-0	**0.22**

General Notes:
1. Analytes in blue are not detected in any sample.
2. Bolding indicates a detected result concentration.
3. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
4. mg/L = milligrams/liter.
5. ug/L = micrograms per liter or parts per billion (ppb).
6. CAS No. = Chemical Abstracts Service Number.
7. NT = The sample was not tested for this analyte.

Validation Qualifiers:
J The result is an estimated value.
R The result is rejected.
UJ The results was not detected at or above the reporting limit shown and the reporting limit is estimated.
+/- Result may be biased high/low, respectively.

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
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			Location Name Sample Name Sample Date Parent Sample	MW-13 1600780-MW-13 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Volatile Organic Compounds (VOCs)	SW 8260B	ug/L		
Acetone			67-64-1	< 1000
Benzene			71-43-2	**5200**
Bromobenzene			108-86-1	< 100
Bromochloromethane			74-97-5	< 100
Bromodichloromethane			75-27-4	< 100
Bromoform			75-25-2	< 100
Bromomethane			74-83-9	< 500
n-Butylbenzene			104-51-8	< 100
sec-Butylbenzene			135-98-8	< 100
tert-Butylbenzene			98-06-6	< 100
Carbon disulfide			75-15-0	< 200
Carbon tetrachloride			56-23-5	< 100
Chlorobenzene			108-90-7	< 100
Chloroethane			75-00-3	< 500
Chloroform (Trichloromethane)			67-66-3	< 100
Chloromethane			74-87-3	< 100
2-Chlorotoluene (o-Chlorotoluene)			95-49-8	< 100
4-Chlorotoluene (p-Chlorotoluene)			106-43-4	< 100
p-Cymene (4-Isopropyltoluene)			99-87-6	< 100
Dibromochloromethane			124-48-1	< 100
Dibromomethane			74-95-3	< 100
Dichlorodifluoromethane (Freon 12)			75-71-8	< 100
1,1-Dichloroethane			75-34-3	< 100
1,2-Dichloroethane			107-06-2	< 100
1,1-Dichloroethene			75-35-4	< 100

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
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			Location Name Sample Name Sample Date Parent Sample	MW-13 1600780-MW-13 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Total 1,2-Dichloroethene			540-59-0	< 200
cis-1,2-Dichloroethene			156-59-2	< 100
trans-1,2-Dichloroethene			156-60-5	< 100
1,2-Dichloropropane			78-87-5	< 100
1,3-Dichloropropane			142-28-9	< 100
2,2-Dichloropropane			594-20-7	< 100
1,1-Dichloropropene			563-58-6	< 100
cis-1,3-Dichloropropene			10061-01-5	< 100
trans-1,3-Dichloropropene			10061-02-6	< 100
Ethylbenzene			100-41-4	**4000**
2-Hexanone			591-78-6	< 1000
Isopropylbenzene			98-82-8	**150**
Methyl ethyl ketone (2-Butanone)			78-93-3	< 1000
Methyl tert-butyl ether (MTBE)			1634-04-4	**68 J**
4-Methyl-2-pentanone (MIBK)			108-10-1	< 1000
Methylene chloride			75-09-2	< 500
n-Propylbenzene			103-65-1	**520**
Styrene			100-42-5	< 100
1,1,1,2-Tetrachloroethane			630-20-6	< 100
1,1,2,2-Tetrachloroethane			79-34-5	< 100
Tetrachloroethene (PCE)			127-18-4	< 100
Toluene			108-88-3	**11000**
1,2,3-Trichlorobenzene			87-61-6	< 500
1,1,1-Trichloroethane (TCA)			71-55-6	< 100
1,1,2-Trichloroethane			79-00-5	< 100
Trichloroethene (TCE)			79-01-6	< 100

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
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			Location Name Sample Name Sample Date Parent Sample	MW-13 1600780-MW-13 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Trichlorofluoromethane (Freon 11)			75-69-4	< 100
1,2,4-Trimethylbenzene			95-63-6	**3900**
1,3,5-Trimethylbenzene			108-67-8	**1000**
Vinyl acetate			108-05-4	< 200
Vinyl chloride			75-01-4	< 100
o-Xylene			95-47-6	**4900**
m/p-Xylene			179601-23-1	**12000**
Total Xylene			1330-20-7	**17000**
Semi-Volatile Organic Compounds (SVOCs)	SW 8270D	ug/L		
Acenaphthene			83-32-9	< 1.9
Acenaphthylene			208-96-8	< 1.9
Acetophenone			98-86-2	< 9.6
Anthracene			120-12-7	< 1.9
Atrazine			1912-24-9	38 UJ
Benzaldehyde			100-52-7	< 9.6
Benzo(a)anthracene			56-55-3	< 1.9
Benzo(b)fluoranthene			205-99-2	< 1.9
Benzo(k)fluoranthene			207-08-9	< 1.9
Benzo(g,h,i)perylene			191-24-2	< 1.9
Benzo(a)pyrene			50-32-8	< 1.9
Biphenyl (1,1-Biphenyl)			92-52-4	< 9.6
Bis(2-chloroethoxy)methane			111-91-1	< 9.6
Bis(2-chloroethyl)ether			111-44-4	< 9.6
2,2-oxybis(1-Chloropropane)			108-60-1	< 9.6
Bis(2-ethylhexyl)phthalate			117-81-7	< 48
4-Bromophenyl phenyl ether			101-55-3	< 9.6

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
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			Location Name Sample Name Sample Date Parent Sample	MW-13 1600780-MW-13 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Butyl benzyl phthalate			85-68-7	< 9.6
Caprolactam			105-60-2	< 9.6
Carbazole			86-74-8	< 19
4-Chloro-3-methylphenol			59-50-7	< 9.6
4-Chloroaniline			106-47-8	< 38
2-Chloronaphthalene			91-58-7	< 9.6
2-Chlorophenol			95-57-8	< 9.6
4-Chlorophenyl phenyl ether			7005-72-3	< 9.6
Chrysene			218-01-9	< 1.9
Dibenz(a,h)anthracene			53-70-3	< 1.9
Dibenzofuran			132-64-9	< 9.6
3,3-Dichlorobenzidine			91-94-1	190 R
2,4-Dichlorophenol			120-83-2	< 9.6
Diethyl phthalate			84-66-2	< 9.6
Dimethyl phthalate			131-11-3	< 9.6
2,4-Dimethylphenol			105-67-9	**42**
Di-n-butyl phthalate			84-74-2	< 9.6
4,6-Dinitro-2-methylphenol			534-52-1	< 48
2,4-Dinitrophenol			51-28-5	< 96
2,4-Dinitrotoluene			121-14-2	< 9.6
2,6-Dinitrotoluene			606-20-2	< 9.6
Di-n-octyl phthalate			117-84-0	< 9.6
Fluoranthene			206-44-0	< 1.9
Fluorene			86-73-7	< 1.9
Hexachlorobenzene			118-74-1	< 9.6
1,3-Hexachlorobutadiene (C-46)			87-68-3	< 9.6

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-13 1600780-MW-13 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Hexachlorocyclopentadiene			77-47-4	< 19
Hexachloroethane			67-72-1	< 9.6
Indeno(1,2,3-cd)pyrene			193-39-5	< 1.9
Isophorone			78-59-1	< 9.6
2-Methylnaphthalene			91-57-6	**110**
2-Methylphenol (o-Cresol)			95-48-7	**21**
3,4-Methylphenol (m,p-Cresol)			108394/106445	**57**
Naphthalene			91-20-3	**390**
2-Nitroaniline			88-74-4	< 9.6
3-Nitroaniline			99-09-2	< 48
4-Nitroaniline			100-01-6	< 48
Nitrobenzene			98-95-3	< 9.6
2-Nitrophenol			88-75-5	< 9.6
4-Nitrophenol			100-02-7	< 77
N-Nitrosodiphenylamine (NDFA)			86-30-6	< 9.6
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	< 9.6
Pentachlorophenol			87-86-5	< 48
Phenanthrene			85-01-8	< 1.9
Phenol			108-95-2	< 9.6
Pyrene			129-00-0	< 1.9
2,4,5-Trichlorophenol			95-95-4	< 9.6
2,4,6-Trichlorophenol			88-06-2	< 9.6
Semi-Volatile Organic Compounds (SVOCs) - Dissolved	SW 8270D	ug/L		NT
Acenaphthene			83-32-9	
Acenaphthylene			208-96-8	
Acetophenone			98-86-2	

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-13 1600780-MW-13 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Anthracene			120-12-7	
Atrazine			1912-24-9	
Benzaldehyde			100-52-7	
Benzo(a)anthracene			56-55-3	
Benzo(b)fluoranthene			205-99-2	
Benzo(k)fluoranthene			207-08-9	
Benzo(g,h,i)perylene			191-24-2	
Benzo(a)pyrene			50-32-8	
Biphenyl (1,1-Biphenyl)			92-52-4	
Bis(2-chloroethoxy)methane			111-91-1	
Bis(2-chloroethyl)ether			111-44-4	
2,2-oxybis(1-Chloropropane)			108-60-1	
Bis(2-ethylhexyl)phthalate			117-81-7	
4-Bromophenyl phenyl ether			101-55-3	
Butyl benzyl phthalate			85-68-7	
Caprolactam			105-60-2	
Carbazole			86-74-8	
4-Chloro-3-methylphenol			59-50-7	
4-Chloroaniline			106-47-8	
2-Chloronaphthalene			91-58-7	
2-Chlorophenol			95-57-8	
4-Chlorophenyl phenyl ether			7005-72-3	
Chrysene			218-01-9	
Dibenz(a,h)anthracene			53-70-3	
Dibenzofuran			132-64-9	
3,3-Dichlorobenzidine			91-94-1	

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
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			Location Name Sample Name Sample Date Parent Sample	MW-13 1600780-MW-13 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
2,4-Dichlorophenol			120-83-2	
Diethyl phthalate			84-66-2	
Dimethyl phthalate			131-11-3	
2,4-Dimethylphenol			105-67-9	
Di-n-butyl phthalate			84-74-2	
4,6-Dinitro-2-methylphenol			534-52-1	
2,4-Dinitrophenol			51-28-5	
2,4-Dinitrotoluene			121-14-2	
2,6-Dinitrotoluene			606-20-2	
Di-n-octyl phthalate			117-84-0	
Fluoranthene			206-44-0	
Fluorene			86-73-7	
Hexachlorobenzene			118-74-1	
1,3-Hexachlorobutadiene (C-46)			87-68-3	
Hexachlorocyclopentadiene			77-47-4	
Hexachloroethane			67-72-1	
Indeno(1,2,3-cd)pyrene			193-39-5	
Isophorone			78-59-1	
2-Methylnaphthalene			91-57-6	
2-Methylphenol (o-Cresol)			95-48-7	
3,4-Methylphenol (m,p-Cresol)			108394/106445	
Naphthalene			91-20-3	
2-Nitroaniline			88-74-4	
3-Nitroaniline			99-09-2	
4-Nitroaniline			100-01-6	
Nitrobenzene			98-95-3	

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-13 1600780-MW-13 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
2-Nitrophenol			88-75-5	
4-Nitrophenol			100-02-7	
N-Nitrosodiphenylamine (NDFA)			86-30-6	
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	
Pentachlorophenol			87-86-5	
Phenanthrene			85-01-8	
Phenol			108-95-2	
Pyrene			129-00-0	
2,4,5-Trichlorophenol			95-95-4	
2,4,6-Trichlorophenol			88-06-2	
Metals - Total	SW 6010C	ug/L		
Antimony			7440-36-0	< 20
Arsenic			7440-38-2	**18 J**
Beryllium			7440-41-7	< 4
Cadmium			7440-43-9	< 5
Calcium			7440-70-2	**160000**
Chromium			7440-47-3	< 10
Copper			7440-50-8	**1.9 J**
Iron			7439-89-6	**12000**
Lead			7439-92-1	< 10
Magnesium			7439-95-4	**35000**
Manganese			7439-96-5	**670**
Mercury			7439-97-6	< 0.2
Nickel			7440-02-0	**4.4 J**
Potassium			7440-09-7	**4500**
Selenium			7782-49-2	< 20

Table 2. Laboratory Testing Results - Groundwater
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Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-13 1600780-MW-13 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Silver			7440-22-4	< 10
Sodium			7440-23-5	**110000**
Thallium			7440-28-0	< 25
Zinc			7440-66-6	< 20
Metals - Dissolved	SW 6010C	ug/L		NT
Antimony			7440-36-0	
Arsenic			7440-38-2	
Beryllium			7440-41-7	
Cadmium			7440-43-9	
Calcium			7440-70-2	
Chromium			7440-47-3	
Copper			7440-50-8	
Iron			7439-89-6	
Lead			7439-92-1	
Magnesium			7439-95-4	
Manganese			7439-96-5	
Mercury			7439-97-6	
Nickel			7440-02-0	
Potassium			7440-09-7	
Selenium			7782-49-2	
Silver			7440-22-4	
Sodium			7440-23-5	
Thallium			7440-28-0	
Zinc			7440-66-6	
Other				
Alkalinity	SM 2320B	mg/L	ALK	**350**

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
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			Location Name Sample Name Sample Date Parent Sample	MW-13 1600780-MW-13 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Ammonia	EPA 350.1	mg/L	7664-41-7	**0.58 J+**
Bicarbonate alkalinity as CaCO3	SM 2320B	mg/L	HCO3	**350**
Bromide	EPA 300.0	mg/L	24959-67-9	**0.6**
Chloride	EPA 300.0	mg/L	16887-00-6	**400**
Nitrate as Nitrogen	EPA 300.0	mg/L	14797-55-8	< 0.5
Sulfate	EPA 300.0	mg/L	14808-79-8	**1.6**
Sulfide	EPA 376.1	mg/L	18496-25-8	< 1
Total Dissolved Solids	SM 2540C	mg/L	TDS	**1200**
Total Phosphorous	EPA 365.4	mg/L	7723-14-0	**0.091 J**

General Notes:
1. Analytes in blue are not detected in any sample.
2. Bolding indicates a detected result concentration.
3. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
4. mg/L = milligrams/liter.
5. ug/L = micrograms per liter or parts per billion (ppb).
6. CAS No. = Chemical Abstracts Service Number.
7. NT = The sample was not tested for this analyte.

Validation Qualifiers:
J The result is an estimated value.
R The result is rejected.
UJ The results was not detected at or above the reporting limit shown and the reporting limit is estimated.
+/- Result may be biased high/low, respectively.

Table 2. Laboratory Testing Results - Groundwater
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Zill, LLC
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			Location Name Sample Name Sample Date Parent Sample	MW-15 1600780-MW-15 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Volatile Organic Compounds (VOCs)	SW 8260B	ug/L		
Acetone			67-64-1	< 250
Benzene			71-43-2	**4800**
Bromobenzene			108-86-1	< 25
Bromochloromethane			74-97-5	< 25
Bromodichloromethane			75-27-4	< 25
Bromoform			75-25-2	< 25
Bromomethane			74-83-9	< 130
n-Butylbenzene			104-51-8	< 25
sec-Butylbenzene			135-98-8	< 25
tert-Butylbenzene			98-06-6	< 25
Carbon disulfide			75-15-0	< 50
Carbon tetrachloride			56-23-5	< 25
Chlorobenzene			108-90-7	< 25
Chloroethane			75-00-3	< 130
Chloroform (Trichloromethane)			67-66-3	< 25
Chloromethane			74-87-3	< 25
2-Chlorotoluene (o-Chlorotoluene)			95-49-8	< 25
4-Chlorotoluene (p-Chlorotoluene)			106-43-4	< 25
p-Cymene (4-Isopropyltoluene)			99-87-6	< 25
Dibromochloromethane			124-48-1	< 25
Dibromomethane			74-95-3	< 25
Dichlorodifluoromethane (Freon 12)			75-71-8	< 25
1,1-Dichloroethane			75-34-3	< 25
1,2-Dichloroethane			107-06-2	< 25
1,1-Dichloroethene			75-35-4	< 25

Table 2. Laboratory Testing Results - Groundwater
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Zill, LLC
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			Location Name Sample Name Sample Date Parent Sample	MW-15 1600780-MW-15 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Total 1,2-Dichloroethene			540-59-0	< 50
cis-1,2-Dichloroethene			156-59-2	< 25
trans-1,2-Dichloroethene			156-60-5	< 25
1,2-Dichloropropane			78-87-5	< 25
1,3-Dichloropropane			142-28-9	< 25
2,2-Dichloropropane			594-20-7	< 25
1,1-Dichloropropene			563-58-6	< 25
cis-1,3-Dichloropropene			10061-01-5	< 25
trans-1,3-Dichloropropene			10061-02-6	< 25
Ethylbenzene			100-41-4	**910**
2-Hexanone			591-78-6	< 250
Isopropylbenzene			98-82-8	**26**
Methyl ethyl ketone (2-Butanone)			78-93-3	< 250
Methyl tert-butyl ether (MTBE)			1634-04-4	< 250
4-Methyl-2-pentanone (MIBK)			108-10-1	< 250
Methylene chloride			75-09-2	< 130
n-Propylbenzene			103-65-1	**64**
Styrene			100-42-5	< 25
1,1,1,2-Tetrachloroethane			630-20-6	< 25
1,1,2,2-Tetrachloroethane			79-34-5	< 25
Tetrachloroethene (PCE)			127-18-4	< 25
Toluene			108-88-3	**210**
1,2,3-Trichlorobenzene			87-61-6	< 130
1,1,1-Trichloroethane (TCA)			71-55-6	< 25
1,1,2-Trichloroethane			79-00-5	< 25
Trichloroethene (TCE)			79-01-6	< 25

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-15 1600780-MW-15 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Trichlorofluoromethane (Freon 11)			75-69-4	< 25
1,2,4-Trimethylbenzene			95-63-6	**240**
1,3,5-Trimethylbenzene			108-67-8	**110**
Vinyl acetate			108-05-4	< 50
Vinyl chloride			75-01-4	< 25
o-Xylene			95-47-6	**20 J**
m/p-Xylene			179601-23-1	**600**
Total Xylene			1330-20-7	**620**
Semi-Volatile Organic Compounds (SVOCs)	SW 8270D	ug/L		
Acenaphthene			83-32-9	
Acenaphthylene			208-96-8	
Acetophenone			98-86-2	
Anthracene			120-12-7	
Atrazine			1912-24-9	
Benzaldehyde			100-52-7	
Benzo(a)anthracene			56-55-3	
Benzo(b)fluoranthene			205-99-2	
Benzo(k)fluoranthene			207-08-9	
Benzo(g,h,i)perylene			191-24-2	
Benzo(a)pyrene			50-32-8	
Biphenyl (1,1-Biphenyl)			92-52-4	
Bis(2-chloroethoxy)methane			111-91-1	
Bis(2-chloroethyl)ether			111-44-4	
2,2-oxybis(1-Chloropropane)			108-60-1	
Bis(2-ethylhexyl)phthalate			117-81-7	
4-Bromophenyl phenyl ether			101-55-3	

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			Location Name Sample Name Sample Date Parent Sample	MW-15 1600780-MW-15 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Butyl benzyl phthalate			85-68-7	
Caprolactam			105-60-2	
Carbazole			86-74-8	
4-Chloro-3-methylphenol			59-50-7	
4-Chloroaniline			106-47-8	
2-Chloronaphthalene			91-58-7	
2-Chlorophenol			95-57-8	
4-Chlorophenyl phenyl ether			7005-72-3	
Chrysene			218-01-9	
Dibenz(a,h)anthracene			53-70-3	
Dibenzofuran			132-64-9	
3,3-Dichlorobenzidine			91-94-1	
2,4-Dichlorophenol			120-83-2	
Diethyl phthalate			84-66-2	
Dimethyl phthalate			131-11-3	
2,4-Dimethylphenol			105-67-9	
Di-n-butyl phthalate			84-74-2	
4,6-Dinitro-2-methylphenol			534-52-1	
2,4-Dinitrophenol			51-28-5	
2,4-Dinitrotoluene			121-14-2	
2,6-Dinitrotoluene			606-20-2	
Di-n-octyl phthalate			117-84-0	
Fluoranthene			206-44-0	
Fluorene			86-73-7	
Hexachlorobenzene			118-74-1	
1,3-Hexachlorobutadiene (C-46)			87-68-3	

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			Location Name Sample Name Sample Date Parent Sample	MW-15 1600780-MW-15 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Hexachlorocyclopentadiene			77-47-4	
Hexachloroethane			67-72-1	
Indeno(1,2,3-cd)pyrene			193-39-5	
Isophorone			78-59-1	
2-Methylnaphthalene			91-57-6	
2-Methylphenol (o-Cresol)			95-48-7	
3,4-Methylphenol (m,p-Cresol)			108394/106445	
Naphthalene			91-20-3	
2-Nitroaniline			88-74-4	
3-Nitroaniline			99-09-2	
4-Nitroaniline			100-01-6	
Nitrobenzene			98-95-3	
2-Nitrophenol			88-75-5	
4-Nitrophenol			100-02-7	
N-Nitrosodiphenylamine (NDFA)			86-30-6	
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	
Pentachlorophenol			87-86-5	
Phenanthrene			85-01-8	
Phenol			108-95-2	
Pyrene			129-00-0	
2,4,5-Trichlorophenol			95-95-4	
2,4,6-Trichlorophenol			88-06-2	
Semi-Volatile Organic Compounds (SVOCs) - Dissolved	SW 8270D	ug/L		NT
Acenaphthene			83-32-9	
Acenaphthylene			208-96-8	
Acetophenone			98-86-2	

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-15 1600780-MW-15 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Anthracene			120-12-7	
Atrazine			1912-24-9	
Benzaldehyde			100-52-7	
Benzo(a)anthracene			56-55-3	
Benzo(b)fluoranthene			205-99-2	
Benzo(k)fluoranthene			207-08-9	
Benzo(g,h,i)perylene			191-24-2	
Benzo(a)pyrene			50-32-8	
Biphenyl (1,1-Biphenyl)			92-52-4	
Bis(2-chloroethoxy)methane			111-91-1	
Bis(2-chloroethyl)ether			111-44-4	
2,2-oxybis(1-Chloropropane)			108-60-1	
Bis(2-ethylhexyl)phthalate			117-81-7	
4-Bromophenyl phenyl ether			101-55-3	
Butyl benzyl phthalate			85-68-7	
Caprolactam			105-60-2	
Carbazole			86-74-8	
4-Chloro-3-methylphenol			59-50-7	
4-Chloroaniline			106-47-8	
2-Chloronaphthalene			91-58-7	
2-Chlorophenol			95-57-8	
4-Chlorophenyl phenyl ether			7005-72-3	
Chrysene			218-01-9	
Dibenz(a,h)anthracene			53-70-3	
Dibenzofuran			132-64-9	
3,3-Dichlorobenzidine			91-94-1	

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			Location Name Sample Name Sample Date Parent Sample	MW-15 1600780-MW-15 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
2,4-Dichlorophenol			120-83-2	
Diethyl phthalate			84-66-2	
Dimethyl phthalate			131-11-3	
2,4-Dimethylphenol			105-67-9	
Di-n-butyl phthalate			84-74-2	
4,6-Dinitro-2-methylphenol			534-52-1	
2,4-Dinitrophenol			51-28-5	
2,4-Dinitrotoluene			121-14-2	
2,6-Dinitrotoluene			606-20-2	
Di-n-octyl phthalate			117-84-0	
Fluoranthene			206-44-0	
Fluorene			86-73-7	
Hexachlorobenzene			118-74-1	
1,3-Hexachlorobutadiene (C-46)			87-68-3	
Hexachlorocyclopentadiene			77-47-4	
Hexachloroethane			67-72-1	
Indeno(1,2,3-cd)pyrene			193-39-5	
Isophorone			78-59-1	
2-Methylnaphthalene			91-57-6	
2-Methylphenol (o-Cresol)			95-48-7	
3,4-Methylphenol (m,p-Cresol)			108394/106445	
Naphthalene			91-20-3	
2-Nitroaniline			88-74-4	
3-Nitroaniline			99-09-2	
4-Nitroaniline			100-01-6	
Nitrobenzene			98-95-3	

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			Location Name Sample Name Sample Date Parent Sample	MW-15 1600780-MW-15 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
2-Nitrophenol			88-75-5	
4-Nitrophenol			100-02-7	
N-Nitrosodiphenylamine (NDFA)			86-30-6	
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	
Pentachlorophenol			87-86-5	
Phenanthrene			85-01-8	
Phenol			108-95-2	
Pyrene			129-00-0	
2,4,5-Trichlorophenol			95-95-4	
2,4,6-Trichlorophenol			88-06-2	
Metals - Total	SW 6010C	ug/L		
Antimony			7440-36-0	
Arsenic			7440-38-2	
Beryllium			7440-41-7	
Cadmium			7440-43-9	
Calcium			7440-70-2	
Chromium			7440-47-3	
Copper			7440-50-8	
Iron			7439-89-6	
Lead			7439-92-1	
Magnesium			7439-95-4	
Manganese			7439-96-5	
Mercury			7439-97-6	
Nickel			7440-02-0	
Potassium			7440-09-7	
Selenium			7782-49-2	

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			Location Name Sample Name Sample Date Parent Sample	MW-15 1600780-MW-15 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Silver			7440-22-4	
Sodium			7440-23-5	
Thallium			7440-28-0	
Zinc			7440-66-6	
Metals - Dissolved	SW 6010C	ug/L		NT
Antimony			7440-36-0	
Arsenic			7440-38-2	
Beryllium			7440-41-7	
Cadmium			7440-43-9	
Calcium			7440-70-2	
Chromium			7440-47-3	
Copper			7440-50-8	
Iron			7439-89-6	
Lead			7439-92-1	
Magnesium			7439-95-4	
Manganese			7439-96-5	
Mercury			7439-97-6	
Nickel			7440-02-0	
Potassium			7440-09-7	
Selenium			7782-49-2	
Silver			7440-22-4	
Sodium			7440-23-5	
Thallium			7440-28-0	
Zinc			7440-66-6	
Other				NT
Alkalinity	SM 2320B	mg/L	ALK	

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			Location Name Sample Name Sample Date Parent Sample	MW-15 1600780-MW-15 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Ammonia	EPA 350.1	mg/L	7664-41-7	
Bicarbonate alkalinity as CaCO3	SM 2320B	mg/L	HCO3	
Bromide	EPA 300.0	mg/L	24959-67-9	
Chloride	EPA 300.0	mg/L	16887-00-6	
Nitrate as Nitrogen	EPA 300.0	mg/L	14797-55-8	
Sulfate	EPA 300.0	mg/L	14808-79-8	
Sulfide	EPA 376.1	mg/L	18496-25-8	
Total Dissolved Solids	SM 2540C	mg/L	TDS	
Total Phosphorous	EPA 365.4	mg/L	7723-14-0	

General Notes:
1. Analytes in blue are not detected in any sample.
2. Bolding indicates a detected result concentration.
3. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
4. mg/L = milligrams/liter.
5. ug/L = micrograms per liter or parts per billion (ppb).
6. CAS No. = Chemical Abstracts Service Number.
7. NT = The sample was not tested for this analyte.

Validation Qualifiers:
J The result is an estimated value.
R The result is rejected.
UJ The results was not detected at or above the reporting limit shown and the reporting limit is estimated.
+/- Result may be biased high/low, respectively.

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			Location Name Sample Name Sample Date Parent Sample	MW-17 1600780-MW-17 8/3/2016
Analyte	**Method**	**Units**	**CAS No.**	
Volatile Organic Compounds (VOCs)	SW 8260B	ug/L		
Acetone			67-64-1	< 500
Benzene			71-43-2	**11000**
Bromobenzene			108-86-1	< 50
Bromochloromethane			74-97-5	< 50
Bromodichloromethane			75-27-4	< 50
Bromoform			75-25-2	< 50
Bromomethane			74-83-9	< 250
n-Butylbenzene			104-51-8	< 50
sec-Butylbenzene			135-98-8	< 50
tert-Butylbenzene			98-06-6	< 50
Carbon disulfide			75-15-0	< 100
Carbon tetrachloride			56-23-5	< 50
Chlorobenzene			108-90-7	< 50
Chloroethane			75-00-3	< 250
Chloroform (Trichloromethane)			67-66-3	< 50
Chloromethane			74-87-3	< 50
2-Chlorotoluene (o-Chlorotoluene)			95-49-8	< 50
4-Chlorotoluene (p-Chlorotoluene)			106-43-4	< 50
p-Cymene (4-Isopropyltoluene)			99-87-6	< 50
Dibromochloromethane			124-48-1	< 50
Dibromomethane			74-95-3	< 50
Dichlorodifluoromethane (Freon 12)			75-71-8	< 50
1,1-Dichloroethane			75-34-3	< 50
1,2-Dichloroethane			107-06-2	< 50
1,1-Dichloroethene			75-35-4	< 50

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			Location Name Sample Name Sample Date Parent Sample	MW-17 1600780-MW-17 8/3/2016
Analyte	**Method**	**Units**	**CAS No.**	
Total 1,2-Dichloroethene			540-59-0	< 100
cis-1,2-Dichloroethene			156-59-2	< 50
trans-1,2-Dichloroethene			156-60-5	< 50
1,2-Dichloropropane			78-87-5	< 50
1,3-Dichloropropane			142-28-9	< 50
2,2-Dichloropropane			594-20-7	< 50
1,1-Dichloropropene			563-58-6	< 50
cis-1,3-Dichloropropene			10061-01-5	< 50
trans-1,3-Dichloropropene			10061-02-6	< 50
Ethylbenzene			100-41-4	**220**
2-Hexanone			591-78-6	< 500
Isopropylbenzene			98-82-8	**53**
Methyl ethyl ketone (2-Butanone)			78-93-3	< 500
Methyl tert-butyl ether (MTBE)			1634-04-4	**82 J**
4-Methyl-2-pentanone (MIBK)			108-10-1	< 500
Methylene chloride			75-09-2	< 250
n-Propylbenzene			103-65-1	**110**
Styrene			100-42-5	< 50
1,1,1,2-Tetrachloroethane			630-20-6	< 50
1,1,2,2-Tetrachloroethane			79-34-5	< 50
Tetrachloroethene (PCE)			127-18-4	< 50
Toluene			108-88-3	**200**
1,2,3-Trichlorobenzene			87-61-6	< 250
1,1,1-Trichloroethane (TCA)			71-55-6	< 50
1,1,2-Trichloroethane			79-00-5	< 50
Trichloroethene (TCE)			79-01-6	< 50

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			Location Name Sample Name Sample Date Parent Sample	MW-17 1600780-MW-17 8/3/2016
Analyte	**Method**	**Units**	**CAS No.**	
Trichlorofluoromethane (Freon 11)			75-69-4	< 50
1,2,4-Trimethylbenzene			95-63-6	**120**
1,3,5-Trimethylbenzene			108-67-8	**39 J**
Vinyl acetate			108-05-4	< 100
Vinyl chloride			75-01-4	< 50
o-Xylene			95-47-6	**130**
m/p-Xylene			179601-23-1	**490**
Total Xylene			1330-20-7	**620**
Semi-Volatile Organic Compounds (SVOCs)	SW 8270D	ug/L		
Acenaphthene			83-32-9	< 0.19
Acenaphthylene			208-96-8	< 0.19
Acetophenone			98-86-2	**12**
Anthracene			120-12-7	< 0.19
Atrazine			1912-24-9	< 3.8
Benzaldehyde			100-52-7	< 0.95
Benzo(a)anthracene			56-55-3	< 0.19
Benzo(b)fluoranthene			205-99-2	< 0.19
Benzo(k)fluoranthene			207-08-9	< 0.19
Benzo(g,h,i)perylene			191-24-2	< 0.19
Benzo(a)pyrene			50-32-8	< 0.19
Biphenyl (1,1-Biphenyl)			92-52-4	< 0.95
Bis(2-chloroethoxy)methane			111-91-1	< 0.95
Bis(2-chloroethyl)ether			111-44-4	< 0.95
2,2-oxybis(1-Chloropropane)			108-60-1	< 0.95
Bis(2-ethylhexyl)phthalate			117-81-7	< 4.8
4-Bromophenyl phenyl ether			101-55-3	< 0.95

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			Location Name Sample Name Sample Date Parent Sample	MW-17 1600780-MW-17 8/3/2016
Analyte	**Method**	**Units**	**CAS No.**	
Butyl benzyl phthalate			85-68-7	< 0.95
Caprolactam			105-60-2	< 0.95
Carbazole			86-74-8	< 1.9
4-Chloro-3-methylphenol			59-50-7	< 0.95
4-Chloroaniline			106-47-8	< 3.8
2-Chloronaphthalene			91-58-7	< 0.95
2-Chlorophenol			95-57-8	< 0.95
4-Chlorophenyl phenyl ether			7005-72-3	< 0.95
Chrysene			218-01-9	< 0.19
Dibenz(a,h)anthracene			53-70-3	< 0.19
Dibenzofuran			132-64-9	< 0.95
3,3-Dichlorobenzidine			91-94-1	< 19
2,4-Dichlorophenol			120-83-2	< 0.95
Diethyl phthalate			84-66-2	< 0.95
Dimethyl phthalate			131-11-3	< 0.95
2,4-Dimethylphenol			105-67-9	**44**
Di-n-butyl phthalate			84-74-2	< 0.95
4,6-Dinitro-2-methylphenol			534-52-1	< 4.8
2,4-Dinitrophenol			51-28-5	< 9.5
2,4-Dinitrotoluene			121-14-2	< 0.95
2,6-Dinitrotoluene			606-20-2	< 0.95
Di-n-octyl phthalate			117-84-0	< 0.95
Fluoranthene			206-44-0	< 0.19
Fluorene			86-73-7	< 0.19
Hexachlorobenzene			118-74-1	< 0.95
1,3-Hexachlorobutadiene (C-46)			87-68-3	< 0.95

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			Location Name Sample Name Sample Date Parent Sample	MW-17 1600780-MW-17 8/3/2016
Analyte	**Method**	**Units**	**CAS No.**	
Hexachlorocyclopentadiene			77-47-4	< 1.9
Hexachloroethane			67-72-1	< 0.95
Indeno(1,2,3-cd)pyrene			193-39-5	< 0.19
Isophorone			78-59-1	< 0.95
2-Methylnaphthalene			91-57-6	**9.2**
2-Methylphenol (o-Cresol)			95-48-7	**4.1**
3,4-Methylphenol (m,p-Cresol)			108394/106445	< 1.9
Naphthalene			91-20-3	**30**
2-Nitroaniline			88-74-4	< 0.95
3-Nitroaniline			99-09-2	< 4.8
4-Nitroaniline			100-01-6	< 4.8
Nitrobenzene			98-95-3	< 0.95
2-Nitrophenol			88-75-5	< 0.95
4-Nitrophenol			100-02-7	< 7.6
N-Nitrosodiphenylamine (NDFA)			86-30-6	< 0.95
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	< 0.95
Pentachlorophenol			87-86-5	< 4.8
Phenanthrene			85-01-8	< 0.19
Phenol			108-95-2	**140**
Pyrene			129-00-0	< 0.19
2,4,5-Trichlorophenol			95-95-4	< 0.95
2,4,6-Trichlorophenol			88-06-2	< 0.95
Semi-Volatile Organic Compounds (SVOCs) - Dissolved	SW 8270D	ug/L		NT
Acenaphthene			83-32-9	
Acenaphthylene			208-96-8	
Acetophenone			98-86-2	

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			Location Name Sample Name Sample Date Parent Sample	MW-17 1600780-MW-17 8/3/2016
Analyte	**Method**	**Units**	**CAS No.**	
Anthracene			120-12-7	
Atrazine			1912-24-9	
Benzaldehyde			100-52-7	
Benzo(a)anthracene			56-55-3	
Benzo(b)fluoranthene			205-99-2	
Benzo(k)fluoranthene			207-08-9	
Benzo(g,h,i)perylene			191-24-2	
Benzo(a)pyrene			50-32-8	
Biphenyl (1,1-Biphenyl)			92-52-4	
Bis(2-chloroethoxy)methane			111-91-1	
Bis(2-chloroethyl)ether			111-44-4	
2,2-oxybis(1-Chloropropane)			108-60-1	
Bis(2-ethylhexyl)phthalate			117-81-7	
4-Bromophenyl phenyl ether			101-55-3	
Butyl benzyl phthalate			85-68-7	
Caprolactam			105-60-2	
Carbazole			86-74-8	
4-Chloro-3-methylphenol			59-50-7	
4-Chloroaniline			106-47-8	
2-Chloronaphthalene			91-58-7	
2-Chlorophenol			95-57-8	
4-Chlorophenyl phenyl ether			7005-72-3	
Chrysene			218-01-9	
Dibenz(a,h)anthracene			53-70-3	
Dibenzofuran			132-64-9	
3,3-Dichlorobenzidine			91-94-1	

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-17 1600780-MW-17 8/3/2016
Analyte	**Method**	**Units**	**CAS No.**	
2,4-Dichlorophenol			120-83-2	
Diethyl phthalate			84-66-2	
Dimethyl phthalate			131-11-3	
2,4-Dimethylphenol			105-67-9	
Di-n-butyl phthalate			84-74-2	
4,6-Dinitro-2-methylphenol			534-52-1	
2,4-Dinitrophenol			51-28-5	
2,4-Dinitrotoluene			121-14-2	
2,6-Dinitrotoluene			606-20-2	
Di-n-octyl phthalate			117-84-0	
Fluoranthene			206-44-0	
Fluorene			86-73-7	
Hexachlorobenzene			118-74-1	
1,3-Hexachlorobutadiene (C-46)			87-68-3	
Hexachlorocyclopentadiene			77-47-4	
Hexachloroethane			67-72-1	
Indeno(1,2,3-cd)pyrene			193-39-5	
Isophorone			78-59-1	
2-Methylnaphthalene			91-57-6	
2-Methylphenol (o-Cresol)			95-48-7	
3,4-Methylphenol (m,p-Cresol)			108394/106445	
Naphthalene			91-20-3	
2-Nitroaniline			88-74-4	
3-Nitroaniline			99-09-2	
4-Nitroaniline			100-01-6	
Nitrobenzene			98-95-3	

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
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			Location Name Sample Name Sample Date Parent Sample	MW-17 1600780-MW-17 8/3/2016
Analyte	**Method**	**Units**	**CAS No.**	
2-Nitrophenol			88-75-5	
4-Nitrophenol			100-02-7	
N-Nitrosodiphenylamine (NDFA)			86-30-6	
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	
Pentachlorophenol			87-86-5	
Phenanthrene			85-01-8	
Phenol			108-95-2	
Pyrene			129-00-0	
2,4,5-Trichlorophenol			95-95-4	
2,4,6-Trichlorophenol			88-06-2	
Metals - Total	SW 6010C	ug/L		
Antimony			7440-36-0	< 20
Arsenic			7440-38-2	< 20
Beryllium			7440-41-7	< 4
Cadmium			7440-43-9	< 5
Calcium			7440-70-2	**230000**
Chromium			7440-47-3	< 10
Copper			7440-50-8	< 20
Iron			7439-89-6	**10000**
Lead			7439-92-1	< 10
Magnesium			7439-95-4	**36000**
Manganese			7439-96-5	**4000**
Mercury			7439-97-6	< 0.2
Nickel			7440-02-0	**7 J**
Potassium			7440-09-7	**570 J**
Selenium			7782-49-2	< 20

Table 2. Laboratory Testing Results - Groundwater
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Zill, LLC
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			Location Name Sample Name Sample Date Parent Sample	MW-17 1600780-MW-17 8/3/2016
Analyte	**Method**	**Units**	**CAS No.**	
Silver			7440-22-4	< 10
Sodium			7440-23-5	**71000**
Thallium			7440-28-0	< 25
Zinc			7440-66-6	< 20
Metals - Dissolved	SW 6010C	ug/L		NT
Antimony			7440-36-0	
Arsenic			7440-38-2	
Beryllium			7440-41-7	
Cadmium			7440-43-9	
Calcium			7440-70-2	
Chromium			7440-47-3	
Copper			7440-50-8	
Iron			7439-89-6	
Lead			7439-92-1	
Magnesium			7439-95-4	
Manganese			7439-96-5	
Mercury			7439-97-6	
Nickel			7440-02-0	
Potassium			7440-09-7	
Selenium			7782-49-2	
Silver			7440-22-4	
Sodium			7440-23-5	
Thallium			7440-28-0	
Zinc			7440-66-6	
Other				
Alkalinity	SM 2320B	mg/L	ALK	**670 J**

Table 2. Laboratory Testing Results - Groundwater
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Zill, LLC
Kansas City, Missouri

			Location Name	MW-17
			Sample Name	1600780-MW-17
			Sample Date	8/3/2016
			Parent Sample	
Analyte	**Method**	**Units**	**CAS No.**	
Ammonia	EPA 350.1	mg/L	7664-41-7	**0.1 J**
Bicarbonate alkalinity as CaCO3	SM 2320B	mg/L	HCO3	**670 J**
Bromide	EPA 300.0	mg/L	24959-67-9	**0.69**
Chloride	EPA 300.0	mg/L	16887-00-6	**110**
Nitrate as Nitrogen	EPA 300.0	mg/L	14797-55-8	< 0.05
Sulfate	EPA 300.0	mg/L	14808-79-8	**2.5**
Sulfide	EPA 376.1	mg/L	18496-25-8	< 1
Total Dissolved Solids	SM 2540C	mg/L	TDS	**880**
Total Phosphorous	EPA 365.4	mg/L	7723-14-0	**0.072 J**

General Notes:
1. Analytes in blue are not detected in any sample.
2. Bolding indicates a detected result concentration.
3. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
4. mg/L = milligrams/liter.
5. ug/L = micrograms per liter or parts per billion (ppb).
6. CAS No. = Chemical Abstracts Service Number.
7. NT = The sample was not tested for this analyte.

Validation Qualifiers:
J The result is an estimated value.
R The result is rejected.
UJ The results was not detected at or above the reporting limit shown and the reporting limit is estimated.
+/- Result may be biased high/low, respectively.

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-18 1600780-MW-18 8/3/2016
Analyte	**Method**	**Units**	**CAS No.**	
Volatile Organic Compounds (VOCs)	SW 8260B	ug/L		
Acetone			67-64-1	< 500
Benzene			71-43-2	**4600**
Bromobenzene			108-86-1	< 50
Bromochloromethane			74-97-5	< 50
Bromodichloromethane			75-27-4	< 50
Bromoform			75-25-2	< 50
Bromomethane			74-83-9	< 250
n-Butylbenzene			104-51-8	< 50
sec-Butylbenzene			135-98-8	50 UJ
tert-Butylbenzene			98-06-6	50 UJ
Carbon disulfide			75-15-0	< 100
Carbon tetrachloride			56-23-5	< 50
Chlorobenzene			108-90-7	< 50
Chloroethane			75-00-3	< 250
Chloroform (Trichloromethane)			67-66-3	< 50
Chloromethane			74-87-3	< 50
2-Chlorotoluene (o-Chlorotoluene)			95-49-8	< 50
4-Chlorotoluene (p-Chlorotoluene)			106-43-4	< 50
p-Cymene (4-Isopropyltoluene)			99-87-6	50 UJ
Dibromochloromethane			124-48-1	< 50
Dibromomethane			74-95-3	< 50
Dichlorodifluoromethane (Freon 12)			75-71-8	< 50
1,1-Dichloroethane			75-34-3	< 50
1,2-Dichloroethane			107-06-2	< 50
1,1-Dichloroethene			75-35-4	< 50

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-18 1600780-MW-18 8/3/2016
Analyte	**Method**	**Units**	**CAS No.**	
Total 1,2-Dichloroethene			540-59-0	< 100
cis-1,2-Dichloroethene			156-59-2	< 50
trans-1,2-Dichloroethene			156-60-5	< 50
1,2-Dichloropropane			78-87-5	< 50
1,3-Dichloropropane			142-28-9	< 50
2,2-Dichloropropane			594-20-7	< 50
1,1-Dichloropropene			563-58-6	< 50
cis-1,3-Dichloropropene			10061-01-5	< 50
trans-1,3-Dichloropropene			10061-02-6	< 50
Ethylbenzene			100-41-4	**1200**
2-Hexanone			591-78-6	< 500
Isopropylbenzene			98-82-8	**110**
Methyl ethyl ketone (2-Butanone)			78-93-3	< 500
Methyl tert-butyl ether (MTBE)			1634-04-4	< 500
4-Methyl-2-pentanone (MIBK)			108-10-1	< 500
Methylene chloride			75-09-2	< 250
n-Propylbenzene			103-65-1	**330 J-**
Styrene			100-42-5	< 50
1,1,1,2-Tetrachloroethane			630-20-6	< 50
1,1,2,2-Tetrachloroethane			79-34-5	< 50
Tetrachloroethene (PCE)			127-18-4	< 50
Toluene			108-88-3	**1600 J+**
1,2,3-Trichlorobenzene			87-61-6	< 250
1,1,1-Trichloroethane (TCA)			71-55-6	< 50
1,1,2-Trichloroethane			79-00-5	< 50
Trichloroethene (TCE)			79-01-6	< 50

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
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			Location Name Sample Name Sample Date Parent Sample	MW-18 1600780-MW-18 8/3/2016
Analyte	**Method**	**Units**	**CAS No.**	
Trichlorofluoromethane (Freon 11)			75-69-4	< 50
1,2,4-Trimethylbenzene			95-63-6	**2200 J-**
1,3,5-Trimethylbenzene			108-67-8	**640 J-**
Vinyl acetate			108-05-4	< 100
Vinyl chloride			75-01-4	< 50
o-Xylene			95-47-6	**1100**
m/p-Xylene			179601-23-1	**4200 J-**
Total Xylene			1330-20-7	**5300**
Semi-Volatile Organic Compounds (SVOCs)	SW 8270D	ug/L		
Acenaphthene			83-32-9	**0.16 J**
Acenaphthylene			208-96-8	< 0.19
Acetophenone			98-86-2	4.8 UJ
Anthracene			120-12-7	< 0.19
Atrazine			1912-24-9	< 3.8
Benzaldehyde			100-52-7	< 0.95
Benzo(a)anthracene			56-55-3	< 0.19
Benzo(b)fluoranthene			205-99-2	< 0.19
Benzo(k)fluoranthene			207-08-9	< 0.19
Benzo(g,h,i)perylene			191-24-2	< 0.19
Benzo(a)pyrene			50-32-8	< 0.19
Biphenyl (1,1-Biphenyl)			92-52-4	0.77 J
Bis(2-chloroethoxy)methane			111-91-1	< 0.95
Bis(2-chloroethyl)ether			111-44-4	0.95 R
2,2-oxybis(1-Chloropropane)			108-60-1	< 0.95
Bis(2-ethylhexyl)phthalate			117-81-7	< 4.8
4-Bromophenyl phenyl ether			101-55-3	< 0.95

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
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			Location Name Sample Name Sample Date Parent Sample	MW-18 1600780-MW-18 8/3/2016
Analyte	**Method**	**Units**	**CAS No.**	
Butyl benzyl phthalate			85-68-7	< 0.95
Caprolactam			105-60-2	0.95 R
Carbazole			86-74-8	< 1.9
4-Chloro-3-methylphenol			59-50-7	0.95 R
4-Chloroaniline			106-47-8	3.8 R
2-Chloronaphthalene			91-58-7	< 0.95
2-Chlorophenol			95-57-8	0.95 R
4-Chlorophenyl phenyl ether			7005-72-3	< 0.95
Chrysene			218-01-9	< 0.19
Dibenz(a,h)anthracene			53-70-3	< 0.19
Dibenzofuran			132-64-9	< 0.95
3,3-Dichlorobenzidine			91-94-1	19 R
2,4-Dichlorophenol			120-83-2	< 0.95
Diethyl phthalate			84-66-2	< 0.95
Dimethyl phthalate			131-11-3	< 0.95
2,4-Dimethylphenol			105-67-9	**37 J**
Di-n-butyl phthalate			84-74-2	< 0.95
4,6-Dinitro-2-methylphenol			534-52-1	< 4.8
2,4-Dinitrophenol			51-28-5	< 9.5
2,4-Dinitrotoluene			121-14-2	< 0.95
2,6-Dinitrotoluene			606-20-2	**0.74 J**
Di-n-octyl phthalate			117-84-0	< 0.95
Fluoranthene			206-44-0	< 0.19
Fluorene			86-73-7	**0.26**
Hexachlorobenzene			118-74-1	< 0.95
1,3-Hexachlorobutadiene (C-46)			87-68-3	< 0.95

Table 2. Laboratory Testing Results - Groundwater
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Zill, LLC
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			Location Name Sample Name Sample Date Parent Sample	MW-18 1600780-MW-18 8/3/2016
Analyte	**Method**	**Units**	**CAS No.**	
Hexachlorocyclopentadiene			77-47-4	1.9 R
Hexachloroethane			67-72-1	0.95 R
Indeno(1,2,3-cd)pyrene			193-39-5	< 0.19
Isophorone			78-59-1	< 0.95
2-Methylnaphthalene			91-57-6	**91**
2-Methylphenol (o-Cresol)			95-48-7	**12 J**
3,4-Methylphenol (m,p-Cresol)			108394/106445	**16 J**
Naphthalene			91-20-3	**180 J**
2-Nitroaniline			88-74-4	< 0.95
3-Nitroaniline			99-09-2	4.8 R
4-Nitroaniline			100-01-6	4.8 R
Nitrobenzene			98-95-3	< 0.95
2-Nitrophenol			88-75-5	< 0.95
4-Nitrophenol			100-02-7	< 7.6
N-Nitrosodiphenylamine (NDFA)			86-30-6	< 0.95
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	< 0.95
Pentachlorophenol			87-86-5	< 4.8
Phenanthrene			85-01-8	**0.36**
Phenol			108-95-2	**79 J**
Pyrene			129-00-0	< 0.19
2,4,5-Trichlorophenol			95-95-4	< 0.95
2,4,6-Trichlorophenol			88-06-2	< 0.95
Semi-Volatile Organic Compounds (SVOCs) - Dissolved	SW 8270D	ug/L		NT
Acenaphthene			83-32-9	
Acenaphthylene			208-96-8	
Acetophenone			98-86-2	

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
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			Location Name Sample Name Sample Date Parent Sample	MW-18 1600780-MW-18 8/3/2016
Analyte	**Method**	**Units**	**CAS No.**	
Anthracene			120-12-7	
Atrazine			1912-24-9	
Benzaldehyde			100-52-7	
Benzo(a)anthracene			56-55-3	
Benzo(b)fluoranthene			205-99-2	
Benzo(k)fluoranthene			207-08-9	
Benzo(g,h,i)perylene			191-24-2	
Benzo(a)pyrene			50-32-8	
Biphenyl (1,1-Biphenyl)			92-52-4	
Bis(2-chloroethoxy)methane			111-91-1	
Bis(2-chloroethyl)ether			111-44-4	
2,2-oxybis(1-Chloropropane)			108-60-1	
Bis(2-ethylhexyl)phthalate			117-81-7	
4-Bromophenyl phenyl ether			101-55-3	
Butyl benzyl phthalate			85-68-7	
Caprolactam			105-60-2	
Carbazole			86-74-8	
4-Chloro-3-methylphenol			59-50-7	
4-Chloroaniline			106-47-8	
2-Chloronaphthalene			91-58-7	
2-Chlorophenol			95-57-8	
4-Chlorophenyl phenyl ether			7005-72-3	
Chrysene			218-01-9	
Dibenz(a,h)anthracene			53-70-3	
Dibenzofuran			132-64-9	
3,3-Dichlorobenzidine			91-94-1	

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
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			Location Name Sample Name Sample Date Parent Sample	MW-18 1600780-MW-18 8/3/2016
Analyte	**Method**	**Units**	**CAS No.**	
2,4-Dichlorophenol			120-83-2	
Diethyl phthalate			84-66-2	
Dimethyl phthalate			131-11-3	
2,4-Dimethylphenol			105-67-9	
Di-n-butyl phthalate			84-74-2	
4,6-Dinitro-2-methylphenol			534-52-1	
2,4-Dinitrophenol			51-28-5	
2,4-Dinitrotoluene			121-14-2	
2,6-Dinitrotoluene			606-20-2	
Di-n-octyl phthalate			117-84-0	
Fluoranthene			206-44-0	
Fluorene			86-73-7	
Hexachlorobenzene			118-74-1	
1,3-Hexachlorobutadiene (C-46)			87-68-3	
Hexachlorocyclopentadiene			77-47-4	
Hexachloroethane			67-72-1	
Indeno(1,2,3-cd)pyrene			193-39-5	
Isophorone			78-59-1	
2-Methylnaphthalene			91-57-6	
2-Methylphenol (o-Cresol)			95-48-7	
3,4-Methylphenol (m,p-Cresol)			108394/106445	
Naphthalene			91-20-3	
2-Nitroaniline			88-74-4	
3-Nitroaniline			99-09-2	
4-Nitroaniline			100-01-6	
Nitrobenzene			98-95-3	

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-18 1600780-MW-18 8/3/2016
Analyte	**Method**	**Units**	**CAS No.**	
2-Nitrophenol			88-75-5	
4-Nitrophenol			100-02-7	
N-Nitrosodiphenylamine (NDFA)			86-30-6	
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	
Pentachlorophenol			87-86-5	
Phenanthrene			85-01-8	
Phenol			108-95-2	
Pyrene			129-00-0	
2,4,5-Trichlorophenol			95-95-4	
2,4,6-Trichlorophenol			88-06-2	
Metals - Total	SW 6010C	ug/L		
Antimony			7440-36-0	< 20
Arsenic			7440-38-2	**8.8 J**
Beryllium			7440-41-7	< 4
Cadmium			7440-43-9	< 5
Calcium			7440-70-2	**310000**
Chromium			7440-47-3	< 10
Copper			7440-50-8	< 20
Iron			7439-89-6	**12000 J+**
Lead			7439-92-1	< 10
Magnesium			7439-95-4	**62000**
Manganese			7439-96-5	**3500**
Mercury			7439-97-6	< 0.2
Nickel			7440-02-0	**7.4 J**
Potassium			7440-09-7	**2300**
Selenium			7782-49-2	< 20

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-18 1600780-MW-18 8/3/2016
Analyte	**Method**	**Units**	**CAS No.**	
Silver			7440-22-4	< 10
Sodium			7440-23-5	**59000**
Thallium			7440-28-0	< 25
Zinc			7440-66-6	< 20
Metals - Dissolved	SW 6010C	ug/L		NT
Antimony			7440-36-0	
Arsenic			7440-38-2	
Beryllium			7440-41-7	
Cadmium			7440-43-9	
Calcium			7440-70-2	
Chromium			7440-47-3	
Copper			7440-50-8	
Iron			7439-89-6	
Lead			7439-92-1	
Magnesium			7439-95-4	
Manganese			7439-96-5	
Mercury			7439-97-6	
Nickel			7440-02-0	
Potassium			7440-09-7	
Selenium			7782-49-2	
Silver			7440-22-4	
Sodium			7440-23-5	
Thallium			7440-28-0	
Zinc			7440-66-6	
Other				
Alkalinity	SM 2320B	mg/L	ALK	**590**

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-18 1600780-MW-18 8/3/2016
Analyte	**Method**	**Units**	**CAS No.**	
Ammonia	EPA 350.1	mg/L	7664-41-7	< 0.25
Bicarbonate alkalinity as CaCO3	SM 2320B	mg/L	HCO3	**590**
Bromide	EPA 300.0	mg/L	24959-67-9	**0.55**
Chloride	EPA 300.0	mg/L	16887-00-6	**110**
Nitrate as Nitrogen	EPA 300.0	mg/L	14797-55-8	< 0.05
Sulfate	EPA 300.0	mg/L	14808-79-8	**410**
Sulfide	EPA 376.1	mg/L	18496-25-8	**3.3 J**
Total Dissolved Solids	SM 2540C	mg/L	TDS	**1400**
Total Phosphorous	EPA 365.4	mg/L	7723-14-0	**0.049 J**

General Notes:
1. Analytes in blue are not detected in any sample.
2. Bolding indicates a detected result concentration.
3. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
4. mg/L = milligrams/liter.
5. ug/L = micrograms per liter or parts per billion (ppb).
6. CAS No. = Chemical Abstracts Service Number.
7. NT = The sample was not tested for this analyte.

Validation Qualifiers:
J The result is an estimated value.
R The result is rejected.
UJ The results was not detected at or above the reporting limit shown and the reporting limit is estimated.
+/- Result may be biased high/low, respectively.

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name	MW-18
			Sample Name	1600780-DP-1
			Sample Date	8/3/2016
			Parent Sample	1600780-MW-18
Analyte	**Method**	**Units**	**CAS No.**	
Volatile Organic Compounds (VOCs)	SW 8260B	ug/L		
Acetone			67-64-1	< 500
Benzene			71-43-2	**4600**
Bromobenzene			108-86-1	< 50
Bromochloromethane			74-97-5	< 50
Bromodichloromethane			75-27-4	< 50
Bromoform			75-25-2	< 50
Bromomethane			74-83-9	< 250
n-Butylbenzene			104-51-8	< 50
sec-Butylbenzene			135-98-8	< 50
tert-Butylbenzene			98-06-6	< 50
Carbon disulfide			75-15-0	< 100
Carbon tetrachloride			56-23-5	< 50
Chlorobenzene			108-90-7	< 50
Chloroethane			75-00-3	< 250
Chloroform (Trichloromethane)			67-66-3	< 50
Chloromethane			74-87-3	< 50
2-Chlorotoluene (o-Chlorotoluene)			95-49-8	< 50
4-Chlorotoluene (p-Chlorotoluene)			106-43-4	< 50
p-Cymene (4-Isopropyltoluene)			99-87-6	< 50
Dibromochloromethane			124-48-1	< 50
Dibromomethane			74-95-3	< 50
Dichlorodifluoromethane (Freon 12)			75-71-8	< 50
1,1-Dichloroethane			75-34-3	< 50
1,2-Dichloroethane			107-06-2	< 50
1,1-Dichloroethene			75-35-4	< 50

Table 2. Laboratory Testing Results - Groundwater
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Zill, LLC
Kansas City, Missouri

			Location Name	MW-18
			Sample Name	1600780-DP-1
			Sample Date	8/3/2016
			Parent Sample	1600780-MW-18
Analyte	**Method**	**Units**	**CAS No.**	
Total 1,2-Dichloroethene			540-59-0	< 100
cis-1,2-Dichloroethene			156-59-2	< 50
trans-1,2-Dichloroethene			156-60-5	< 50
1,2-Dichloropropane			78-87-5	< 50
1,3-Dichloropropane			142-28-9	< 50
2,2-Dichloropropane			594-20-7	< 50
1,1-Dichloropropene			563-58-6	< 50
cis-1,3-Dichloropropene			10061-01-5	< 50
trans-1,3-Dichloropropene			10061-02-6	< 50
Ethylbenzene			100-41-4	**1200**
2-Hexanone			591-78-6	< 500
Isopropylbenzene			98-82-8	**100**
Methyl ethyl ketone (2-Butanone)			78-93-3	< 500
Methyl tert-butyl ether (MTBE)			1634-04-4	< 500
4-Methyl-2-pentanone (MIBK)			108-10-1	< 500
Methylene chloride			75-09-2	< 250
n-Propylbenzene			103-65-1	**310**
Styrene			100-42-5	< 50
1,1,1,2-Tetrachloroethane			630-20-6	< 50
1,1,2,2-Tetrachloroethane			79-34-5	< 50
Tetrachloroethene (PCE)			127-18-4	< 50
Toluene			108-88-3	**1500**
1,2,3-Trichlorobenzene			87-61-6	< 250
1,1,1-Trichloroethane (TCA)			71-55-6	< 50
1,1,2-Trichloroethane			79-00-5	< 50
Trichloroethene (TCE)			79-01-6	< 50

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name	MW-18
			Sample Name	1600780-DP-1
			Sample Date	8/3/2016
			Parent Sample	1600780-MW-18
Analyte	**Method**	**Units**	**CAS No.**	
Trichlorofluoromethane (Freon 11)			75-69-4	< 50
1,2,4-Trimethylbenzene			95-63-6	**2100**
1,3,5-Trimethylbenzene			108-67-8	**610**
Vinyl acetate			108-05-4	< 100
Vinyl chloride			75-01-4	< 50
o-Xylene			95-47-6	**1000**
m/p-Xylene			179601-23-1	**3900**
Total Xylene			1330-20-7	**4900**
Semi-Volatile Organic Compounds (SVOCs)	SW 8270D	ug/L		
Acenaphthene			83-32-9	< 0.19
Acenaphthylene			208-96-8	< 0.19
Acetophenone			98-86-2	**39 J**
Anthracene			120-12-7	< 0.19
Atrazine			1912-24-9	< 3.8
Benzaldehyde			100-52-7	< 0.95
Benzo(a)anthracene			56-55-3	< 0.19
Benzo(b)fluoranthene			205-99-2	< 0.19
Benzo(k)fluoranthene			207-08-9	< 0.19
Benzo(g,h,i)perylene			191-24-2	< 0.19
Benzo(a)pyrene			50-32-8	< 0.19
Biphenyl (1,1-Biphenyl)			92-52-4	**0.59 J**
Bis(2-chloroethoxy)methane			111-91-1	< 0.95
Bis(2-chloroethyl)ether			111-44-4	< 0.95
2,2-oxybis(1-Chloropropane)			108-60-1	< 0.95
Bis(2-ethylhexyl)phthalate			117-81-7	< 4.8
4-Bromophenyl phenyl ether			101-55-3	< 0.95

Table 2. Laboratory Testing Results - Groundwater
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Zill, LLC
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			Location Name	MW-18
			Sample Name	1600780-DP-1
			Sample Date	8/3/2016
			Parent Sample	1600780-MW-18
Analyte	**Method**	**Units**	**CAS No.**	
Butyl benzyl phthalate			85-68-7	< 0.95
Caprolactam			105-60-2	< 0.95
Carbazole			86-74-8	< 1.9
4-Chloro-3-methylphenol			59-50-7	< 0.95
4-Chloroaniline			106-47-8	< 3.8
2-Chloronaphthalene			91-58-7	< 0.95
2-Chlorophenol			95-57-8	< 0.95
4-Chlorophenyl phenyl ether			7005-72-3	< 0.95
Chrysene			218-01-9	< 0.19
Dibenz(a,h)anthracene			53-70-3	< 0.19
Dibenzofuran			132-64-9	< 0.95
3,3-Dichlorobenzidine			91-94-1	< 19
2,4-Dichlorophenol			120-83-2	< 0.95
Diethyl phthalate			84-66-2	< 0.95
Dimethyl phthalate			131-11-3	< 0.95
2,4-Dimethylphenol			105-67-9	**14 J**
Di-n-butyl phthalate			84-74-2	< 0.95
4,6-Dinitro-2-methylphenol			534-52-1	< 4.8
2,4-Dinitrophenol			51-28-5	< 9.5
2,4-Dinitrotoluene			121-14-2	< 0.95
2,6-Dinitrotoluene			606-20-2	< 0.95
Di-n-octyl phthalate			117-84-0	< 0.95
Fluoranthene			206-44-0	< 0.19
Fluorene			86-73-7	**0.17 J**
Hexachlorobenzene			118-74-1	< 0.95
1,3-Hexachlorobutadiene (C-46)			87-68-3	< 0.95

Table 2. Laboratory Testing Results - Groundwater
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Zill, LLC
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			Location Name	MW-18
			Sample Name	1600780-DP-1
			Sample Date	8/3/2016
			Parent Sample	1600780-MW-18
Analyte	**Method**	**Units**	**CAS No.**	
Hexachlorocyclopentadiene			77-47-4	1.9 R
Hexachloroethane			67-72-1	< 0.95
Indeno(1,2,3-cd)pyrene			193-39-5	< 0.19
Isophorone			78-59-1	< 0.95
2-Methylnaphthalene			91-57-6	**74**
2-Methylphenol (o-Cresol)			95-48-7	1.9 UJ
3,4-Methylphenol (m,p-Cresol)			108394/106445	1.9 UJ
Naphthalene			91-20-3	**120 J**
2-Nitroaniline			88-74-4	< 0.95
3-Nitroaniline			99-09-2	< 4.8
4-Nitroaniline			100-01-6	< 4.8
Nitrobenzene			98-95-3	< 0.95
2-Nitrophenol			88-75-5	< 0.95
4-Nitrophenol			100-02-7	< 7.6
N-Nitrosodiphenylamine (NDFA)			86-30-6	< 0.95
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	< 0.95
Pentachlorophenol			87-86-5	< 4.8
Phenanthrene			85-01-8	**0.3**
Phenol			108-95-2	**44 J**
Pyrene			129-00-0	< 0.19
2,4,5-Trichlorophenol			95-95-4	< 0.95
2,4,6-Trichlorophenol			88-06-2	< 0.95
Semi-Volatile Organic Compounds (SVOCs) - Dissolved	SW 8270D	ug/L		NT
Acenaphthene			83-32-9	
Acenaphthylene			208-96-8	
Acetophenone			98-86-2	

Table 2. Laboratory Testing Results - Groundwater
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			Location Name	MW-18
			Sample Name	1600780-DP-1
			Sample Date	8/3/2016
			Parent Sample	1600780-MW-18
Analyte	**Method**	**Units**	**CAS No.**	
Anthracene			120-12-7	
Atrazine			1912-24-9	
Benzaldehyde			100-52-7	
Benzo(a)anthracene			56-55-3	
Benzo(b)fluoranthene			205-99-2	
Benzo(k)fluoranthene			207-08-9	
Benzo(g,h,i)perylene			191-24-2	
Benzo(a)pyrene			50-32-8	
Biphenyl (1,1-Biphenyl)			92-52-4	
Bis(2-chloroethoxy)methane			111-91-1	
Bis(2-chloroethyl)ether			111-44-4	
2,2-oxybis(1-Chloropropane)			108-60-1	
Bis(2-ethylhexyl)phthalate			117-81-7	
4-Bromophenyl phenyl ether			101-55-3	
Butyl benzyl phthalate			85-68-7	
Caprolactam			105-60-2	
Carbazole			86-74-8	
4-Chloro-3-methylphenol			59-50-7	
4-Chloroaniline			106-47-8	
2-Chloronaphthalene			91-58-7	
2-Chlorophenol			95-57-8	
4-Chlorophenyl phenyl ether			7005-72-3	
Chrysene			218-01-9	
Dibenz(a,h)anthracene			53-70-3	
Dibenzofuran			132-64-9	
3,3-Dichlorobenzidine			91-94-1	

Table 2. Laboratory Testing Results - Groundwater
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Zill, LLC
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			Location Name	MW-18
			Sample Name	1600780-DP-1
			Sample Date	8/3/2016
			Parent Sample	1600780-MW-18
Analyte	**Method**	**Units**	**CAS No.**	
2,4-Dichlorophenol			120-83-2	
Diethyl phthalate			84-66-2	
Dimethyl phthalate			131-11-3	
2,4-Dimethylphenol			105-67-9	
Di-n-butyl phthalate			84-74-2	
4,6-Dinitro-2-methylphenol			534-52-1	
2,4-Dinitrophenol			51-28-5	
2,4-Dinitrotoluene			121-14-2	
2,6-Dinitrotoluene			606-20-2	
Di-n-octyl phthalate			117-84-0	
Fluoranthene			206-44-0	
Fluorene			86-73-7	
Hexachlorobenzene			118-74-1	
1,3-Hexachlorobutadiene (C-46)			87-68-3	
Hexachlorocyclopentadiene			77-47-4	
Hexachloroethane			67-72-1	
Indeno(1,2,3-cd)pyrene			193-39-5	
Isophorone			78-59-1	
2-Methylnaphthalene			91-57-6	
2-Methylphenol (o-Cresol)			95-48-7	
3,4-Methylphenol (m,p-Cresol)			108394/106445	
Naphthalene			91-20-3	
2-Nitroaniline			88-74-4	
3-Nitroaniline			99-09-2	
4-Nitroaniline			100-01-6	
Nitrobenzene			98-95-3	

Table 2. Laboratory Testing Results - Groundwater
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			Location Name	MW-18
			Sample Name	1600780-DP-1
			Sample Date	8/3/2016
			Parent Sample	1600780-MW-18
Analyte	**Method**	**Units**	**CAS No.**	
2-Nitrophenol			88-75-5	
4-Nitrophenol			100-02-7	
N-Nitrosodiphenylamine (NDFA)			86-30-6	
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	
Pentachlorophenol			87-86-5	
Phenanthrene			85-01-8	
Phenol			108-95-2	
Pyrene			129-00-0	
2,4,5-Trichlorophenol			95-95-4	
2,4,6-Trichlorophenol			88-06-2	
Metals - Total	SW 6010C	ug/L		
Antimony			7440-36-0	< 20
Arsenic			7440-38-2	**9.2 J**
Beryllium			7440-41-7	< 4
Cadmium			7440-43-9	< 5
Calcium			7440-70-2	**310000**
Chromium			7440-47-3	< 10
Copper			7440-50-8	< 20
Iron			7439-89-6	**14000 J+**
Lead			7439-92-1	< 10
Magnesium			7439-95-4	**63000**
Manganese			7439-96-5	**3500**
Mercury			7439-97-6	< 0.2
Nickel			7440-02-0	**6.4 J**
Potassium			7440-09-7	**2300**
Selenium			7782-49-2	< 20

Table 2. Laboratory Testing Results - Groundwater
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			Location Name	MW-18
			Sample Name	1600780-DP-1
			Sample Date	8/3/2016
			Parent Sample	1600780-MW-18
Analyte	**Method**	**Units**	**CAS No.**	
Silver			7440-22-4	< 10
Sodium			7440-23-5	**58000**
Thallium			7440-28-0	< 25
Zinc			7440-66-6	< 20
Metals - Dissolved	SW 6010C	ug/L		NT
Antimony			7440-36-0	
Arsenic			7440-38-2	
Beryllium			7440-41-7	
Cadmium			7440-43-9	
Calcium			7440-70-2	
Chromium			7440-47-3	
Copper			7440-50-8	
Iron			7439-89-6	
Lead			7439-92-1	
Magnesium			7439-95-4	
Manganese			7439-96-5	
Mercury			7439-97-6	
Nickel			7440-02-0	
Potassium			7440-09-7	
Selenium			7782-49-2	
Silver			7440-22-4	
Sodium			7440-23-5	
Thallium			7440-28-0	
Zinc			7440-66-6	
Other				
Alkalinity	SM 2320B	mg/L	ALK	**580**

Table 2. Laboratory Testing Results - Groundwater
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			Location Name	MW-18
			Sample Name	1600780-DP-1
			Sample Date	8/3/2016
			Parent Sample	1600780-MW-18
Analyte	**Method**	**Units**	**CAS No.**	
Ammonia	EPA 350.1	mg/L	7664-41-7	< 0.25
Bicarbonate alkalinity as CaCO3	SM 2320B	mg/L	HCO3	**570**
Bromide	EPA 300.0	mg/L	24959-67-9	**0.58**
Chloride	EPA 300.0	mg/L	16887-00-6	**120**
Nitrate as Nitrogen	EPA 300.0	mg/L	14797-55-8	< 0.05
Sulfate	EPA 300.0	mg/L	14808-79-8	**430**
Sulfide	EPA 376.1	mg/L	18496-25-8	**2.2 J**
Total Dissolved Solids	SM 2540C	mg/L	TDS	**1400**
Total Phosphorous	EPA 365.4	mg/L	7723-14-0	**0.097 J**

General Notes:
1. Analytes in blue are not detected in any sample.
2. Bolding indicates a detected result concentration.
3. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
4. mg/L = milligrams/liter.
5. ug/L = micrograms per liter or parts per billion (ppb).
6. CAS No. = Chemical Abstracts Service Number.
7. NT = The sample was not tested for this analyte.

Validation Qualifiers:
J The result is an estimated value.
R The result is rejected.
UJ The results was not detected at or above the reporting limit shown and the reporting limit is estimated.
+/- Result may be biased high/low, respectively.

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-19 1600780-MW-19 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Volatile Organic Compounds (VOCs)	SW 8260B	ug/L		
Acetone			67-64-1	< 100
Benzene			71-43-2	**440**
Bromobenzene			108-86-1	< 10
Bromochloromethane			74-97-5	< 10
Bromodichloromethane			75-27-4	< 10
Bromoform			75-25-2	< 10
Bromomethane			74-83-9	< 50
n-Butylbenzene			104-51-8	< 10
sec-Butylbenzene			135-98-8	< 10
tert-Butylbenzene			98-06-6	< 10
Carbon disulfide			75-15-0	< 20
Carbon tetrachloride			56-23-5	< 10
Chlorobenzene			108-90-7	< 10
Chloroethane			75-00-3	< 50
Chloroform (Trichloromethane)			67-66-3	< 10
Chloromethane			74-87-3	< 10
2-Chlorotoluene (o-Chlorotoluene)			95-49-8	< 10
4-Chlorotoluene (p-Chlorotoluene)			106-43-4	< 10
p-Cymene (4-Isopropyltoluene)			99-87-6	< 10
Dibromochloromethane			124-48-1	< 10
Dibromomethane			74-95-3	< 10
Dichlorodifluoromethane (Freon 12)			75-71-8	< 10
1,1-Dichloroethane			75-34-3	< 10
1,2-Dichloroethane			107-06-2	< 10
1,1-Dichloroethene			75-35-4	< 10

Table 2. Laboratory Testing Results - Groundwater
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Zill, LLC
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			Location Name Sample Name Sample Date Parent Sample	MW-19 1600780-MW-19 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Total 1,2-Dichloroethene			540-59-0	< 20
cis-1,2-Dichloroethene			156-59-2	< 10
trans-1,2-Dichloroethene			156-60-5	< 10
1,2-Dichloropropane			78-87-5	< 10
1,3-Dichloropropane			142-28-9	< 10
2,2-Dichloropropane			594-20-7	< 10
1,1-Dichloropropene			563-58-6	< 10
cis-1,3-Dichloropropene			10061-01-5	< 10
trans-1,3-Dichloropropene			10061-02-6	< 10
Ethylbenzene			100-41-4	**21**
2-Hexanone			591-78-6	< 100
Isopropylbenzene			98-82-8	**16**
Methyl ethyl ketone (2-Butanone)			78-93-3	< 100
Methyl tert-butyl ether (MTBE)			1634-04-4	< 100
4-Methyl-2-pentanone (MIBK)			108-10-1	< 100
Methylene chloride			75-09-2	< 50
n-Propylbenzene			103-65-1	**19**
Styrene			100-42-5	< 10
1,1,1,2-Tetrachloroethane			630-20-6	< 10
1,1,2,2-Tetrachloroethane			79-34-5	< 10
Tetrachloroethene (PCE)			127-18-4	< 10
Toluene			108-88-3	< 10
1,2,3-Trichlorobenzene			87-61-6	< 50
1,1,1-Trichloroethane (TCA)			71-55-6	< 10
1,1,2-Trichloroethane			79-00-5	< 10
Trichloroethene (TCE)			79-01-6	< 10

Table 2. Laboratory Testing Results - Groundwater
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Zill, LLC
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			Location Name Sample Name Sample Date Parent Sample	MW-19 1600780-MW-19 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Trichlorofluoromethane (Freon 11)			75-69-4	< 10
1,2,4-Trimethylbenzene			95-63-6	**9.4 J**
1,3,5-Trimethylbenzene			108-67-8	< 10
Vinyl acetate			108-05-4	< 20
Vinyl chloride			75-01-4	< 10
o-Xylene			95-47-6	**4.9 J**
m/p-Xylene			179601-23-1	**34**
Total Xylene			1330-20-7	**39**
Semi-Volatile Organic Compounds (SVOCs)	SW 8270D	ug/L		
Acenaphthene			83-32-9	< 0.19
Acenaphthylene			208-96-8	< 0.19
Acetophenone			98-86-2	< 0.96
Anthracene			120-12-7	< 0.19
Atrazine			1912-24-9	3.8 UJ
Benzaldehyde			100-52-7	< 0.96
Benzo(a)anthracene			56-55-3	< 0.19
Benzo(b)fluoranthene			205-99-2	< 0.19
Benzo(k)fluoranthene			207-08-9	< 0.19
Benzo(g,h,i)perylene			191-24-2	< 0.19
Benzo(a)pyrene			50-32-8	< 0.19
Biphenyl (1,1-Biphenyl)			92-52-4	< 0.96
Bis(2-chloroethoxy)methane			111-91-1	< 0.96
Bis(2-chloroethyl)ether			111-44-4	< 0.96
2,2-oxybis(1-Chloropropane)			108-60-1	< 0.96
Bis(2-ethylhexyl)phthalate			117-81-7	< 4.8
4-Bromophenyl phenyl ether			101-55-3	< 0.96

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-19 1600780-MW-19 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Butyl benzyl phthalate			85-68-7	< 0.96
Caprolactam			105-60-2	< 0.96
Carbazole			86-74-8	< 1.9
4-Chloro-3-methylphenol			59-50-7	< 0.96
4-Chloroaniline			106-47-8	< 3.8
2-Chloronaphthalene			91-58-7	< 0.96
2-Chlorophenol			95-57-8	< 0.96
4-Chlorophenyl phenyl ether			7005-72-3	< 0.96
Chrysene			218-01-9	< 0.19
Dibenz(a,h)anthracene			53-70-3	< 0.19
Dibenzofuran			132-64-9	< 0.96
3,3-Dichlorobenzidine			91-94-1	19 R
2,4-Dichlorophenol			120-83-2	< 0.96
Diethyl phthalate			84-66-2	< 0.96
Dimethyl phthalate			131-11-3	< 0.96
2,4-Dimethylphenol			105-67-9	**2.3**
Di-n-butyl phthalate			84-74-2	< 0.96
4,6-Dinitro-2-methylphenol			534-52-1	< 4.8
2,4-Dinitrophenol			51-28-5	< 9.6
2,4-Dinitrotoluene			121-14-2	< 0.96
2,6-Dinitrotoluene			606-20-2	< 0.96
Di-n-octyl phthalate			117-84-0	< 0.96
Fluoranthene			206-44-0	< 0.19
Fluorene			86-73-7	< 0.19
Hexachlorobenzene			118-74-1	< 0.96
1,3-Hexachlorobutadiene (C-46)			87-68-3	< 0.96

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Zill, LLC
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			Location Name Sample Name Sample Date Parent Sample	MW-19 1600780-MW-19 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Hexachlorocyclopentadiene			77-47-4	< 1.9
Hexachloroethane			67-72-1	< 0.96
Indeno(1,2,3-cd)pyrene			193-39-5	< 0.19
Isophorone			78-59-1	< 0.96
2-Methylnaphthalene			91-57-6	< 0.19
2-Methylphenol (o-Cresol)			95-48-7	< 1.9
3,4-Methylphenol (m,p-Cresol)			108394/106445	< 1.9
Naphthalene			91-20-3	**7.1**
2-Nitroaniline			88-74-4	< 0.96
3-Nitroaniline			99-09-2	< 4.8
4-Nitroaniline			100-01-6	< 4.8
Nitrobenzene			98-95-3	< 0.96
2-Nitrophenol			88-75-5	< 0.96
4-Nitrophenol			100-02-7	< 7.7
N-Nitrosodiphenylamine (NDFA)			86-30-6	< 0.96
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	< 0.96
Pentachlorophenol			87-86-5	< 4.8
Phenanthrene			85-01-8	< 0.19
Phenol			108-95-2	**33**
Pyrene			129-00-0	< 0.19
2,4,5-Trichlorophenol			95-95-4	< 0.96
2,4,6-Trichlorophenol			88-06-2	< 0.96
Semi-Volatile Organic Compounds (SVOCs) - Dissolved	SW 8270D	ug/L		NT
Acenaphthene			83-32-9	
Acenaphthylene			208-96-8	
Acetophenone			98-86-2	

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-19 1600780-MW-19 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Anthracene			120-12-7	
Atrazine			1912-24-9	
Benzaldehyde			100-52-7	
Benzo(a)anthracene			56-55-3	
Benzo(b)fluoranthene			205-99-2	
Benzo(k)fluoranthene			207-08-9	
Benzo(g,h,i)perylene			191-24-2	
Benzo(a)pyrene			50-32-8	
Biphenyl (1,1-Biphenyl)			92-52-4	
Bis(2-chloroethoxy)methane			111-91-1	
Bis(2-chloroethyl)ether			111-44-4	
2,2-oxybis(1-Chloropropane)			108-60-1	
Bis(2-ethylhexyl)phthalate			117-81-7	
4-Bromophenyl phenyl ether			101-55-3	
Butyl benzyl phthalate			85-68-7	
Caprolactam			105-60-2	
Carbazole			86-74-8	
4-Chloro-3-methylphenol			59-50-7	
4-Chloroaniline			106-47-8	
2-Chloronaphthalene			91-58-7	
2-Chlorophenol			95-57-8	
4-Chlorophenyl phenyl ether			7005-72-3	
Chrysene			218-01-9	
Dibenz(a,h)anthracene			53-70-3	
Dibenzofuran			132-64-9	
3,3-Dichlorobenzidine			91-94-1	

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-19 1600780-MW-19 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
2,4-Dichlorophenol			120-83-2	
Diethyl phthalate			84-66-2	
Dimethyl phthalate			131-11-3	
2,4-Dimethylphenol			105-67-9	
Di-n-butyl phthalate			84-74-2	
4,6-Dinitro-2-methylphenol			534-52-1	
2,4-Dinitrophenol			51-28-5	
2,4-Dinitrotoluene			121-14-2	
2,6-Dinitrotoluene			606-20-2	
Di-n-octyl phthalate			117-84-0	
Fluoranthene			206-44-0	
Fluorene			86-73-7	
Hexachlorobenzene			118-74-1	
1,3-Hexachlorobutadiene (C-46)			87-68-3	
Hexachlorocyclopentadiene			77-47-4	
Hexachloroethane			67-72-1	
Indeno(1,2,3-cd)pyrene			193-39-5	
Isophorone			78-59-1	
2-Methylnaphthalene			91-57-6	
2-Methylphenol (o-Cresol)			95-48-7	
3,4-Methylphenol (m,p-Cresol)			108394/106445	
Naphthalene			91-20-3	
2-Nitroaniline			88-74-4	
3-Nitroaniline			99-09-2	
4-Nitroaniline			100-01-6	
Nitrobenzene			98-95-3	

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-19 1600780-MW-19 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
2-Nitrophenol			88-75-5	
4-Nitrophenol			100-02-7	
N-Nitrosodiphenylamine (NDFA)			86-30-6	
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	
Pentachlorophenol			87-86-5	
Phenanthrene			85-01-8	
Phenol			108-95-2	
Pyrene			129-00-0	
2,4,5-Trichlorophenol			95-95-4	
2,4,6-Trichlorophenol			88-06-2	
Metals - Total	SW 6010C	ug/L		
Antimony			7440-36-0	< 20
Arsenic			7440-38-2	**12 J**
Beryllium			7440-41-7	< 4
Cadmium			7440-43-9	< 5
Calcium			7440-70-2	**170000**
Chromium			7440-47-3	**3.7 J**
Copper			7440-50-8	< 20
Iron			7439-89-6	**2200**
Lead			7439-92-1	< 10
Magnesium			7439-95-4	**17000**
Manganese			7439-96-5	**3400**
Mercury			7439-97-6	< 0.2
Nickel			7440-02-0	**6 J**
Potassium			7440-09-7	**830 J**
Selenium			7782-49-2	< 20

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
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			Location Name Sample Name Sample Date Parent Sample	MW-19 1600780-MW-19 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Silver			7440-22-4	< 10
Sodium			7440-23-5	**110000**
Thallium			7440-28-0	< 25
Zinc			7440-66-6	< 20
Metals - Dissolved	SW 6010C	ug/L		NT
Antimony			7440-36-0	
Arsenic			7440-38-2	
Beryllium			7440-41-7	
Cadmium			7440-43-9	
Calcium			7440-70-2	
Chromium			7440-47-3	
Copper			7440-50-8	
Iron			7439-89-6	
Lead			7439-92-1	
Magnesium			7439-95-4	
Manganese			7439-96-5	
Mercury			7439-97-6	
Nickel			7440-02-0	
Potassium			7440-09-7	
Selenium			7782-49-2	
Silver			7440-22-4	
Sodium			7440-23-5	
Thallium			7440-28-0	
Zinc			7440-66-6	
Other				
Alkalinity	SM 2320B	mg/L	ALK	**600**

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-19 1600780-MW-19 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Ammonia	EPA 350.1	mg/L	7664-41-7	**0.96 J+**
Bicarbonate alkalinity as CaCO3	SM 2320B	mg/L	HCO3	**600**
Bromide	EPA 300.0	mg/L	24959-67-9	**0.35 J**
Chloride	EPA 300.0	mg/L	16887-00-6	**86**
Nitrate as Nitrogen	EPA 300.0	mg/L	14797-55-8	< 0.05
Sulfate	EPA 300.0	mg/L	14808-79-8	**14**
Sulfide	EPA 376.1	mg/L	18496-25-8	< 1
Total Dissolved Solids	SM 2540C	mg/L	TDS	**840**
Total Phosphorous	EPA 365.4	mg/L	7723-14-0	**0.047 J**

General Notes:
1. Analytes in blue are not detected in any sample.
2. Bolding indicates a detected result concentration.
3. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
4. mg/L = milligrams/liter.
5. ug/L = micrograms per liter or parts per billion (ppb).
6. CAS No. = Chemical Abstracts Service Number.
7. NT = The sample was not tested for this analyte.

Validation Qualifiers:
J The result is an estimated value.
R The result is rejected.
UJ The results was not detected at or above the reporting limit shown and the reporting limit is estimated.
+/- Result may be biased high/low, respectively.

Table 2. Laboratory Testing Results - Groundwater
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Zill, LLC
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			Location Name Sample Name Sample Date Parent Sample	MW-20 1600780-MW-20 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Volatile Organic Compounds (VOCs)	SW 8260B	ug/L		
Acetone			67-64-1	
Benzene			71-43-2	
Bromobenzene			108-86-1	
Bromochloromethane			74-97-5	
Bromodichloromethane			75-27-4	
Bromoform			75-25-2	
Bromomethane			74-83-9	
n-Butylbenzene			104-51-8	
sec-Butylbenzene			135-98-8	
tert-Butylbenzene			98-06-6	
Carbon disulfide			75-15-0	
Carbon tetrachloride			56-23-5	
Chlorobenzene			108-90-7	
Chloroethane			75-00-3	
Chloroform (Trichloromethane)			67-66-3	
Chloromethane			74-87-3	
2-Chlorotoluene (o-Chlorotoluene)			95-49-8	
4-Chlorotoluene (p-Chlorotoluene)			106-43-4	
p-Cymene (4-Isopropyltoluene)			99-87-6	
Dibromochloromethane			124-48-1	
Dibromomethane			74-95-3	
Dichlorodifluoromethane (Freon 12)			75-71-8	
1,1-Dichloroethane			75-34-3	
1,2-Dichloroethane			107-06-2	
1,1-Dichloroethene			75-35-4	

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-20 1600780-MW-20 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Total 1,2-Dichloroethene			540-59-0	
cis-1,2-Dichloroethene			156-59-2	
trans-1,2-Dichloroethene			156-60-5	
1,2-Dichloropropane			78-87-5	
1,3-Dichloropropane			142-28-9	
2,2-Dichloropropane			594-20-7	
1,1-Dichloropropene			563-58-6	
cis-1,3-Dichloropropene			10061-01-5	
trans-1,3-Dichloropropene			10061-02-6	
Ethylbenzene			100-41-4	
2-Hexanone			591-78-6	
Isopropylbenzene			98-82-8	
Methyl ethyl ketone (2-Butanone)			78-93-3	
Methyl tert-butyl ether (MTBE)			1634-04-4	
4-Methyl-2-pentanone (MIBK)			108-10-1	
Methylene chloride			75-09-2	
n-Propylbenzene			103-65-1	
Styrene			100-42-5	
1,1,1,2-Tetrachloroethane			630-20-6	
1,1,2,2-Tetrachloroethane			79-34-5	
Tetrachloroethene (PCE)			127-18-4	
Toluene			108-88-3	
1,2,3-Trichlorobenzene			87-61-6	
1,1,1-Trichloroethane (TCA)			71-55-6	
1,1,2-Trichloroethane			79-00-5	
Trichloroethene (TCE)			79-01-6	

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			Location Name Sample Name Sample Date Parent Sample	MW-20 1600780-MW-20 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Trichlorofluoromethane (Freon 11)			75-69-4	
1,2,4-Trimethylbenzene			95-63-6	
1,3,5-Trimethylbenzene			108-67-8	
Vinyl acetate			108-05-4	
Vinyl chloride			75-01-4	
o-Xylene			95-47-6	
m/p-Xylene			179601-23-1	
Total Xylene			1330-20-7	
Semi-Volatile Organic Compounds (SVOCs)	SW 8270D	ug/L		
Acenaphthene			83-32-9	
Acenaphthylene			208-96-8	
Acetophenone			98-86-2	
Anthracene			120-12-7	
Atrazine			1912-24-9	
Benzaldehyde			100-52-7	
Benzo(a)anthracene			56-55-3	
Benzo(b)fluoranthene			205-99-2	
Benzo(k)fluoranthene			207-08-9	
Benzo(g,h,i)perylene			191-24-2	
Benzo(a)pyrene			50-32-8	
Biphenyl (1,1-Biphenyl)			92-52-4	
Bis(2-chloroethoxy)methane			111-91-1	
Bis(2-chloroethyl)ether			111-44-4	
2,2-oxybis(1-Chloropropane)			108-60-1	
Bis(2-ethylhexyl)phthalate			117-81-7	
4-Bromophenyl phenyl ether			101-55-3	

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			Location Name Sample Name Sample Date Parent Sample	MW-20 1600780-MW-20 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Butyl benzyl phthalate			85-68-7	
Caprolactam			105-60-2	
Carbazole			86-74-8	
4-Chloro-3-methylphenol			59-50-7	
4-Chloroaniline			106-47-8	
2-Chloronaphthalene			91-58-7	
2-Chlorophenol			95-57-8	
4-Chlorophenyl phenyl ether			7005-72-3	
Chrysene			218-01-9	
Dibenz(a,h)anthracene			53-70-3	
Dibenzofuran			132-64-9	
3,3-Dichlorobenzidine			91-94-1	
2,4-Dichlorophenol			120-83-2	
Diethyl phthalate			84-66-2	
Dimethyl phthalate			131-11-3	
2,4-Dimethylphenol			105-67-9	
Di-n-butyl phthalate			84-74-2	
4,6-Dinitro-2-methylphenol			534-52-1	
2,4-Dinitrophenol			51-28-5	
2,4-Dinitrotoluene			121-14-2	
2,6-Dinitrotoluene			606-20-2	
Di-n-octyl phthalate			117-84-0	
Fluoranthene			206-44-0	
Fluorene			86-73-7	
Hexachlorobenzene			118-74-1	
1,3-Hexachlorobutadiene (C-46)			87-68-3	

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			Location Name Sample Name Sample Date Parent Sample	MW-20 1600780-MW-20 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Hexachlorocyclopentadiene			77-47-4	
Hexachloroethane			67-72-1	
Indeno(1,2,3-cd)pyrene			193-39-5	
Isophorone			78-59-1	
2-Methylnaphthalene			91-57-6	
2-Methylphenol (o-Cresol)			95-48-7	
3,4-Methylphenol (m,p-Cresol)			108394/106445	
Naphthalene			91-20-3	
2-Nitroaniline			88-74-4	
3-Nitroaniline			99-09-2	
4-Nitroaniline			100-01-6	
Nitrobenzene			98-95-3	
2-Nitrophenol			88-75-5	
4-Nitrophenol			100-02-7	
N-Nitrosodiphenylamine (NDFA)			86-30-6	
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	
Pentachlorophenol			87-86-5	
Phenanthrene			85-01-8	
Phenol			108-95-2	
Pyrene			129-00-0	
2,4,5-Trichlorophenol			95-95-4	
2,4,6-Trichlorophenol			88-06-2	
Semi-Volatile Organic Compounds (SVOCs) - Dissolved	SW 8270D	ug/L		NT
Acenaphthene			83-32-9	
Acenaphthylene			208-96-8	
Acetophenone			98-86-2	

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			Location Name Sample Name Sample Date Parent Sample	MW-20 1600780-MW-20 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Anthracene			120-12-7	
Atrazine			1912-24-9	
Benzaldehyde			100-52-7	
Benzo(a)anthracene			56-55-3	
Benzo(b)fluoranthene			205-99-2	
Benzo(k)fluoranthene			207-08-9	
Benzo(g,h,i)perylene			191-24-2	
Benzo(a)pyrene			50-32-8	
Biphenyl (1,1-Biphenyl)			92-52-4	
Bis(2-chloroethoxy)methane			111-91-1	
Bis(2-chloroethyl)ether			111-44-4	
2,2-oxybis(1-Chloropropane)			108-60-1	
Bis(2-ethylhexyl)phthalate			117-81-7	
4-Bromophenyl phenyl ether			101-55-3	
Butyl benzyl phthalate			85-68-7	
Caprolactam			105-60-2	
Carbazole			86-74-8	
4-Chloro-3-methylphenol			59-50-7	
4-Chloroaniline			106-47-8	
2-Chloronaphthalene			91-58-7	
2-Chlorophenol			95-57-8	
4-Chlorophenyl phenyl ether			7005-72-3	
Chrysene			218-01-9	
Dibenz(a,h)anthracene			53-70-3	
Dibenzofuran			132-64-9	
3,3-Dichlorobenzidine			91-94-1	

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			Location Name Sample Name Sample Date Parent Sample	MW-20 1600780-MW-20 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
2,4-Dichlorophenol			120-83-2	
Diethyl phthalate			84-66-2	
Dimethyl phthalate			131-11-3	
2,4-Dimethylphenol			105-67-9	
Di-n-butyl phthalate			84-74-2	
4,6-Dinitro-2-methylphenol			534-52-1	
2,4-Dinitrophenol			51-28-5	
2,4-Dinitrotoluene			121-14-2	
2,6-Dinitrotoluene			606-20-2	
Di-n-octyl phthalate			117-84-0	
Fluoranthene			206-44-0	
Fluorene			86-73-7	
Hexachlorobenzene			118-74-1	
1,3-Hexachlorobutadiene (C-46)			87-68-3	
Hexachlorocyclopentadiene			77-47-4	
Hexachloroethane			67-72-1	
Indeno(1,2,3-cd)pyrene			193-39-5	
Isophorone			78-59-1	
2-Methylnaphthalene			91-57-6	
2-Methylphenol (o-Cresol)			95-48-7	
3,4-Methylphenol (m,p-Cresol)			108394/106445	
Naphthalene			91-20-3	
2-Nitroaniline			88-74-4	
3-Nitroaniline			99-09-2	
4-Nitroaniline			100-01-6	
Nitrobenzene			98-95-3	

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			Location Name Sample Name Sample Date Parent Sample	MW-20 1600780-MW-20 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
2-Nitrophenol			88-75-5	
4-Nitrophenol			100-02-7	
N-Nitrosodiphenylamine (NDFA)			86-30-6	
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	
Pentachlorophenol			87-86-5	
Phenanthrene			85-01-8	
Phenol			108-95-2	
Pyrene			129-00-0	
2,4,5-Trichlorophenol			95-95-4	
2,4,6-Trichlorophenol			88-06-2	
Metals - Total	SW 6010C	ug/L		
Antimony			7440-36-0	< 20
Arsenic			7440-38-2	**24**
Beryllium			7440-41-7	< 4
Cadmium			7440-43-9	< 5
Calcium			7440-70-2	**200000**
Chromium			7440-47-3	< 10
Copper			7440-50-8	< 20
Iron			7439-89-6	**27000**
Lead			7439-92-1	**7 J**
Magnesium			7439-95-4	**47000**
Manganese			7439-96-5	**3100**
Mercury			7439-97-6	< 0.2
Nickel			7440-02-0	**15 J**
Potassium			7440-09-7	**1400**
Selenium			7782-49-2	< 20

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-20 1600780-MW-20 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Silver			7440-22-4	< 10
Sodium			7440-23-5	**85000**
Thallium			7440-28-0	< 25
Zinc			7440-66-6	**7.3 J**
Metals - Dissolved	SW 6010C	ug/L		NT
Antimony			7440-36-0	
Arsenic			7440-38-2	
Beryllium			7440-41-7	
Cadmium			7440-43-9	
Calcium			7440-70-2	
Chromium			7440-47-3	
Copper			7440-50-8	
Iron			7439-89-6	
Lead			7439-92-1	
Magnesium			7439-95-4	
Manganese			7439-96-5	
Mercury			7439-97-6	
Nickel			7440-02-0	
Potassium			7440-09-7	
Selenium			7782-49-2	
Silver			7440-22-4	
Sodium			7440-23-5	
Thallium			7440-28-0	
Zinc			7440-66-6	
Other				
Alkalinity	SM 2320B	mg/L	ALK	< 5

Table 2. Laboratory Testing Results - Groundwater
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Zill, LLC
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			Location Name Sample Name Sample Date Parent Sample	MW-20 1600780-MW-20 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Ammonia	EPA 350.1	mg/L	7664-41-7	**0.5 J+**
Bicarbonate alkalinity as CaCO3	SM 2320B	mg/L	HCO3	< 5
Bromide	EPA 300.0	mg/L	24959-67-9	**0.43 J**
Chloride	EPA 300.0	mg/L	16887-00-6	**92**
Nitrate as Nitrogen	EPA 300.0	mg/L	14797-55-8	< 0.05
Sulfate	EPA 300.0	mg/L	14808-79-8	< 1
Sulfide	EPA 376.1	mg/L	18496-25-8	< 1
Total Dissolved Solids	SM 2540C	mg/L	TDS	**880**
Total Phosphorous	EPA 365.4	mg/L	7723-14-0	< 0.1

General Notes:
1. Analytes in blue are not detected in any sample.
2. Bolding indicates a detected result concentration.
3. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
4. mg/L = milligrams/liter.
5. ug/L = micrograms per liter or parts per billion (ppb).
6. CAS No. = Chemical Abstracts Service Number.
7. NT = The sample was not tested for this analyte.

Validation Qualifiers:
J The result is an estimated value.
R The result is rejected.
UJ The results was not detected at or above the reporting limit shown and the reporting limit is estimated.
+/- Result may be biased high/low, respectively.

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-21 1600780-MW-21 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Volatile Organic Compounds (VOCs)	SW 8260B	ug/L		
Acetone			67-64-1	< 2000
Benzene			71-43-2	**16000**
Bromobenzene			108-86-1	< 200
Bromochloromethane			74-97-5	< 200
Bromodichloromethane			75-27-4	< 200
Bromoform			75-25-2	< 200
Bromomethane			74-83-9	< 1000
n-Butylbenzene			104-51-8	< 200
sec-Butylbenzene			135-98-8	< 200
tert-Butylbenzene			98-06-6	< 200
Carbon disulfide			75-15-0	< 400
Carbon tetrachloride			56-23-5	< 200
Chlorobenzene			108-90-7	< 200
Chloroethane			75-00-3	< 1000
Chloroform (Trichloromethane)			67-66-3	< 200
Chloromethane			74-87-3	< 200
2-Chlorotoluene (o-Chlorotoluene)			95-49-8	< 200
4-Chlorotoluene (p-Chlorotoluene)			106-43-4	< 200
p-Cymene (4-Isopropyltoluene)			99-87-6	< 200
Dibromochloromethane			124-48-1	< 200
Dibromomethane			74-95-3	< 200
Dichlorodifluoromethane (Freon 12)			75-71-8	< 200
1,1-Dichloroethane			75-34-3	< 200
1,2-Dichloroethane			107-06-2	< 200
1,1-Dichloroethene			75-35-4	< 200

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-21 1600780-MW-21 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Total 1,2-Dichloroethene			540-59-0	< 400
cis-1,2-Dichloroethene			156-59-2	< 200
trans-1,2-Dichloroethene			156-60-5	< 200
1,2-Dichloropropane			78-87-5	< 200
1,3-Dichloropropane			142-28-9	< 200
2,2-Dichloropropane			594-20-7	< 200
1,1-Dichloropropene			563-58-6	< 200
cis-1,3-Dichloropropene			10061-01-5	< 200
trans-1,3-Dichloropropene			10061-02-6	< 200
Ethylbenzene			100-41-4	**3100**
2-Hexanone			591-78-6	< 2000
Isopropylbenzene			98-82-8	< 200
Methyl ethyl ketone (2-Butanone)			78-93-3	< 2000
Methyl tert-butyl ether (MTBE)			1634-04-4	< 2000
4-Methyl-2-pentanone (MIBK)			108-10-1	< 2000
Methylene chloride			75-09-2	< 1000
n-Propylbenzene			103-65-1	**200**
Styrene			100-42-5	< 200
1,1,1,2-Tetrachloroethane			630-20-6	< 200
1,1,2,2-Tetrachloroethane			79-34-5	< 200
Tetrachloroethene (PCE)			127-18-4	< 200
Toluene			108-88-3	**35000**
1,2,3-Trichlorobenzene			87-61-6	< 1000
1,1,1-Trichloroethane (TCA)			71-55-6	< 200
1,1,2-Trichloroethane			79-00-5	< 200
Trichloroethene (TCE)			79-01-6	< 200

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-21 1600780-MW-21 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Trichlorofluoromethane (Freon 11)			75-69-4	< 200
1,2,4-Trimethylbenzene			95-63-6	**1300**
1,3,5-Trimethylbenzene			108-67-8	**350**
Vinyl acetate			108-05-4	< 400
Vinyl chloride			75-01-4	< 200
o-Xylene			95-47-6	**3900**
m/p-Xylene			179601-23-1	**9000**
Total Xylene			1330-20-7	**13000**
Semi-Volatile Organic Compounds (SVOCs)	SW 8270D	ug/L		
Acenaphthene			83-32-9	< 1.9
Acenaphthylene			208-96-8	< 1.9
Acetophenone			98-86-2	**36**
Anthracene			120-12-7	< 1.9
Atrazine			1912-24-9	38 UJ
Benzaldehyde			100-52-7	< 9.6
Benzo(a)anthracene			56-55-3	< 1.9
Benzo(b)fluoranthene			205-99-2	< 1.9
Benzo(k)fluoranthene			207-08-9	< 1.9
Benzo(g,h,i)perylene			191-24-2	< 1.9
Benzo(a)pyrene			50-32-8	< 1.9
Biphenyl (1,1-Biphenyl)			92-52-4	< 9.6
Bis(2-chloroethoxy)methane			111-91-1	< 9.6
Bis(2-chloroethyl)ether			111-44-4	< 9.6
2,2-oxybis(1-Chloropropane)			108-60-1	< 9.6
Bis(2-ethylhexyl)phthalate			117-81-7	< 48
4-Bromophenyl phenyl ether			101-55-3	< 9.6

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-21 1600780-MW-21 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Butyl benzyl phthalate			85-68-7	< 9.6
Caprolactam			105-60-2	< 9.6
Carbazole			86-74-8	< 19
4-Chloro-3-methylphenol			59-50-7	< 9.6
4-Chloroaniline			106-47-8	< 38
2-Chloronaphthalene			91-58-7	< 9.6
2-Chlorophenol			95-57-8	< 9.6
4-Chlorophenyl phenyl ether			7005-72-3	< 9.6
Chrysene			218-01-9	< 1.9
Dibenz(a,h)anthracene			53-70-3	< 1.9
Dibenzofuran			132-64-9	< 9.6
3,3-Dichlorobenzidine			91-94-1	190 R
2,4-Dichlorophenol			120-83-2	< 9.6
Diethyl phthalate			84-66-2	< 9.6
Dimethyl phthalate			131-11-3	< 9.6
2,4-Dimethylphenol			105-67-9	**160**
Di-n-butyl phthalate			84-74-2	< 9.6
4,6-Dinitro-2-methylphenol			534-52-1	< 48
2,4-Dinitrophenol			51-28-5	< 96
2,4-Dinitrotoluene			121-14-2	< 9.6
2,6-Dinitrotoluene			606-20-2	< 9.6
Di-n-octyl phthalate			117-84-0	< 9.6
Fluoranthene			206-44-0	< 1.9
Fluorene			86-73-7	< 1.9
Hexachlorobenzene			118-74-1	< 9.6
1,3-Hexachlorobutadiene (C-46)			87-68-3	< 9.6

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-21 1600780-MW-21 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Hexachlorocyclopentadiene			77-47-4	< 19
Hexachloroethane			67-72-1	< 9.6
Indeno(1,2,3-cd)pyrene			193-39-5	< 1.9
Isophorone			78-59-1	< 9.6
2-Methylnaphthalene			91-57-6	**41**
2-Methylphenol (o-Cresol)			95-48-7	**280**
3,4-Methylphenol (m,p-Cresol)			108394/106445	**720**
Naphthalene			91-20-3	< 1.9
2-Nitroaniline			88-74-4	< 9.6
3-Nitroaniline			99-09-2	< 48
4-Nitroaniline			100-01-6	< 48
Nitrobenzene			98-95-3	< 9.6
2-Nitrophenol			88-75-5	< 9.6
4-Nitrophenol			100-02-7	< 76
N-Nitrosodiphenylamine (NDFA)			86-30-6	< 9.6
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	< 9.6
Pentachlorophenol			87-86-5	< 48
Phenanthrene			85-01-8	< 1.9
Phenol			108-95-2	**150**
Pyrene			129-00-0	< 1.9
2,4,5-Trichlorophenol			95-95-4	< 9.6
2,4,6-Trichlorophenol			88-06-2	< 9.6
Semi-Volatile Organic Compounds (SVOCs) - Dissolved	SW 8270D	ug/L		NT
Acenaphthene			83-32-9	
Acenaphthylene			208-96-8	
Acetophenone			98-86-2	

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-21 1600780-MW-21 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Anthracene			120-12-7	
Atrazine			1912-24-9	
Benzaldehyde			100-52-7	
Benzo(a)anthracene			56-55-3	
Benzo(b)fluoranthene			205-99-2	
Benzo(k)fluoranthene			207-08-9	
Benzo(g,h,i)perylene			191-24-2	
Benzo(a)pyrene			50-32-8	
Biphenyl (1,1-Biphenyl)			92-52-4	
Bis(2-chloroethoxy)methane			111-91-1	
Bis(2-chloroethyl)ether			111-44-4	
2,2-oxybis(1-Chloropropane)			108-60-1	
Bis(2-ethylhexyl)phthalate			117-81-7	
4-Bromophenyl phenyl ether			101-55-3	
Butyl benzyl phthalate			85-68-7	
Caprolactam			105-60-2	
Carbazole			86-74-8	
4-Chloro-3-methylphenol			59-50-7	
4-Chloroaniline			106-47-8	
2-Chloronaphthalene			91-58-7	
2-Chlorophenol			95-57-8	
4-Chlorophenyl phenyl ether			7005-72-3	
Chrysene			218-01-9	
Dibenz(a,h)anthracene			53-70-3	
Dibenzofuran			132-64-9	
3,3-Dichlorobenzidine			91-94-1	

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-21 1600780-MW-21 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
2,4-Dichlorophenol			120-83-2	
Diethyl phthalate			84-66-2	
Dimethyl phthalate			131-11-3	
2,4-Dimethylphenol			105-67-9	
Di-n-butyl phthalate			84-74-2	
4,6-Dinitro-2-methylphenol			534-52-1	
2,4-Dinitrophenol			51-28-5	
2,4-Dinitrotoluene			121-14-2	
2,6-Dinitrotoluene			606-20-2	
Di-n-octyl phthalate			117-84-0	
Fluoranthene			206-44-0	
Fluorene			86-73-7	
Hexachlorobenzene			118-74-1	
1,3-Hexachlorobutadiene (C-46)			87-68-3	
Hexachlorocyclopentadiene			77-47-4	
Hexachloroethane			67-72-1	
Indeno(1,2,3-cd)pyrene			193-39-5	
Isophorone			78-59-1	
2-Methylnaphthalene			91-57-6	
2-Methylphenol (o-Cresol)			95-48-7	
3,4-Methylphenol (m,p-Cresol)			108394/106445	
Naphthalene			91-20-3	
2-Nitroaniline			88-74-4	
3-Nitroaniline			99-09-2	
4-Nitroaniline			100-01-6	
Nitrobenzene			98-95-3	

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-21 1600780-MW-21 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
2-Nitrophenol			88-75-5	
4-Nitrophenol			100-02-7	
N-Nitrosodiphenylamine (NDFA)			86-30-6	
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	
Pentachlorophenol			87-86-5	
Phenanthrene			85-01-8	
Phenol			108-95-2	
Pyrene			129-00-0	
2,4,5-Trichlorophenol			95-95-4	
2,4,6-Trichlorophenol			88-06-2	
Metals - Total	SW 6010C	ug/L		
Antimony			7440-36-0	< 20
Arsenic			7440-38-2	**30**
Beryllium			7440-41-7	< 4
Cadmium			7440-43-9	< 5
Calcium			7440-70-2	**250000**
Chromium			7440-47-3	< 10
Copper			7440-50-8	< 20
Iron			7439-89-6	**44000**
Lead			7439-92-1	< 10
Magnesium			7439-95-4	**41000**
Manganese			7439-96-5	**1400**
Mercury			7439-97-6	< 0.2
Nickel			7440-02-0	**5.2 J**
Potassium			7440-09-7	**1100**
Selenium			7782-49-2	< 20

Table 2. Laboratory Testing Results - Groundwater
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Zill, LLC
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			Location Name Sample Name Sample Date Parent Sample	MW-21 1600780-MW-21 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Silver			7440-22-4	< 10
Sodium			7440-23-5	**62000**
Thallium			7440-28-0	< 25
Zinc			7440-66-6	< 20
Metals - Dissolved	SW 6010C	ug/L		NT
Antimony			7440-36-0	
Arsenic			7440-38-2	
Beryllium			7440-41-7	
Cadmium			7440-43-9	
Calcium			7440-70-2	
Chromium			7440-47-3	
Copper			7440-50-8	
Iron			7439-89-6	
Lead			7439-92-1	
Magnesium			7439-95-4	
Manganese			7439-96-5	
Mercury			7439-97-6	
Nickel			7440-02-0	
Potassium			7440-09-7	
Selenium			7782-49-2	
Silver			7440-22-4	
Sodium			7440-23-5	
Thallium			7440-28-0	
Zinc			7440-66-6	
Other				
Alkalinity	SM 2320B	mg/L	ALK	**630**

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-21 1600780-MW-21 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Ammonia	EPA 350.1	mg/L	7664-41-7	< 0.25
Bicarbonate alkalinity as CaCO3	SM 2320B	mg/L	HCO3	**630**
Bromide	EPA 300.0	mg/L	24959-67-9	**0.29 J**
Chloride	EPA 300.0	mg/L	16887-00-6	**99**
Nitrate as Nitrogen	EPA 300.0	mg/L	14797-55-8	< 0.05
Sulfate	EPA 300.0	mg/L	14808-79-8	**36**
Sulfide	EPA 376.1	mg/L	18496-25-8	**2.1**
Total Dissolved Solids	SM 2540C	mg/L	TDS	**1100**
Total Phosphorous	EPA 365.4	mg/L	7723-14-0	**0.14**

General Notes:
1. Analytes in blue are not detected in any sample.
2. Bolding indicates a detected result concentration.
3. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
4. mg/L = milligrams/liter.
5. ug/L = micrograms per liter or parts per billion (ppb).
6. CAS No. = Chemical Abstracts Service Number.
7. NT = The sample was not tested for this analyte.

Validation Qualifiers:
J The result is an estimated value.
R The result is rejected.
UJ The results was not detected at or above the reporting limit shown and the reporting limit is estimated.
+/- Result may be biased high/low, respectively.

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-22 1600780-MW-22 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Volatile Organic Compounds (VOCs)	SW 8260B	ug/L		
Acetone			67-64-1	
Benzene			71-43-2	
Bromobenzene			108-86-1	
Bromochloromethane			74-97-5	
Bromodichloromethane			75-27-4	
Bromoform			75-25-2	
Bromomethane			74-83-9	
n-Butylbenzene			104-51-8	
sec-Butylbenzene			135-98-8	
tert-Butylbenzene			98-06-6	
Carbon disulfide			75-15-0	
Carbon tetrachloride			56-23-5	
Chlorobenzene			108-90-7	
Chloroethane			75-00-3	
Chloroform (Trichloromethane)			67-66-3	
Chloromethane			74-87-3	
2-Chlorotoluene (o-Chlorotoluene)			95-49-8	
4-Chlorotoluene (p-Chlorotoluene)			106-43-4	
p-Cymene (4-Isopropyltoluene)			99-87-6	
Dibromochloromethane			124-48-1	
Dibromomethane			74-95-3	
Dichlorodifluoromethane (Freon 12)			75-71-8	
1,1-Dichloroethane			75-34-3	
1,2-Dichloroethane			107-06-2	
1,1-Dichloroethene			75-35-4	

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-22 1600780-MW-22 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Total 1,2-Dichloroethene			540-59-0	
cis-1,2-Dichloroethene			156-59-2	
trans-1,2-Dichloroethene			156-60-5	
1,2-Dichloropropane			78-87-5	
1,3-Dichloropropane			142-28-9	
2,2-Dichloropropane			594-20-7	
1,1-Dichloropropene			563-58-6	
cis-1,3-Dichloropropene			10061-01-5	
trans-1,3-Dichloropropene			10061-02-6	
Ethylbenzene			100-41-4	
2-Hexanone			591-78-6	
Isopropylbenzene			98-82-8	
Methyl ethyl ketone (2-Butanone)			78-93-3	
Methyl tert-butyl ether (MTBE)			1634-04-4	
4-Methyl-2-pentanone (MIBK)			108-10-1	
Methylene chloride			75-09-2	
n-Propylbenzene			103-65-1	
Styrene			100-42-5	
1,1,1,2-Tetrachloroethane			630-20-6	
1,1,2,2-Tetrachloroethane			79-34-5	
Tetrachloroethene (PCE)			127-18-4	
Toluene			108-88-3	
1,2,3-Trichlorobenzene			87-61-6	
1,1,1-Trichloroethane (TCA)			71-55-6	
1,1,2-Trichloroethane			79-00-5	
Trichloroethene (TCE)			79-01-6	

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-22 1600780-MW-22 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Trichlorofluoromethane (Freon 11)			75-69-4	
1,2,4-Trimethylbenzene			95-63-6	
1,3,5-Trimethylbenzene			108-67-8	
Vinyl acetate			108-05-4	
Vinyl chloride			75-01-4	
o-Xylene			95-47-6	
m/p-Xylene			179601-23-1	
Total Xylene			1330-20-7	
Semi-Volatile Organic Compounds (SVOCs)	SW 8270D	ug/L		
Acenaphthene			83-32-9	
Acenaphthylene			208-96-8	
Acetophenone			98-86-2	
Anthracene			120-12-7	
Atrazine			1912-24-9	
Benzaldehyde			100-52-7	
Benzo(a)anthracene			56-55-3	
Benzo(b)fluoranthene			205-99-2	
Benzo(k)fluoranthene			207-08-9	
Benzo(g,h,i)perylene			191-24-2	
Benzo(a)pyrene			50-32-8	
Biphenyl (1,1-Biphenyl)			92-52-4	
Bis(2-chloroethoxy)methane			111-91-1	
Bis(2-chloroethyl)ether			111-44-4	
2,2-oxybis(1-Chloropropane)			108-60-1	
Bis(2-ethylhexyl)phthalate			117-81-7	
4-Bromophenyl phenyl ether			101-55-3	

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-22 1600780-MW-22 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Butyl benzyl phthalate			85-68-7	
Caprolactam			105-60-2	
Carbazole			86-74-8	
4-Chloro-3-methylphenol			59-50-7	
4-Chloroaniline			106-47-8	
2-Chloronaphthalene			91-58-7	
2-Chlorophenol			95-57-8	
4-Chlorophenyl phenyl ether			7005-72-3	
Chrysene			218-01-9	
Dibenz(a,h)anthracene			53-70-3	
Dibenzofuran			132-64-9	
3,3-Dichlorobenzidine			91-94-1	
2,4-Dichlorophenol			120-83-2	
Diethyl phthalate			84-66-2	
Dimethyl phthalate			131-11-3	
2,4-Dimethylphenol			105-67-9	
Di-n-butyl phthalate			84-74-2	
4,6-Dinitro-2-methylphenol			534-52-1	
2,4-Dinitrophenol			51-28-5	
2,4-Dinitrotoluene			121-14-2	
2,6-Dinitrotoluene			606-20-2	
Di-n-octyl phthalate			117-84-0	
Fluoranthene			206-44-0	
Fluorene			86-73-7	
Hexachlorobenzene			118-74-1	
1,3-Hexachlorobutadiene (C-46)			87-68-3	

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-22 1600780-MW-22 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Hexachlorocyclopentadiene			77-47-4	
Hexachloroethane			67-72-1	
Indeno(1,2,3-cd)pyrene			193-39-5	
Isophorone			78-59-1	
2-Methylnaphthalene			91-57-6	
2-Methylphenol (o-Cresol)			95-48-7	
3,4-Methylphenol (m,p-Cresol)			108394/106445	
Naphthalene			91-20-3	
2-Nitroaniline			88-74-4	
3-Nitroaniline			99-09-2	
4-Nitroaniline			100-01-6	
Nitrobenzene			98-95-3	
2-Nitrophenol			88-75-5	
4-Nitrophenol			100-02-7	
N-Nitrosodiphenylamine (NDFA)			86-30-6	
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	
Pentachlorophenol			87-86-5	
Phenanthrene			85-01-8	
Phenol			108-95-2	
Pyrene			129-00-0	
2,4,5-Trichlorophenol			95-95-4	
2,4,6-Trichlorophenol			88-06-2	
Semi-Volatile Organic Compounds (SVOCs) - Dissolved	SW 8270D	ug/L		NT
Acenaphthene			83-32-9	
Acenaphthylene			208-96-8	
Acetophenone			98-86-2	

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
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			Location Name	MW-22
			Sample Name	1600780-MW-22
			Sample Date	8/5/2016
			Parent Sample	
Analyte	**Method**	**Units**	**CAS No.**	
Anthracene			120-12-7	
Atrazine			1912-24-9	
Benzaldehyde			100-52-7	
Benzo(a)anthracene			56-55-3	
Benzo(b)fluoranthene			205-99-2	
Benzo(k)fluoranthene			207-08-9	
Benzo(g,h,i)perylene			191-24-2	
Benzo(a)pyrene			50-32-8	
Biphenyl (1,1-Biphenyl)			92-52-4	
Bis(2-chloroethoxy)methane			111-91-1	
Bis(2-chloroethyl)ether			111-44-4	
2,2-oxybis(1-Chloropropane)			108-60-1	
Bis(2-ethylhexyl)phthalate			117-81-7	
4-Bromophenyl phenyl ether			101-55-3	
Butyl benzyl phthalate			85-68-7	
Caprolactam			105-60-2	
Carbazole			86-74-8	
4-Chloro-3-methylphenol			59-50-7	
4-Chloroaniline			106-47-8	
2-Chloronaphthalene			91-58-7	
2-Chlorophenol			95-57-8	
4-Chlorophenyl phenyl ether			7005-72-3	
Chrysene			218-01-9	
Dibenz(a,h)anthracene			53-70-3	
Dibenzofuran			132-64-9	
3,3-Dichlorobenzidine			91-94-1	

Table 2. Laboratory Testing Results - Groundwater
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			Location Name	MW-22
			Sample Name	1600780-MW-22
			Sample Date	8/5/2016
			Parent Sample	
Analyte	**Method**	**Units**	**CAS No.**	
2,4-Dichlorophenol			120-83-2	
Diethyl phthalate			84-66-2	
Dimethyl phthalate			131-11-3	
2,4-Dimethylphenol			105-67-9	
Di-n-butyl phthalate			84-74-2	
4,6-Dinitro-2-methylphenol			534-52-1	
2,4-Dinitrophenol			51-28-5	
2,4-Dinitrotoluene			121-14-2	
2,6-Dinitrotoluene			606-20-2	
Di-n-octyl phthalate			117-84-0	
Fluoranthene			206-44-0	
Fluorene			86-73-7	
Hexachlorobenzene			118-74-1	
1,3-Hexachlorobutadiene (C-46)			87-68-3	
Hexachlorocyclopentadiene			77-47-4	
Hexachloroethane			67-72-1	
Indeno(1,2,3-cd)pyrene			193-39-5	
Isophorone			78-59-1	
2-Methylnaphthalene			91-57-6	
2-Methylphenol (o-Cresol)			95-48-7	
3,4-Methylphenol (m,p-Cresol)			108394/106445	
Naphthalene			91-20-3	
2-Nitroaniline			88-74-4	
3-Nitroaniline			99-09-2	
4-Nitroaniline			100-01-6	
Nitrobenzene			98-95-3	

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
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			Location Name Sample Name Sample Date Parent Sample	MW-22 1600780-MW-22 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
2-Nitrophenol			88-75-5	
4-Nitrophenol			100-02-7	
N-Nitrosodiphenylamine (NDFA)			86-30-6	
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	
Pentachlorophenol			87-86-5	
Phenanthrene			85-01-8	
Phenol			108-95-2	
Pyrene			129-00-0	
2,4,5-Trichlorophenol			95-95-4	
2,4,6-Trichlorophenol			88-06-2	
Metals - Total	SW 6010C	ug/L		
Antimony			7440-36-0	< 20
Arsenic			7440-38-2	**13 J**
Beryllium			7440-41-7	< 4
Cadmium			7440-43-9	< 5
Calcium			7440-70-2	**170000**
Chromium			7440-47-3	< 10
Copper			7440-50-8	< 20
Iron			7439-89-6	**5600**
Lead			7439-92-1	**4.2 J**
Magnesium			7439-95-4	**61000**
Manganese			7439-96-5	**1100**
Mercury			7439-97-6	< 0.2
Nickel			7440-02-0	11 J
Potassium			7440-09-7	**1200**
Selenium			7782-49-2	< 20

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-22 1600780-MW-22 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Silver			7440-22-4	< 10
Sodium			7440-23-5	**110000**
Thallium			7440-28-0	< 25
Zinc			7440-66-6	**17 J**
Metals - Dissolved	SW 6010C	ug/L		NT
Antimony			7440-36-0	
Arsenic			7440-38-2	
Beryllium			7440-41-7	
Cadmium			7440-43-9	
Calcium			7440-70-2	
Chromium			7440-47-3	
Copper			7440-50-8	
Iron			7439-89-6	
Lead			7439-92-1	
Magnesium			7439-95-4	
Manganese			7439-96-5	
Mercury			7439-97-6	
Nickel			7440-02-0	
Potassium			7440-09-7	
Selenium			7782-49-2	
Silver			7440-22-4	
Sodium			7440-23-5	
Thallium			7440-28-0	
Zinc			7440-66-6	
Other				
Alkalinity	SM 2320B	mg/L	ALK	**600**

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-22 1600780-MW-22 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Ammonia	EPA 350.1	mg/L	7664-41-7	< 0.25
Bicarbonate alkalinity as CaCO3	SM 2320B	mg/L	HCO3	**600**
Bromide	EPA 300.0	mg/L	24959-67-9	**0.53**
Chloride	EPA 300.0	mg/L	16887-00-6	**190**
Nitrate as Nitrogen	EPA 300.0	mg/L	14797-55-8	< 0.05
Sulfate	EPA 300.0	mg/L	14808-79-8	**0.54 J**
Sulfide	EPA 376.1	mg/L	18496-25-8	**2**
Total Dissolved Solids	SM 2540C	mg/L	TDS	**980**
Total Phosphorous	EPA 365.4	mg/L	7723-14-0	**0.079 J**

General Notes:
1. Analytes in blue are not detected in any sample.
2. Bolding indicates a detected result concentration.
3. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
4. mg/L = milligrams/liter.
5. ug/L = micrograms per liter or parts per billion (ppb).
6. CAS No. = Chemical Abstracts Service Number.
7. NT = The sample was not tested for this analyte.

Validation Qualifiers:
J The result is an estimated value.
R The result is rejected.
UJ The results was not detected at or above the reporting limit shown and the reporting limit is estimated.
+/- Result may be biased high/low, respectively.

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-23 1600780-MW-23 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Volatile Organic Compounds (VOCs)	SW 8260B	ug/L		
Acetone			67-64-1	< 1000
Benzene			71-43-2	**16000**
Bromobenzene			108-86-1	< 100
Bromochloromethane			74-97-5	< 100
Bromodichloromethane			75-27-4	< 100
Bromoform			75-25-2	< 100
Bromomethane			74-83-9	< 500
n-Butylbenzene			104-51-8	< 100
sec-Butylbenzene			135-98-8	< 100
tert-Butylbenzene			98-06-6	< 100
Carbon disulfide			75-15-0	< 200
Carbon tetrachloride			56-23-5	< 100
Chlorobenzene			108-90-7	< 100
Chloroethane			75-00-3	< 500
Chloroform (Trichloromethane)			67-66-3	< 100
Chloromethane			74-87-3	< 100
2-Chlorotoluene (o-Chlorotoluene)			95-49-8	< 100
4-Chlorotoluene (p-Chlorotoluene)			106-43-4	< 100
p-Cymene (4-Isopropyltoluene)			99-87-6	< 100
Dibromochloromethane			124-48-1	< 100
Dibromomethane			74-95-3	< 100
Dichlorodifluoromethane (Freon 12)			75-71-8	< 100
1,1-Dichloroethane			75-34-3	< 100
1,2-Dichloroethane			107-06-2	< 100
1,1-Dichloroethene			75-35-4	< 100

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
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			Location Name Sample Name Sample Date Parent Sample	MW-23 1600780-MW-23 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Total 1,2-Dichloroethene			540-59-0	< 200
cis-1,2-Dichloroethene			156-59-2	< 100
trans-1,2-Dichloroethene			156-60-5	< 100
1,2-Dichloropropane			78-87-5	< 100
1,3-Dichloropropane			142-28-9	< 100
2,2-Dichloropropane			594-20-7	< 100
1,1-Dichloropropene			563-58-6	< 100
cis-1,3-Dichloropropene			10061-01-5	< 100
trans-1,3-Dichloropropene			10061-02-6	< 100
Ethylbenzene			100-41-4	**4500**
2-Hexanone			591-78-6	< 1000
Isopropylbenzene			98-82-8	**120**
Methyl ethyl ketone (2-Butanone)			78-93-3	< 1000
Methyl tert-butyl ether (MTBE)			1634-04-4	< 1000
4-Methyl-2-pentanone (MIBK)			108-10-1	< 1000
Methylene chloride			75-09-2	< 500
n-Propylbenzene			103-65-1	**360**
Styrene			100-42-5	< 100
1,1,1,2-Tetrachloroethane			630-20-6	< 100
1,1,2,2-Tetrachloroethane			79-34-5	< 100
Tetrachloroethene (PCE)			127-18-4	< 100
Toluene			108-88-3	**29000**
1,2,3-Trichlorobenzene			87-61-6	< 500
1,1,1-Trichloroethane (TCA)			71-55-6	< 100
1,1,2-Trichloroethane			79-00-5	< 100
Trichloroethene (TCE)			79-01-6	< 100

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-23 1600780-MW-23 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Trichlorofluoromethane (Freon 11)			75-69-4	< 100
1,2,4-Trimethylbenzene			95-63-6	**2400**
1,3,5-Trimethylbenzene			108-67-8	**630**
Vinyl acetate			108-05-4	< 200
Vinyl chloride			75-01-4	< 100
o-Xylene			95-47-6	**5300**
m/p-Xylene			179601-23-1	**13000**
Total Xylene			1330-20-7	**18000**
Semi-Volatile Organic Compounds (SVOCs)	SW 8270D	ug/L		
Acenaphthene			83-32-9	< 1.9
Acenaphthylene			208-96-8	< 1.9
Acetophenone			98-86-2	< 9.6
Anthracene			120-12-7	< 1.9
Atrazine			1912-24-9	< 38
Benzaldehyde			100-52-7	< 9.6
Benzo(a)anthracene			56-55-3	< 1.9
Benzo(b)fluoranthene			205-99-2	< 1.9
Benzo(k)fluoranthene			207-08-9	< 1.9
Benzo(g,h,i)perylene			191-24-2	< 1.9
Benzo(a)pyrene			50-32-8	< 1.9
Biphenyl (1,1-Biphenyl)			92-52-4	< 9.6
Bis(2-chloroethoxy)methane			111-91-1	< 9.6
Bis(2-chloroethyl)ether			111-44-4	< 9.6
2,2-oxybis(1-Chloropropane)			108-60-1	< 9.6
Bis(2-ethylhexyl)phthalate			117-81-7	< 48
4-Bromophenyl phenyl ether			101-55-3	< 9.6

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-23 1600780-MW-23 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Butyl benzyl phthalate			85-68-7	< 9.6
Caprolactam			105-60-2	< 9.6
Carbazole			86-74-8	< 19
4-Chloro-3-methylphenol			59-50-7	< 9.6
4-Chloroaniline			106-47-8	< 38
2-Chloronaphthalene			91-58-7	< 9.6
2-Chlorophenol			95-57-8	< 9.6
4-Chlorophenyl phenyl ether			7005-72-3	< 9.6
Chrysene			218-01-9	< 1.9
Dibenz(a,h)anthracene			53-70-3	< 1.9
Dibenzofuran			132-64-9	< 9.6
3,3-Dichlorobenzidine			91-94-1	< 190
2,4-Dichlorophenol			120-83-2	< 9.6
Diethyl phthalate			84-66-2	< 9.6
Dimethyl phthalate			131-11-3	< 9.6
2,4-Dimethylphenol			105-67-9	**160**
Di-n-butyl phthalate			84-74-2	< 9.6
4,6-Dinitro-2-methylphenol			534-52-1	< 48
2,4-Dinitrophenol			51-28-5	< 96
2,4-Dinitrotoluene			121-14-2	< 9.6
2,6-Dinitrotoluene			606-20-2	< 9.6
Di-n-octyl phthalate			117-84-0	< 9.6
Fluoranthene			206-44-0	< 1.9
Fluorene			86-73-7	< 1.9
Hexachlorobenzene			118-74-1	< 9.6
1,3-Hexachlorobutadiene (C-46)			87-68-3	< 9.6

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-23 1600780-MW-23 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Hexachlorocyclopentadiene			77-47-4	19 R
Hexachloroethane			67-72-1	< 9.6
Indeno(1,2,3-cd)pyrene			193-39-5	< 1.9
Isophorone			78-59-1	< 9.6
2-Methylnaphthalene			91-57-6	**65**
2-Methylphenol (o-Cresol)			95-48-7	**150**
3,4-Methylphenol (m,p-Cresol)			108394/106445	**340**
Naphthalene			91-20-3	**260**
2-Nitroaniline			88-74-4	< 9.6
3-Nitroaniline			99-09-2	< 48
4-Nitroaniline			100-01-6	< 48
Nitrobenzene			98-95-3	< 9.6
2-Nitrophenol			88-75-5	< 9.6
4-Nitrophenol			100-02-7	< 77
N-Nitrosodiphenylamine (NDFA)			86-30-6	< 9.6
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	< 9.6
Pentachlorophenol			87-86-5	< 48
Phenanthrene			85-01-8	< 1.9
Phenol			108-95-2	**100**
Pyrene			129-00-0	< 1.9
2,4,5-Trichlorophenol			95-95-4	< 9.6
2,4,6-Trichlorophenol			88-06-2	< 9.6
Semi-Volatile Organic Compounds (SVOCs) - Dissolved	SW 8270D	ug/L		NT
Acenaphthene			83-32-9	
Acenaphthylene			208-96-8	
Acetophenone			98-86-2	

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			Location Name Sample Name Sample Date Parent Sample	MW-23 1600780-MW-23 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Anthracene			120-12-7	
Atrazine			1912-24-9	
Benzaldehyde			100-52-7	
Benzo(a)anthracene			56-55-3	
Benzo(b)fluoranthene			205-99-2	
Benzo(k)fluoranthene			207-08-9	
Benzo(g,h,i)perylene			191-24-2	
Benzo(a)pyrene			50-32-8	
Biphenyl (1,1-Biphenyl)			92-52-4	
Bis(2-chloroethoxy)methane			111-91-1	
Bis(2-chloroethyl)ether			111-44-4	
2,2-oxybis(1-Chloropropane)			108-60-1	
Bis(2-ethylhexyl)phthalate			117-81-7	
4-Bromophenyl phenyl ether			101-55-3	
Butyl benzyl phthalate			85-68-7	
Caprolactam			105-60-2	
Carbazole			86-74-8	
4-Chloro-3-methylphenol			59-50-7	
4-Chloroaniline			106-47-8	
2-Chloronaphthalene			91-58-7	
2-Chlorophenol			95-57-8	
4-Chlorophenyl phenyl ether			7005-72-3	
Chrysene			218-01-9	
Dibenz(a,h)anthracene			53-70-3	
Dibenzofuran			132-64-9	
3,3-Dichlorobenzidine			91-94-1	

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			Location Name Sample Name Sample Date Parent Sample	MW-23 1600780-MW-23 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
2,4-Dichlorophenol			120-83-2	
Diethyl phthalate			84-66-2	
Dimethyl phthalate			131-11-3	
2,4-Dimethylphenol			105-67-9	
Di-n-butyl phthalate			84-74-2	
4,6-Dinitro-2-methylphenol			534-52-1	
2,4-Dinitrophenol			51-28-5	
2,4-Dinitrotoluene			121-14-2	
2,6-Dinitrotoluene			606-20-2	
Di-n-octyl phthalate			117-84-0	
Fluoranthene			206-44-0	
Fluorene			86-73-7	
Hexachlorobenzene			118-74-1	
1,3-Hexachlorobutadiene (C-46)			87-68-3	
Hexachlorocyclopentadiene			77-47-4	
Hexachloroethane			67-72-1	
Indeno(1,2,3-cd)pyrene			193-39-5	
Isophorone			78-59-1	
2-Methylnaphthalene			91-57-6	
2-Methylphenol (o-Cresol)			95-48-7	
3,4-Methylphenol (m,p-Cresol)			108394/106445	
Naphthalene			91-20-3	
2-Nitroaniline			88-74-4	
3-Nitroaniline			99-09-2	
4-Nitroaniline			100-01-6	
Nitrobenzene			98-95-3	

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-23 1600780-MW-23 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
2-Nitrophenol			88-75-5	
4-Nitrophenol			100-02-7	
N-Nitrosodiphenylamine (NDFA)			86-30-6	
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	
Pentachlorophenol			87-86-5	
Phenanthrene			85-01-8	
Phenol			108-95-2	
Pyrene			129-00-0	
2,4,5-Trichlorophenol			95-95-4	
2,4,6-Trichlorophenol			88-06-2	
Metals - Total	SW 6010C	ug/L		
Antimony			7440-36-0	< 20
Arsenic			7440-38-2	< 20
Beryllium			7440-41-7	< 4
Cadmium			7440-43-9	< 5
Calcium			7440-70-2	**220000**
Chromium			7440-47-3	< 10
Copper			7440-50-8	< 20
Iron			7439-89-6	**16000 J+**
Lead			7439-92-1	< 10
Magnesium			7439-95-4	**57000**
Manganese			7439-96-5	**890**
Mercury			7439-97-6	< 0.2
Nickel			7440-02-0	**4.2 J**
Potassium			7440-09-7	**2200**
Selenium			7782-49-2	< 20

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-23 1600780-MW-23 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Silver			7440-22-4	< 10
Sodium			7440-23-5	**100000**
Thallium			7440-28-0	< 25
Zinc			7440-66-6	< 20
Metals - Dissolved	SW 6010C	ug/L		NT
Antimony			7440-36-0	
Arsenic			7440-38-2	
Beryllium			7440-41-7	
Cadmium			7440-43-9	
Calcium			7440-70-2	
Chromium			7440-47-3	
Copper			7440-50-8	
Iron			7439-89-6	
Lead			7439-92-1	
Magnesium			7439-95-4	
Manganese			7439-96-5	
Mercury			7439-97-6	
Nickel			7440-02-0	
Potassium			7440-09-7	
Selenium			7782-49-2	
Silver			7440-22-4	
Sodium			7440-23-5	
Thallium			7440-28-0	
Zinc			7440-66-6	
Other				
Alkalinity	SM 2320B	mg/L	ALK	**670**

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-23 1600780-MW-23 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Ammonia	EPA 350.1	mg/L	7664-41-7	**0.15 J**
Bicarbonate alkalinity as CaCO3	SM 2320B	mg/L	HCO3	**670**
Bromide	EPA 300.0	mg/L	24959-67-9	**0.52**
Chloride	EPA 300.0	mg/L	16887-00-6	**200**
Nitrate as Nitrogen	EPA 300.0	mg/L	14797-55-8	< 0.05
Sulfate	EPA 300.0	mg/L	14808-79-8	**28**
Sulfide	EPA 376.1	mg/L	18496-25-8	**2.4**
Total Dissolved Solids	SM 2540C	mg/L	TDS	**1200**
Total Phosphorous	EPA 365.4	mg/L	7723-14-0	**0.12**

General Notes:
1. Analytes in blue are not detected in any sample.
2. Bolding indicates a detected result concentration.
3. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
4. mg/L = milligrams/liter.
5. ug/L = micrograms per liter or parts per billion (ppb).
6. CAS No. = Chemical Abstracts Service Number.
7. NT = The sample was not tested for this analyte.

Validation Qualifiers:
J The result is an estimated value.
R The result is rejected.
UJ The results was not detected at or above the reporting limit shown and the reporting limit is estimated.
+/- Result may be biased high/low, respectively.

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-24 1600780-MW-24 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Volatile Organic Compounds (VOCs)	SW 8260B	ug/L		
Acetone			67-64-1	< 1000
Benzene			71-43-2	**8600**
Bromobenzene			108-86-1	< 100
Bromochloromethane			74-97-5	< 100
Bromodichloromethane			75-27-4	< 100
Bromoform			75-25-2	< 100
Bromomethane			74-83-9	< 500
n-Butylbenzene			104-51-8	< 100
sec-Butylbenzene			135-98-8	< 100
tert-Butylbenzene			98-06-6	< 100
Carbon disulfide			75-15-0	< 200
Carbon tetrachloride			56-23-5	< 100
Chlorobenzene			108-90-7	< 100
Chloroethane			75-00-3	< 500
Chloroform (Trichloromethane)			67-66-3	< 100
Chloromethane			74-87-3	< 100
2-Chlorotoluene (o-Chlorotoluene)			95-49-8	< 100
4-Chlorotoluene (p-Chlorotoluene)			106-43-4	< 100
p-Cymene (4-Isopropyltoluene)			99-87-6	< 100
Dibromochloromethane			124-48-1	< 100
Dibromomethane			74-95-3	< 100
Dichlorodifluoromethane (Freon 12)			75-71-8	< 100
1,1-Dichloroethane			75-34-3	< 100
1,2-Dichloroethane			107-06-2	< 100
1,1-Dichloroethene			75-35-4	< 100

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-24 1600780-MW-24 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Total 1,2-Dichloroethene			540-59-0	< 200
cis-1,2-Dichloroethene			156-59-2	< 100
trans-1,2-Dichloroethene			156-60-5	< 100
1,2-Dichloropropane			78-87-5	< 100
1,3-Dichloropropane			142-28-9	< 100
2,2-Dichloropropane			594-20-7	< 100
1,1-Dichloropropene			563-58-6	< 100
cis-1,3-Dichloropropene			10061-01-5	< 100
trans-1,3-Dichloropropene			10061-02-6	< 100
Ethylbenzene			100-41-4	**1200**
2-Hexanone			591-78-6	< 1000
Isopropylbenzene			98-82-8	< 100
Methyl ethyl ketone (2-Butanone)			78-93-3	< 1000
Methyl tert-butyl ether (MTBE)			1634-04-4	< 1000
4-Methyl-2-pentanone (MIBK)			108-10-1	< 1000
Methylene chloride			75-09-2	< 500
n-Propylbenzene			103-65-1	**100**
Styrene			100-42-5	< 100
1,1,1,2-Tetrachloroethane			630-20-6	< 100
1,1,2,2-Tetrachloroethane			79-34-5	< 100
Tetrachloroethene (PCE)			127-18-4	< 100
Toluene			108-88-3	**3500**
1,2,3-Trichlorobenzene			87-61-6	< 500
1,1,1-Trichloroethane (TCA)			71-55-6	< 100
1,1,2-Trichloroethane			79-00-5	< 100
Trichloroethene (TCE)			79-01-6	< 100

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-24 1600780-MW-24 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Trichlorofluoromethane (Freon 11)			75-69-4	< 100
1,2,4-Trimethylbenzene			95-63-6	**1300**
1,3,5-Trimethylbenzene			108-67-8	**330**
Vinyl acetate			108-05-4	< 200
Vinyl chloride			75-01-4	< 100
o-Xylene			95-47-6	**2000**
m/p-Xylene			179601-23-1	**6100**
Total Xylene			1330-20-7	**8100**
Semi-Volatile Organic Compounds (SVOCs)	SW 8270D	ug/L		
Acenaphthene			83-32-9	< 1.9
Acenaphthylene			208-96-8	< 1.9
Acetophenone			98-86-2	< 9.6
Anthracene			120-12-7	< 1.9
Atrazine			1912-24-9	38 UJ
Benzaldehyde			100-52-7	< 9.6
Benzo(a)anthracene			56-55-3	< 1.9
Benzo(b)fluoranthene			205-99-2	< 1.9
Benzo(k)fluoranthene			207-08-9	< 1.9
Benzo(g,h,i)perylene			191-24-2	< 1.9
Benzo(a)pyrene			50-32-8	< 1.9
Biphenyl (1,1-Biphenyl)			92-52-4	< 9.6
Bis(2-chloroethoxy)methane			111-91-1	< 9.6
Bis(2-chloroethyl)ether			111-44-4	< 9.6
2,2-oxybis(1-Chloropropane)			108-60-1	< 9.6
Bis(2-ethylhexyl)phthalate			117-81-7	< 48
4-Bromophenyl phenyl ether			101-55-3	< 9.6

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
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			Location Name Sample Name Sample Date Parent Sample	MW-24 1600780-MW-24 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Butyl benzyl phthalate			85-68-7	< 9.6
Caprolactam			105-60-2	< 9.6
Carbazole			86-74-8	< 19
4-Chloro-3-methylphenol			59-50-7	< 9.6
4-Chloroaniline			106-47-8	< 38
2-Chloronaphthalene			91-58-7	< 9.6
2-Chlorophenol			95-57-8	< 9.6
4-Chlorophenyl phenyl ether			7005-72-3	< 9.6
Chrysene			218-01-9	< 1.9
Dibenz(a,h)anthracene			53-70-3	< 1.9
Dibenzofuran			132-64-9	< 9.6
3,3-Dichlorobenzidine			91-94-1	190 R
2,4-Dichlorophenol			120-83-2	< 9.6
Diethyl phthalate			84-66-2	< 9.6
Dimethyl phthalate			131-11-3	< 9.6
2,4-Dimethylphenol			105-67-9	**130**
Di-n-butyl phthalate			84-74-2	< 9.6
4,6-Dinitro-2-methylphenol			534-52-1	< 48
2,4-Dinitrophenol			51-28-5	< 96
2,4-Dinitrotoluene			121-14-2	< 9.6
2,6-Dinitrotoluene			606-20-2	< 9.6
Di-n-octyl phthalate			117-84-0	< 9.6
Fluoranthene			206-44-0	< 1.9
Fluorene			86-73-7	< 1.9
Hexachlorobenzene			118-74-1	< 9.6
1,3-Hexachlorobutadiene (C-46)			87-68-3	< 9.6

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-24 1600780-MW-24 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Hexachlorocyclopentadiene			77-47-4	< 19
Hexachloroethane			67-72-1	< 9.6
Indeno(1,2,3-cd)pyrene			193-39-5	< 1.9
Isophorone			78-59-1	< 9.6
2-Methylnaphthalene			91-57-6	**83**
2-Methylphenol (o-Cresol)			95-48-7	**150**
3,4-Methylphenol (m,p-Cresol)			108394/106445	**330**
Naphthalene			91-20-3	**300**
2-Nitroaniline			88-74-4	< 9.6
3-Nitroaniline			99-09-2	< 48
4-Nitroaniline			100-01-6	< 48
Nitrobenzene			98-95-3	< 9.6
2-Nitrophenol			88-75-5	< 9.6
4-Nitrophenol			100-02-7	< 77
N-Nitrosodiphenylamine (NDFA)			86-30-6	< 9.6
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	< 9.6
Pentachlorophenol			87-86-5	< 48
Phenanthrene			85-01-8	< 1.9
Phenol			108-95-2	**160**
Pyrene			129-00-0	< 1.9
2,4,5-Trichlorophenol			95-95-4	< 9.6
2,4,6-Trichlorophenol			88-06-2	< 9.6
Semi-Volatile Organic Compounds (SVOCs) - Dissolved	SW 8270D	ug/L		NT
Acenaphthene			83-32-9	
Acenaphthylene			208-96-8	
Acetophenone			98-86-2	

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-24 1600780-MW-24 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Anthracene			120-12-7	
Atrazine			1912-24-9	
Benzaldehyde			100-52-7	
Benzo(a)anthracene			56-55-3	
Benzo(b)fluoranthene			205-99-2	
Benzo(k)fluoranthene			207-08-9	
Benzo(g,h,i)perylene			191-24-2	
Benzo(a)pyrene			50-32-8	
Biphenyl (1,1-Biphenyl)			92-52-4	
Bis(2-chloroethoxy)methane			111-91-1	
Bis(2-chloroethyl)ether			111-44-4	
2,2-oxybis(1-Chloropropane)			108-60-1	
Bis(2-ethylhexyl)phthalate			117-81-7	
4-Bromophenyl phenyl ether			101-55-3	
Butyl benzyl phthalate			85-68-7	
Caprolactam			105-60-2	
Carbazole			86-74-8	
4-Chloro-3-methylphenol			59-50-7	
4-Chloroaniline			106-47-8	
2-Chloronaphthalene			91-58-7	
2-Chlorophenol			95-57-8	
4-Chlorophenyl phenyl ether			7005-72-3	
Chrysene			218-01-9	
Dibenz(a,h)anthracene			53-70-3	
Dibenzofuran			132-64-9	
3,3-Dichlorobenzidine			91-94-1	

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-24 1600780-MW-24 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
2,4-Dichlorophenol			120-83-2	
Diethyl phthalate			84-66-2	
Dimethyl phthalate			131-11-3	
2,4-Dimethylphenol			105-67-9	
Di-n-butyl phthalate			84-74-2	
4,6-Dinitro-2-methylphenol			534-52-1	
2,4-Dinitrophenol			51-28-5	
2,4-Dinitrotoluene			121-14-2	
2,6-Dinitrotoluene			606-20-2	
Di-n-octyl phthalate			117-84-0	
Fluoranthene			206-44-0	
Fluorene			86-73-7	
Hexachlorobenzene			118-74-1	
1,3-Hexachlorobutadiene (C-46)			87-68-3	
Hexachlorocyclopentadiene			77-47-4	
Hexachloroethane			67-72-1	
Indeno(1,2,3-cd)pyrene			193-39-5	
Isophorone			78-59-1	
2-Methylnaphthalene			91-57-6	
2-Methylphenol (o-Cresol)			95-48-7	
3,4-Methylphenol (m,p-Cresol)			108394/106445	
Naphthalene			91-20-3	
2-Nitroaniline			88-74-4	
3-Nitroaniline			99-09-2	
4-Nitroaniline			100-01-6	
Nitrobenzene			98-95-3	

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-24 1600780-MW-24 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
2-Nitrophenol			88-75-5	
4-Nitrophenol			100-02-7	
N-Nitrosodiphenylamine (NDFA)			86-30-6	
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	
Pentachlorophenol			87-86-5	
Phenanthrene			85-01-8	
Phenol			108-95-2	
Pyrene			129-00-0	
2,4,5-Trichlorophenol			95-95-4	
2,4,6-Trichlorophenol			88-06-2	
Metals - Total	SW 6010C	ug/L		
Antimony			7440-36-0	< 20
Arsenic			7440-38-2	**23**
Beryllium			7440-41-7	< 4
Cadmium			7440-43-9	< 5
Calcium			7440-70-2	**230000**
Chromium			7440-47-3	< 10
Copper			7440-50-8	< 20
Iron			7439-89-6	**23000**
Lead			7439-92-1	< 10
Magnesium			7439-95-4	**47000**
Manganese			7439-96-5	**1000**
Mercury			7439-97-6	< 0.2
Nickel			7440-02-0	**15 J**
Potassium			7440-09-7	**1500**
Selenium			7782-49-2	< 20

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-24 1600780-MW-24 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Silver			7440-22-4	< 10
Sodium			7440-23-5	**72000**
Thallium			7440-28-0	< 25
Zinc			7440-66-6	**8 J**
Metals - Dissolved	SW 6010C	ug/L		NT
Antimony			7440-36-0	
Arsenic			7440-38-2	
Beryllium			7440-41-7	
Cadmium			7440-43-9	
Calcium			7440-70-2	
Chromium			7440-47-3	
Copper			7440-50-8	
Iron			7439-89-6	
Lead			7439-92-1	
Magnesium			7439-95-4	
Manganese			7439-96-5	
Mercury			7439-97-6	
Nickel			7440-02-0	
Potassium			7440-09-7	
Selenium			7782-49-2	
Silver			7440-22-4	
Sodium			7440-23-5	
Thallium			7440-28-0	
Zinc			7440-66-6	
Other				
Alkalinity	SM 2320B	mg/L	ALK	**650**

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-24 1600780-MW-24 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Ammonia	EPA 350.1	mg/L	7664-41-7	< 0.25
Bicarbonate alkalinity as CaCO3	SM 2320B	mg/L	HCO3	**650**
Bromide	EPA 300.0	mg/L	24959-67-9	**0.34 J**
Chloride	EPA 300.0	mg/L	16887-00-6	**110**
Nitrate as Nitrogen	EPA 300.0	mg/L	14797-55-8	< 0.05
Sulfate	EPA 300.0	mg/L	14808-79-8	**7.7**
Sulfide	EPA 376.1	mg/L	18496-25-8	< 1
Total Dissolved Solids	SM 2540C	mg/L	TDS	**1000**
Total Phosphorous	EPA 365.4	mg/L	7723-14-0	**0.082 J**

General Notes:
1. Analytes in blue are not detected in any sample.
2. Bolding indicates a detected result concentration.
3. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
4. mg/L = milligrams/liter.
5. ug/L = micrograms per liter or parts per billion (ppb).
6. CAS No. = Chemical Abstracts Service Number.
7. NT = The sample was not tested for this analyte.

Validation Qualifiers:
J The result is an estimated value.
R The result is rejected.
UJ The results was not detected at or above the reporting limit shown and the reporting limit is estimated.
+/- Result may be biased high/low, respectively.

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-25 1600780-MW-25 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Volatile Organic Compounds (VOCs)	SW 8260B	ug/L		
Acetone			67-64-1	< 10
Benzene			71-43-2	< 1
Bromobenzene			108-86-1	< 1
Bromochloromethane			74-97-5	< 1
Bromodichloromethane			75-27-4	< 1
Bromoform			75-25-2	< 1
Bromomethane			74-83-9	< 5
n-Butylbenzene			104-51-8	< 1
sec-Butylbenzene			135-98-8	< 1
tert-Butylbenzene			98-06-6	< 1
Carbon disulfide			75-15-0	< 2
Carbon tetrachloride			56-23-5	< 1
Chlorobenzene			108-90-7	< 1
Chloroethane			75-00-3	< 5
Chloroform (Trichloromethane)			67-66-3	< 1
Chloromethane			74-87-3	< 1
2-Chlorotoluene (o-Chlorotoluene)			95-49-8	< 1
4-Chlorotoluene (p-Chlorotoluene)			106-43-4	< 1
p-Cymene (4-Isopropyltoluene)			99-87-6	< 1
Dibromochloromethane			124-48-1	< 1
Dibromomethane			74-95-3	< 1
Dichlorodifluoromethane (Freon 12)			75-71-8	< 1
1,1-Dichloroethane			75-34-3	< 1
1,2-Dichloroethane			107-06-2	< 1
1,1-Dichloroethene			75-35-4	< 1

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
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			Location Name Sample Name Sample Date Parent Sample	MW-25 1600780-MW-25 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Total 1,2-Dichloroethene			540-59-0	< 2
cis-1,2-Dichloroethene			156-59-2	< 1
trans-1,2-Dichloroethene			156-60-5	< 1
1,2-Dichloropropane			78-87-5	< 1
1,3-Dichloropropane			142-28-9	< 1
2,2-Dichloropropane			594-20-7	< 1
1,1-Dichloropropene			563-58-6	< 1
cis-1,3-Dichloropropene			10061-01-5	< 1
trans-1,3-Dichloropropene			10061-02-6	< 1
Ethylbenzene			100-41-4	< 1
2-Hexanone			591-78-6	< 10
Isopropylbenzene			98-82-8	< 1
Methyl ethyl ketone (2-Butanone)			78-93-3	< 10
Methyl tert-butyl ether (MTBE)			1634-04-4	**33**
4-Methyl-2-pentanone (MIBK)			108-10-1	< 10
Methylene chloride			75-09-2	< 5
n-Propylbenzene			103-65-1	< 1
Styrene			100-42-5	< 1
1,1,1,2-Tetrachloroethane			630-20-6	< 1
1,1,2,2-Tetrachloroethane			79-34-5	< 1
Tetrachloroethene (PCE)			127-18-4	< 1
Toluene			108-88-3	< 1
1,2,3-Trichlorobenzene			87-61-6	< 5
1,1,1-Trichloroethane (TCA)			71-55-6	< 1
1,1,2-Trichloroethane			79-00-5	< 1
Trichloroethene (TCE)			79-01-6	< 1

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-25 1600780-MW-25 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Trichlorofluoromethane (Freon 11)			75-69-4	< 1
1,2,4-Trimethylbenzene			95-63-6	< 1
1,3,5-Trimethylbenzene			108-67-8	**0.82 J**
Vinyl acetate			108-05-4	< 2
Vinyl chloride			75-01-4	< 1
o-Xylene			95-47-6	**0.36 J**
m/p-Xylene			179601-23-1	**0.92 J**
Total Xylene			1330-20-7	**1.3**
Semi-Volatile Organic Compounds (SVOCs)	SW 8270D	ug/L		
Acenaphthene			83-32-9	< 0.95
Acenaphthylene			208-96-8	< 0.95
Acetophenone			98-86-2	< 4.8
Anthracene			120-12-7	< 0.95
Atrazine			1912-24-9	< 19
Benzaldehyde			100-52-7	< 4.8
Benzo(a)anthracene			56-55-3	< 0.95
Benzo(b)fluoranthene			205-99-2	< 0.95
Benzo(k)fluoranthene			207-08-9	< 0.95
Benzo(g,h,i)perylene			191-24-2	< 0.95
Benzo(a)pyrene			50-32-8	< 0.95
Biphenyl (1,1-Biphenyl)			92-52-4	< 4.8
Bis(2-chloroethoxy)methane			111-91-1	< 4.8
Bis(2-chloroethyl)ether			111-44-4	< 4.8
2,2-oxybis(1-Chloropropane)			108-60-1	< 4.8
Bis(2-ethylhexyl)phthalate			117-81-7	< 24
4-Bromophenyl phenyl ether			101-55-3	< 4.8

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-25 1600780-MW-25 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Butyl benzyl phthalate			85-68-7	< 4.8
Caprolactam			105-60-2	< 4.8
Carbazole			86-74-8	< 9.5
4-Chloro-3-methylphenol			59-50-7	< 4.8
4-Chloroaniline			106-47-8	< 19
2-Chloronaphthalene			91-58-7	< 4.8
2-Chlorophenol			95-57-8	< 4.8
4-Chlorophenyl phenyl ether			7005-72-3	< 4.8
Chrysene			218-01-9	< 0.95
Dibenz(a,h)anthracene			53-70-3	< 0.95
Dibenzofuran			132-64-9	< 4.8
3,3-Dichlorobenzidine			91-94-1	< 95
2,4-Dichlorophenol			120-83-2	< 4.8
Diethyl phthalate			84-66-2	< 4.8
Dimethyl phthalate			131-11-3	< 4.8
2,4-Dimethylphenol			105-67-9	**14**
Di-n-butyl phthalate			84-74-2	< 4.8
4,6-Dinitro-2-methylphenol			534-52-1	< 24
2,4-Dinitrophenol			51-28-5	< 48
2,4-Dinitrotoluene			121-14-2	< 4.8
2,6-Dinitrotoluene			606-20-2	< 4.8
Di-n-octyl phthalate			117-84-0	< 4.8
Fluoranthene			206-44-0	< 0.95
Fluorene			86-73-7	< 0.95
Hexachlorobenzene			118-74-1	< 4.8
1,3-Hexachlorobutadiene (C-46)			87-68-3	< 4.8

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-25 1600780-MW-25 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Hexachlorocyclopentadiene			77-47-4	9.5 R
Hexachloroethane			67-72-1	< 4.8
Indeno(1,2,3-cd)pyrene			193-39-5	< 0.95
Isophorone			78-59-1	< 4.8
2-Methylnaphthalene			91-57-6	**3.8**
2-Methylphenol (o-Cresol)			95-48-7	**9 J**
3,4-Methylphenol (m,p-Cresol)			108394/106445	**9.8**
Naphthalene			91-20-3	**7**
2-Nitroaniline			88-74-4	< 4.8
3-Nitroaniline			99-09-2	< 24
4-Nitroaniline			100-01-6	< 24
Nitrobenzene			98-95-3	< 4.8
2-Nitrophenol			88-75-5	< 4.8
4-Nitrophenol			100-02-7	< 38
N-Nitrosodiphenylamine (NDFA)			86-30-6	< 4.8
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	< 4.8
Pentachlorophenol			87-86-5	< 24
Phenanthrene			85-01-8	< 0.95
Phenol			108-95-2	**32**
Pyrene			129-00-0	< 0.95
2,4,5-Trichlorophenol			95-95-4	< 4.8
2,4,6-Trichlorophenol			88-06-2	< 4.8
Semi-Volatile Organic Compounds (SVOCs) - Dissolved	SW 8270D	ug/L		NT
Acenaphthene			83-32-9	
Acenaphthylene			208-96-8	
Acetophenone			98-86-2	

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-25 1600780-MW-25 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Anthracene			120-12-7	
Atrazine			1912-24-9	
Benzaldehyde			100-52-7	
Benzo(a)anthracene			56-55-3	
Benzo(b)fluoranthene			205-99-2	
Benzo(k)fluoranthene			207-08-9	
Benzo(g,h,i)perylene			191-24-2	
Benzo(a)pyrene			50-32-8	
Biphenyl (1,1-Biphenyl)			92-52-4	
Bis(2-chloroethoxy)methane			111-91-1	
Bis(2-chloroethyl)ether			111-44-4	
2,2-oxybis(1-Chloropropane)			108-60-1	
Bis(2-ethylhexyl)phthalate			117-81-7	
4-Bromophenyl phenyl ether			101-55-3	
Butyl benzyl phthalate			85-68-7	
Caprolactam			105-60-2	
Carbazole			86-74-8	
4-Chloro-3-methylphenol			59-50-7	
4-Chloroaniline			106-47-8	
2-Chloronaphthalene			91-58-7	
2-Chlorophenol			95-57-8	
4-Chlorophenyl phenyl ether			7005-72-3	
Chrysene			218-01-9	
Dibenz(a,h)anthracene			53-70-3	
Dibenzofuran			132-64-9	
3,3-Dichlorobenzidine			91-94-1	

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-25 1600780-MW-25 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
2,4-Dichlorophenol			120-83-2	
Diethyl phthalate			84-66-2	
Dimethyl phthalate			131-11-3	
2,4-Dimethylphenol			105-67-9	
Di-n-butyl phthalate			84-74-2	
4,6-Dinitro-2-methylphenol			534-52-1	
2,4-Dinitrophenol			51-28-5	
2,4-Dinitrotoluene			121-14-2	
2,6-Dinitrotoluene			606-20-2	
Di-n-octyl phthalate			117-84-0	
Fluoranthene			206-44-0	
Fluorene			86-73-7	
Hexachlorobenzene			118-74-1	
1,3-Hexachlorobutadiene (C-46)			87-68-3	
Hexachlorocyclopentadiene			77-47-4	
Hexachloroethane			67-72-1	
Indeno(1,2,3-cd)pyrene			193-39-5	
Isophorone			78-59-1	
2-Methylnaphthalene			91-57-6	
2-Methylphenol (o-Cresol)			95-48-7	
3,4-Methylphenol (m,p-Cresol)			108394/106445	
Naphthalene			91-20-3	
2-Nitroaniline			88-74-4	
3-Nitroaniline			99-09-2	
4-Nitroaniline			100-01-6	
Nitrobenzene			98-95-3	

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-25 1600780-MW-25 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
2-Nitrophenol			88-75-5	
4-Nitrophenol			100-02-7	
N-Nitrosodiphenylamine (NDFA)			86-30-6	
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	
Pentachlorophenol			87-86-5	
Phenanthrene			85-01-8	
Phenol			108-95-2	
Pyrene			129-00-0	
2,4,5-Trichlorophenol			95-95-4	
2,4,6-Trichlorophenol			88-06-2	
Metals - Total	SW 6010C	ug/L		
Antimony			7440-36-0	< 20
Arsenic			7440-38-2	< 20
Beryllium			7440-41-7	< 4
Cadmium			7440-43-9	< 5
Calcium			7440-70-2	**280000**
Chromium			7440-47-3	< 10
Copper			7440-50-8	**3.6 J**
Iron			7439-89-6	**240 J+**
Lead			7439-92-1	**3.9 J**
Magnesium			7439-95-4	**57000**
Manganese			7439-96-5	**440**
Mercury			7439-97-6	< 0.2
Nickel			7440-02-0	**30 J**
Potassium			7440-09-7	**3700**
Selenium			7782-49-2	< 20

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-25 1600780-MW-25 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Silver			7440-22-4	< 10
Sodium			7440-23-5	**84000**
Thallium			7440-28-0	< 25
Zinc			7440-66-6	**55**
Metals - Dissolved	SW 6010C	ug/L		NT
Antimony			7440-36-0	
Arsenic			7440-38-2	
Beryllium			7440-41-7	
Cadmium			7440-43-9	
Calcium			7440-70-2	
Chromium			7440-47-3	
Copper			7440-50-8	
Iron			7439-89-6	
Lead			7439-92-1	
Magnesium			7439-95-4	
Manganese			7439-96-5	
Mercury			7439-97-6	
Nickel			7440-02-0	
Potassium			7440-09-7	
Selenium			7782-49-2	
Silver			7440-22-4	
Sodium			7440-23-5	
Thallium			7440-28-0	
Zinc			7440-66-6	
Other				
Alkalinity	SM 2320B	mg/L	ALK	**600**

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			Location Name Sample Name Sample Date Parent Sample	MW-25 1600780-MW-25 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Ammonia	EPA 350.1	mg/L	7664-41-7	< 0.25
Bicarbonate alkalinity as CaCO3	SM 2320B	mg/L	HCO3	**600**
Bromide	EPA 300.0	mg/L	24959-67-9	**0.75**
Chloride	EPA 300.0	mg/L	16887-00-6	**260**
Nitrate as Nitrogen	EPA 300.0	mg/L	14797-55-8	< 0.05
Sulfate	EPA 300.0	mg/L	14808-79-8	**170**
Sulfide	EPA 376.1	mg/L	18496-25-8	< 1
Total Dissolved Solids	SM 2540C	mg/L	TDS	**1200**
Total Phosphorous	EPA 365.4	mg/L	7723-14-0	**0.11**

General Notes:
1. Analytes in blue are not detected in any sample.
2. Bolding indicates a detected result concentration.
3. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
4. mg/L = milligrams/liter.
5. ug/L = micrograms per liter or parts per billion (ppb).
6. CAS No. = Chemical Abstracts Service Number.
7. NT = The sample was not tested for this analyte.

Validation Qualifiers:
J The result is an estimated value.
R The result is rejected.
UJ The results was not detected at or above the reporting limit shown and the reporting limit is estimated.
+/- Result may be biased high/low, respectively.

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			Location Name Sample Name Sample Date Parent Sample	MW-26 1600780-MW-26 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Volatile Organic Compounds (VOCs)	SW 8260B	ug/L		
Acetone			67-64-1	< 10
Benzene			71-43-2	**0.51 J**
Bromobenzene			108-86-1	< 1
Bromochloromethane			74-97-5	< 1
Bromodichloromethane			75-27-4	< 1
Bromoform			75-25-2	< 1
Bromomethane			74-83-9	< 5
n-Butylbenzene			104-51-8	< 1
sec-Butylbenzene			135-98-8	< 1
tert-Butylbenzene			98-06-6	< 1
Carbon disulfide			75-15-0	< 2
Carbon tetrachloride			56-23-5	< 1
Chlorobenzene			108-90-7	< 1
Chloroethane			75-00-3	< 5
Chloroform (Trichloromethane)			67-66-3	< 1
Chloromethane			74-87-3	< 1
2-Chlorotoluene (o-Chlorotoluene)			95-49-8	< 1
4-Chlorotoluene (p-Chlorotoluene)			106-43-4	< 1
p-Cymene (4-Isopropyltoluene)			99-87-6	< 1
Dibromochloromethane			124-48-1	< 1
Dibromomethane			74-95-3	< 1
Dichlorodifluoromethane (Freon 12)			75-71-8	< 1
1,1-Dichloroethane			75-34-3	< 1
1,2-Dichloroethane			107-06-2	< 1
1,1-Dichloroethene			75-35-4	< 1

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-26 1600780-MW-26 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Total 1,2-Dichloroethene			540-59-0	< 2
cis-1,2-Dichloroethene			156-59-2	< 1
trans-1,2-Dichloroethene			156-60-5	< 1
1,2-Dichloropropane			78-87-5	< 1
1,3-Dichloropropane			142-28-9	< 1
2,2-Dichloropropane			594-20-7	< 1
1,1-Dichloropropene			563-58-6	< 1
cis-1,3-Dichloropropene			10061-01-5	< 1
trans-1,3-Dichloropropene			10061-02-6	< 1
Ethylbenzene			100-41-4	< 1
2-Hexanone			591-78-6	< 10
Isopropylbenzene			98-82-8	< 1
Methyl ethyl ketone (2-Butanone)			78-93-3	< 10
Methyl tert-butyl ether (MTBE)			1634-04-4	**8.4 J**
4-Methyl-2-pentanone (MIBK)			108-10-1	< 10
Methylene chloride			75-09-2	< 5
n-Propylbenzene			103-65-1	< 1
Styrene			100-42-5	< 1
1,1,1,2-Tetrachloroethane			630-20-6	< 1
1,1,2,2-Tetrachloroethane			79-34-5	< 1
Tetrachloroethene (PCE)			127-18-4	< 1
Toluene			108-88-3	< 1
1,2,3-Trichlorobenzene			87-61-6	< 5
1,1,1-Trichloroethane (TCA)			71-55-6	< 1
1,1,2-Trichloroethane			79-00-5	< 1
Trichloroethene (TCE)			79-01-6	< 1

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			Location Name Sample Name Sample Date Parent Sample	MW-26 1600780-MW-26 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Trichlorofluoromethane (Freon 11)			75-69-4	< 1
1,2,4-Trimethylbenzene			95-63-6	< 1
1,3,5-Trimethylbenzene			108-67-8	< 1
Vinyl acetate			108-05-4	< 2
Vinyl chloride			75-01-4	< 1
o-Xylene			95-47-6	< 1
m/p-Xylene			179601-23-1	< 1
Total Xylene			1330-20-7	< 1
Semi-Volatile Organic Compounds (SVOCs)	SW 8270D	ug/L		
Acenaphthene			83-32-9	< 0.19
Acenaphthylene			208-96-8	< 0.19
Acetophenone			98-86-2	< 0.95
Anthracene			120-12-7	< 0.19
Atrazine			1912-24-9	< 3.8
Benzaldehyde			100-52-7	< 0.95
Benzo(a)anthracene			56-55-3	< 0.19
Benzo(b)fluoranthene			205-99-2	< 0.19
Benzo(k)fluoranthene			207-08-9	< 0.19
Benzo(g,h,i)perylene			191-24-2	< 0.19
Benzo(a)pyrene			50-32-8	< 0.19
Biphenyl (1,1-Biphenyl)			92-52-4	< 0.95
Bis(2-chloroethoxy)methane			111-91-1	< 0.95
Bis(2-chloroethyl)ether			111-44-4	< 0.95
2,2-oxybis(1-Chloropropane)			108-60-1	< 0.95
Bis(2-ethylhexyl)phthalate			117-81-7	< 4.8
4-Bromophenyl phenyl ether			101-55-3	< 0.95

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			Location Name Sample Name Sample Date Parent Sample	MW-26 1600780-MW-26 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Butyl benzyl phthalate			85-68-7	< 0.95
Caprolactam			105-60-2	< 0.95
Carbazole			86-74-8	< 1.9
4-Chloro-3-methylphenol			59-50-7	< 0.95
4-Chloroaniline			106-47-8	< 3.8
2-Chloronaphthalene			91-58-7	< 0.95
2-Chlorophenol			95-57-8	< 0.95
4-Chlorophenyl phenyl ether			7005-72-3	< 0.95
Chrysene			218-01-9	< 0.19
Dibenz(a,h)anthracene			53-70-3	< 0.19
Dibenzofuran			132-64-9	< 0.95
3,3-Dichlorobenzidine			91-94-1	< 19
2,4-Dichlorophenol			120-83-2	< 0.95
Diethyl phthalate			84-66-2	< 0.95
Dimethyl phthalate			131-11-3	< 0.95
2,4-Dimethylphenol			105-67-9	< 1.9
Di-n-butyl phthalate			84-74-2	< 0.95
4,6-Dinitro-2-methylphenol			534-52-1	< 4.8
2,4-Dinitrophenol			51-28-5	< 9.5
2,4-Dinitrotoluene			121-14-2	< 0.95
2,6-Dinitrotoluene			606-20-2	< 0.95
Di-n-octyl phthalate			117-84-0	< 0.95
Fluoranthene			206-44-0	< 0.19
Fluorene			86-73-7	< 0.19
Hexachlorobenzene			118-74-1	< 0.95
1,3-Hexachlorobutadiene (C-46)			87-68-3	< 0.95

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			Location Name Sample Name Sample Date Parent Sample	MW-26 1600780-MW-26 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Hexachlorocyclopentadiene			77-47-4	1.9 R
Hexachloroethane			67-72-1	< 0.95
Indeno(1,2,3-cd)pyrene			193-39-5	< 0.19
Isophorone			78-59-1	< 0.95
2-Methylnaphthalene			91-57-6	< 0.19
2-Methylphenol (o-Cresol)			95-48-7	< 1.9
3,4-Methylphenol (m,p-Cresol)			108394/106445	< 1.9
Naphthalene			91-20-3	< 0.19
2-Nitroaniline			88-74-4	< 0.95
3-Nitroaniline			99-09-2	< 4.8
4-Nitroaniline			100-01-6	< 4.8
Nitrobenzene			98-95-3	< 0.95
2-Nitrophenol			88-75-5	< 0.95
4-Nitrophenol			100-02-7	< 7.6
N-Nitrosodiphenylamine (NDFA)			86-30-6	< 0.95
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	< 0.95
Pentachlorophenol			87-86-5	< 4.8
Phenanthrene			85-01-8	< 0.19
Phenol			108-95-2	< 0.95
Pyrene			129-00-0	< 0.19
2,4,5-Trichlorophenol			95-95-4	< 0.95
2,4,6-Trichlorophenol			88-06-2	< 0.95
Semi-Volatile Organic Compounds (SVOCs) - Dissolved	SW 8270D	ug/L		NT
Acenaphthene			83-32-9	
Acenaphthylene			208-96-8	
Acetophenone			98-86-2	

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			Location Name Sample Name Sample Date Parent Sample	MW-26 1600780-MW-26 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Anthracene			120-12-7	
Atrazine			1912-24-9	
Benzaldehyde			100-52-7	
Benzo(a)anthracene			56-55-3	
Benzo(b)fluoranthene			205-99-2	
Benzo(k)fluoranthene			207-08-9	
Benzo(g,h,i)perylene			191-24-2	
Benzo(a)pyrene			50-32-8	
Biphenyl (1,1-Biphenyl)			92-52-4	
Bis(2-chloroethoxy)methane			111-91-1	
Bis(2-chloroethyl)ether			111-44-4	
2,2-oxybis(1-Chloropropane)			108-60-1	
Bis(2-ethylhexyl)phthalate			117-81-7	
4-Bromophenyl phenyl ether			101-55-3	
Butyl benzyl phthalate			85-68-7	
Caprolactam			105-60-2	
Carbazole			86-74-8	
4-Chloro-3-methylphenol			59-50-7	
4-Chloroaniline			106-47-8	
2-Chloronaphthalene			91-58-7	
2-Chlorophenol			95-57-8	
4-Chlorophenyl phenyl ether			7005-72-3	
Chrysene			218-01-9	
Dibenz(a,h)anthracene			53-70-3	
Dibenzofuran			132-64-9	
3,3-Dichlorobenzidine			91-94-1	

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			Location Name Sample Name Sample Date Parent Sample	MW-26 1600780-MW-26 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
2,4-Dichlorophenol			120-83-2	
Diethyl phthalate			84-66-2	
Dimethyl phthalate			131-11-3	
2,4-Dimethylphenol			105-67-9	
Di-n-butyl phthalate			84-74-2	
4,6-Dinitro-2-methylphenol			534-52-1	
2,4-Dinitrophenol			51-28-5	
2,4-Dinitrotoluene			121-14-2	
2,6-Dinitrotoluene			606-20-2	
Di-n-octyl phthalate			117-84-0	
Fluoranthene			206-44-0	
Fluorene			86-73-7	
Hexachlorobenzene			118-74-1	
1,3-Hexachlorobutadiene (C-46)			87-68-3	
Hexachlorocyclopentadiene			77-47-4	
Hexachloroethane			67-72-1	
Indeno(1,2,3-cd)pyrene			193-39-5	
Isophorone			78-59-1	
2-Methylnaphthalene			91-57-6	
2-Methylphenol (o-Cresol)			95-48-7	
3,4-Methylphenol (m,p-Cresol)			108394/106445	
Naphthalene			91-20-3	
2-Nitroaniline			88-74-4	
3-Nitroaniline			99-09-2	
4-Nitroaniline			100-01-6	
Nitrobenzene			98-95-3	

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			Location Name Sample Name Sample Date Parent Sample	MW-26 1600780-MW-26 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
2-Nitrophenol			88-75-5	
4-Nitrophenol			100-02-7	
N-Nitrosodiphenylamine (NDFA)			86-30-6	
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	
Pentachlorophenol			87-86-5	
Phenanthrene			85-01-8	
Phenol			108-95-2	
Pyrene			129-00-0	
2,4,5-Trichlorophenol			95-95-4	
2,4,6-Trichlorophenol			88-06-2	
Metals - Total	SW 6010C	ug/L		
Antimony			7440-36-0	< 20
Arsenic			7440-38-2	< 20
Beryllium			7440-41-7	< 4
Cadmium			7440-43-9	< 5
Calcium			7440-70-2	**170000**
Chromium			7440-47-3	< 10
Copper			7440-50-8	< 20
Iron			7439-89-6	**180 J+**
Lead			7439-92-1	< 10
Magnesium			7439-95-4	**20000**
Manganese			7439-96-5	**91**
Mercury			7439-97-6	< 0.2
Nickel			7440-02-0	**7.4 J**
Potassium			7440-09-7	**930 J**
Selenium			7782-49-2	< 20

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-26 1600780-MW-26 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Silver			7440-22-4	< 10
Sodium			7440-23-5	**58000**
Thallium			7440-28-0	< 25
Zinc			7440-66-6	**12 J**
Metals - Dissolved	SW 6010C	ug/L		NT
Antimony			7440-36-0	
Arsenic			7440-38-2	
Beryllium			7440-41-7	
Cadmium			7440-43-9	
Calcium			7440-70-2	
Chromium			7440-47-3	
Copper			7440-50-8	
Iron			7439-89-6	
Lead			7439-92-1	
Magnesium			7439-95-4	
Manganese			7439-96-5	
Mercury			7439-97-6	
Nickel			7440-02-0	
Potassium			7440-09-7	
Selenium			7782-49-2	
Silver			7440-22-4	
Sodium			7440-23-5	
Thallium			7440-28-0	
Zinc			7440-66-6	
Other				
Alkalinity	SM 2320B	mg/L	ALK	**440**

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-26 1600780-MW-26 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Ammonia	EPA 350.1	mg/L	7664-41-7	< 0.25
Bicarbonate alkalinity as CaCO3	SM 2320B	mg/L	HCO3	**440**
Bromide	EPA 300.0	mg/L	24959-67-9	**0.39 J**
Chloride	EPA 300.0	mg/L	16887-00-6	**45**
Nitrate as Nitrogen	EPA 300.0	mg/L	14797-55-8	**0.028 J**
Sulfate	EPA 300.0	mg/L	14808-79-8	**110**
Sulfide	EPA 376.1	mg/L	18496-25-8	< 1
Total Dissolved Solids	SM 2540C	mg/L	TDS	**700**
Total Phosphorous	EPA 365.4	mg/L	7723-14-0	**0.041 J**

General Notes:
1. Analytes in blue are not detected in any sample.
2. Bolding indicates a detected result concentration.
3. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
4. mg/L = milligrams/liter.
5. ug/L = micrograms per liter or parts per billion (ppb).
6. CAS No. = Chemical Abstracts Service Number.
7. NT = The sample was not tested for this analyte.

Validation Qualifiers:
J The result is an estimated value.
R The result is rejected.
UJ The results was not detected at or above the reporting limit shown and the reporting limit is estimated.
+/- Result may be biased high/low, respectively.

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-A 1600780-MW-A 8/2/2016
Analyte	**Method**	**Units**	**CAS No.**	
Volatile Organic Compounds (VOCs)	SW 8260B	ug/L		
Acetone			67-64-1	
Benzene			71-43-2	
Bromobenzene			108-86-1	
Bromochloromethane			74-97-5	
Bromodichloromethane			75-27-4	
Bromoform			75-25-2	
Bromomethane			74-83-9	
n-Butylbenzene			104-51-8	
sec-Butylbenzene			135-98-8	
tert-Butylbenzene			98-06-6	
Carbon disulfide			75-15-0	
Carbon tetrachloride			56-23-5	
Chlorobenzene			108-90-7	
Chloroethane			75-00-3	
Chloroform (Trichloromethane)			67-66-3	
Chloromethane			74-87-3	
2-Chlorotoluene (o-Chlorotoluene)			95-49-8	
4-Chlorotoluene (p-Chlorotoluene)			106-43-4	
p-Cymene (4-Isopropyltoluene)			99-87-6	
Dibromochloromethane			124-48-1	
Dibromomethane			74-95-3	
Dichlorodifluoromethane (Freon 12)			75-71-8	
1,1-Dichloroethane			75-34-3	
1,2-Dichloroethane			107-06-2	
1,1-Dichloroethene			75-35-4	

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-A 1600780-MW-A 8/2/2016
Analyte	**Method**	**Units**	**CAS No.**	
Total 1,2-Dichloroethene			540-59-0	
cis-1,2-Dichloroethene			156-59-2	
trans-1,2-Dichloroethene			156-60-5	
1,2-Dichloropropane			78-87-5	
1,3-Dichloropropane			142-28-9	
2,2-Dichloropropane			594-20-7	
1,1-Dichloropropene			563-58-6	
cis-1,3-Dichloropropene			10061-01-5	
trans-1,3-Dichloropropene			10061-02-6	
Ethylbenzene			100-41-4	
2-Hexanone			591-78-6	
Isopropylbenzene			98-82-8	
Methyl ethyl ketone (2-Butanone)			78-93-3	
Methyl tert-butyl ether (MTBE)			1634-04-4	
4-Methyl-2-pentanone (MIBK)			108-10-1	
Methylene chloride			75-09-2	
n-Propylbenzene			103-65-1	
Styrene			100-42-5	
1,1,1,2-Tetrachloroethane			630-20-6	
1,1,2,2-Tetrachloroethane			79-34-5	
Tetrachloroethene (PCE)			127-18-4	
Toluene			108-88-3	
1,2,3-Trichlorobenzene			87-61-6	
1,1,1-Trichloroethane (TCA)			71-55-6	
1,1,2-Trichloroethane			79-00-5	
Trichloroethene (TCE)			79-01-6	

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-A 1600780-MW-A 8/2/2016
Analyte	**Method**	**Units**	**CAS No.**	
Trichlorofluoromethane (Freon 11)			75-69-4	
1,2,4-Trimethylbenzene			95-63-6	
1,3,5-Trimethylbenzene			108-67-8	
Vinyl acetate			108-05-4	
Vinyl chloride			75-01-4	
o-Xylene			95-47-6	
m/p-Xylene			179601-23-1	
Total Xylene			1330-20-7	
Semi-Volatile Organic Compounds (SVOCs)	SW 8270D	ug/L		
Acenaphthene			83-32-9	< 2
Acenaphthylene			208-96-8	< 2
Acetophenone			98-86-2	**33**
Anthracene			120-12-7	< 2
Atrazine			1912-24-9	< 40
Benzaldehyde			100-52-7	< 9.9
Benzo(a)anthracene			56-55-3	< 2
Benzo(b)fluoranthene			205-99-2	< 2
Benzo(k)fluoranthene			207-08-9	< 2
Benzo(g,h,i)perylene			191-24-2	< 2
Benzo(a)pyrene			50-32-8	< 2
Biphenyl (1,1-Biphenyl)			92-52-4	< 9.9
Bis(2-chloroethoxy)methane			111-91-1	< 9.9
Bis(2-chloroethyl)ether			111-44-4	< 9.9
2,2-oxybis(1-Chloropropane)			108-60-1	< 9.9
Bis(2-ethylhexyl)phthalate			117-81-7	< 50
4-Bromophenyl phenyl ether			101-55-3	< 9.9

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-A 1600780-MW-A 8/2/2016
Analyte	**Method**	**Units**	**CAS No.**	
Butyl benzyl phthalate			85-68-7	< 9.9
Caprolactam			105-60-2	< 9.9
Carbazole			86-74-8	< 20
4-Chloro-3-methylphenol			59-50-7	< 9.9
4-Chloroaniline			106-47-8	< 40
2-Chloronaphthalene			91-58-7	< 9.9
2-Chlorophenol			95-57-8	< 9.9
4-Chlorophenyl phenyl ether			7005-72-3	< 9.9
Chrysene			218-01-9	< 2
Dibenz(a,h)anthracene			53-70-3	< 2
Dibenzofuran			132-64-9	< 9.9
3,3-Dichlorobenzidine			91-94-1	< 200
2,4-Dichlorophenol			120-83-2	< 9.9
Diethyl phthalate			84-66-2	< 9.9
Dimethyl phthalate			131-11-3	< 9.9
2,4-Dimethylphenol			105-67-9	**180**
Di-n-butyl phthalate			84-74-2	< 9.9
4,6-Dinitro-2-methylphenol			534-52-1	< 50
2,4-Dinitrophenol			51-28-5	< 99
2,4-Dinitrotoluene			121-14-2	< 9.9
2,6-Dinitrotoluene			606-20-2	< 9.9
Di-n-octyl phthalate			117-84-0	< 9.9
Fluoranthene			206-44-0	< 2
Fluorene			86-73-7	< 2
Hexachlorobenzene			118-74-1	< 9.9
1,3-Hexachlorobutadiene (C-46)			87-68-3	< 9.9

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-A 1600780-MW-A 8/2/2016
Analyte	**Method**	**Units**	**CAS No.**	
Hexachlorocyclopentadiene			77-47-4	< 20
Hexachloroethane			67-72-1	< 9.9
Indeno(1,2,3-cd)pyrene			193-39-5	< 2
Isophorone			78-59-1	< 9.9
2-Methylnaphthalene			91-57-6	**68**
2-Methylphenol (o-Cresol)			95-48-7	**310**
3,4-Methylphenol (m,p-Cresol)			108394/106445	**550**
Naphthalene			91-20-3	**170**
2-Nitroaniline			88-74-4	< 9.9
3-Nitroaniline			99-09-2	< 50
4-Nitroaniline			100-01-6	< 50
Nitrobenzene			98-95-3	< 9.9
2-Nitrophenol			88-75-5	< 9.9
4-Nitrophenol			100-02-7	< 79
N-Nitrosodiphenylamine (NDFA)			86-30-6	< 9.9
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	< 9.9
Pentachlorophenol			87-86-5	< 50
Phenanthrene			85-01-8	< 2
Phenol			108-95-2	**170**
Pyrene			129-00-0	< 2
2,4,5-Trichlorophenol			95-95-4	< 9.9
2,4,6-Trichlorophenol			88-06-2	< 9.9
Semi-Volatile Organic Compounds (SVOCs) - Dissolved	SW 8270D	ug/L		NT
Acenaphthene			83-32-9	
Acenaphthylene			208-96-8	
Acetophenone			98-86-2	

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-A 1600780-MW-A 8/2/2016
Analyte	**Method**	**Units**	**CAS No.**	
Anthracene			120-12-7	
Atrazine			1912-24-9	
Benzaldehyde			100-52-7	
Benzo(a)anthracene			56-55-3	
Benzo(b)fluoranthene			205-99-2	
Benzo(k)fluoranthene			207-08-9	
Benzo(g,h,i)perylene			191-24-2	
Benzo(a)pyrene			50-32-8	
Biphenyl (1,1-Biphenyl)			92-52-4	
Bis(2-chloroethoxy)methane			111-91-1	
Bis(2-chloroethyl)ether			111-44-4	
2,2-oxybis(1-Chloropropane)			108-60-1	
Bis(2-ethylhexyl)phthalate			117-81-7	
4-Bromophenyl phenyl ether			101-55-3	
Butyl benzyl phthalate			85-68-7	
Caprolactam			105-60-2	
Carbazole			86-74-8	
4-Chloro-3-methylphenol			59-50-7	
4-Chloroaniline			106-47-8	
2-Chloronaphthalene			91-58-7	
2-Chlorophenol			95-57-8	
4-Chlorophenyl phenyl ether			7005-72-3	
Chrysene			218-01-9	
Dibenz(a,h)anthracene			53-70-3	
Dibenzofuran			132-64-9	
3,3-Dichlorobenzidine			91-94-1	

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-A 1600780-MW-A 8/2/2016
Analyte	**Method**	**Units**	**CAS No.**	
2,4-Dichlorophenol			120-83-2	
Diethyl phthalate			84-66-2	
Dimethyl phthalate			131-11-3	
2,4-Dimethylphenol			105-67-9	
Di-n-butyl phthalate			84-74-2	
4,6-Dinitro-2-methylphenol			534-52-1	
2,4-Dinitrophenol			51-28-5	
2,4-Dinitrotoluene			121-14-2	
2,6-Dinitrotoluene			606-20-2	
Di-n-octyl phthalate			117-84-0	
Fluoranthene			206-44-0	
Fluorene			86-73-7	
Hexachlorobenzene			118-74-1	
1,3-Hexachlorobutadiene (C-46)			87-68-3	
Hexachlorocyclopentadiene			77-47-4	
Hexachloroethane			67-72-1	
Indeno(1,2,3-cd)pyrene			193-39-5	
Isophorone			78-59-1	
2-Methylnaphthalene			91-57-6	
2-Methylphenol (o-Cresol)			95-48-7	
3,4-Methylphenol (m,p-Cresol)			108394/106445	
Naphthalene			91-20-3	
2-Nitroaniline			88-74-4	
3-Nitroaniline			99-09-2	
4-Nitroaniline			100-01-6	
Nitrobenzene			98-95-3	

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-A 1600780-MW-A 8/2/2016
Analyte	**Method**	**Units**	**CAS No.**	
2-Nitrophenol			88-75-5	
4-Nitrophenol			100-02-7	
N-Nitrosodiphenylamine (NDFA)			86-30-6	
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	
Pentachlorophenol			87-86-5	
Phenanthrene			85-01-8	
Phenol			108-95-2	
Pyrene			129-00-0	
2,4,5-Trichlorophenol			95-95-4	
2,4,6-Trichlorophenol			88-06-2	
Metals - Total	SW 6010C	ug/L		
Antimony			7440-36-0	< 20
Arsenic			7440-38-2	**25**
Beryllium			7440-41-7	**0.67 J**
Cadmium			7440-43-9	< 5
Calcium			7440-70-2	**270000**
Chromium			7440-47-3	**8.2 J**
Copper			7440-50-8	**13 J**
Iron			7439-89-6	**56000**
Lead			7439-92-1	**18**
Magnesium			7439-95-4	**76000**
Manganese			7439-96-5	**1700**
Mercury			7439-97-6	< 0.2
Nickel			7440-02-0	**25 J**
Potassium			7440-09-7	**1800**
Selenium			7782-49-2	< 20

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-A 1600780-MW-A 8/2/2016
Analyte	**Method**	**Units**	**CAS No.**	
Silver			7440-22-4	< 10
Sodium			7440-23-5	**85000**
Thallium			7440-28-0	< 25
Zinc			7440-66-6	**22**
Metals - Dissolved	SW 6010C	ug/L		
Antimony			7440-36-0	< 20
Arsenic			7440-38-2	**21**
Beryllium			7440-41-7	< 4
Cadmium			7440-43-9	< 5
Calcium			7440-70-2	**240000**
Chromium			7440-47-3	**3.1 J**
Copper			7440-50-8	**3.2 J**
Iron			7439-89-6	**44000**
Lead			7439-92-1	< 10
Magnesium			7439-95-4	**66000**
Manganese			7439-96-5	**1200**
Mercury			7439-97-6	
Nickel			7440-02-0	**7.7 J**
Potassium			7440-09-7	**1200**
Selenium			7782-49-2	< 20
Silver			7440-22-4	< 10
Sodium			7440-23-5	**79000**
Thallium			7440-28-0	< 25
Zinc			7440-66-6	**7.3 J**
Other				
Alkalinity	SM 2320B	mg/L	ALK	**760**

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-A 1600780-MW-A 8/2/2016
Analyte	**Method**	**Units**	**CAS No.**	
Ammonia	EPA 350.1	mg/L	7664-41-7	**0.73**
Bicarbonate alkalinity as CaCO3	SM 2320B	mg/L	HCO3	**760**
Bromide	EPA 300.0	mg/L	24959-67-9	**0.59**
Chloride	EPA 300.0	mg/L	16887-00-6	**120**
Nitrate as Nitrogen	EPA 300.0	mg/L	14797-55-8	< 0.05
Sulfate	EPA 300.0	mg/L	14808-79-8	**1.9**
Sulfide	EPA 376.1	mg/L	18496-25-8	< 1
Total Dissolved Solids	SM 2540C	mg/L	TDS	**1200**
Total Phosphorous	EPA 365.4	mg/L	7723-14-0	**0.41**

General Notes:
1. Analytes in blue are not detected in any sample.
2. Bolding indicates a detected result concentration.
3. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
4. mg/L = milligrams/liter.
5. ug/L = micrograms per liter or parts per billion (ppb).
6. CAS No. = Chemical Abstracts Service Number.
7. NT = The sample was not tested for this analyte.

Validation Qualifiers:
J The result is an estimated value.
R The result is rejected.
UJ The results was not detected at or above the reporting limit shown and the reporting limit is estimated.
+/- Result may be biased high/low, respectively.

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-C 1600780-MW-C 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Volatile Organic Compounds (VOCs)	SW 8260B	ug/L		
Acetone			67-64-1	< 500
Benzene			71-43-2	**12000**
Bromobenzene			108-86-1	< 50
Bromochloromethane			74-97-5	< 50
Bromodichloromethane			75-27-4	< 50
Bromoform			75-25-2	< 50
Bromomethane			74-83-9	< 250
n-Butylbenzene			104-51-8	< 50
sec-Butylbenzene			135-98-8	< 50
tert-Butylbenzene			98-06-6	< 50
Carbon disulfide			75-15-0	< 100
Carbon tetrachloride			56-23-5	< 50
Chlorobenzene			108-90-7	< 50
Chloroethane			75-00-3	< 250
Chloroform (Trichloromethane)			67-66-3	< 50
Chloromethane			74-87-3	< 50
2-Chlorotoluene (o-Chlorotoluene)			95-49-8	< 50
4-Chlorotoluene (p-Chlorotoluene)			106-43-4	< 50
p-Cymene (4-Isopropyltoluene)			99-87-6	< 50
Dibromochloromethane			124-48-1	< 50
Dibromomethane			74-95-3	< 50
Dichlorodifluoromethane (Freon 12)			75-71-8	< 50
1,1-Dichloroethane			75-34-3	< 50
1,2-Dichloroethane			107-06-2	< 50
1,1-Dichloroethene			75-35-4	< 50

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-C 1600780-MW-C 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Total 1,2-Dichloroethene			540-59-0	< 100
cis-1,2-Dichloroethene			156-59-2	< 50
trans-1,2-Dichloroethene			156-60-5	< 50
1,2-Dichloropropane			78-87-5	< 50
1,3-Dichloropropane			142-28-9	< 50
2,2-Dichloropropane			594-20-7	< 50
1,1-Dichloropropene			563-58-6	< 50
cis-1,3-Dichloropropene			10061-01-5	< 50
trans-1,3-Dichloropropene			10061-02-6	< 50
Ethylbenzene			100-41-4	**3100**
2-Hexanone			591-78-6	< 500
Isopropylbenzene			98-82-8	**97**
Methyl ethyl ketone (2-Butanone)			78-93-3	< 500
Methyl tert-butyl ether (MTBE)			1634-04-4	< 500
4-Methyl-2-pentanone (MIBK)			108-10-1	< 500
Methylene chloride			75-09-2	< 250
n-Propylbenzene			103-65-1	**270**
Styrene			100-42-5	< 50
1,1,1,2-Tetrachloroethane			630-20-6	< 50
1,1,2,2-Tetrachloroethane			79-34-5	< 50
Tetrachloroethene (PCE)			127-18-4	< 50
Toluene			108-88-3	**7100**
1,2,3-Trichlorobenzene			87-61-6	< 250
1,1,1-Trichloroethane (TCA)			71-55-6	< 50
1,1,2-Trichloroethane			79-00-5	< 50
Trichloroethene (TCE)			79-01-6	< 50

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-C 1600780-MW-C 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Trichlorofluoromethane (Freon 11)			75-69-4	< 50
1,2,4-Trimethylbenzene			95-63-6	**2000**
1,3,5-Trimethylbenzene			108-67-8	**590**
Vinyl acetate			108-05-4	< 100
Vinyl chloride			75-01-4	< 50
o-Xylene			95-47-6	**3700**
m/p-Xylene			179601-23-1	**8600**
Total Xylene			1330-20-7	**12000**
Semi-Volatile Organic Compounds (SVOCs)	SW 8270D	ug/L		
Acenaphthene			83-32-9	< 1.9
Acenaphthylene			208-96-8	< 1.9
Acetophenone			98-86-2	**27**
Anthracene			120-12-7	< 1.9
Atrazine			1912-24-9	< 38
Benzaldehyde			100-52-7	< 9.6
Benzo(a)anthracene			56-55-3	< 1.9
Benzo(b)fluoranthene			205-99-2	< 1.9
Benzo(k)fluoranthene			207-08-9	< 1.9
Benzo(g,h,i)perylene			191-24-2	< 1.9
Benzo(a)pyrene			50-32-8	< 1.9
Biphenyl (1,1-Biphenyl)			92-52-4	< 9.6
Bis(2-chloroethoxy)methane			111-91-1	< 9.6
Bis(2-chloroethyl)ether			111-44-4	< 9.6
2,2-oxybis(1-Chloropropane)			108-60-1	< 9.6
Bis(2-ethylhexyl)phthalate			117-81-7	< 48
4-Bromophenyl phenyl ether			101-55-3	< 9.6

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
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			Location Name Sample Name Sample Date Parent Sample	MW-C 1600780-MW-C 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Butyl benzyl phthalate			85-68-7	< 9.6
Caprolactam			105-60-2	< 9.6
Carbazole			86-74-8	< 19
4-Chloro-3-methylphenol			59-50-7	< 9.6
4-Chloroaniline			106-47-8	< 38
2-Chloronaphthalene			91-58-7	< 9.6
2-Chlorophenol			95-57-8	< 9.6
4-Chlorophenyl phenyl ether			7005-72-3	< 9.6
Chrysene			218-01-9	< 1.9
Dibenz(a,h)anthracene			53-70-3	< 1.9
Dibenzofuran			132-64-9	< 9.6
3,3-Dichlorobenzidine			91-94-1	< 190
2,4-Dichlorophenol			120-83-2	< 9.6
Diethyl phthalate			84-66-2	< 9.6
Dimethyl phthalate			131-11-3	< 9.6
2,4-Dimethylphenol			105-67-9	**170 J-**
Di-n-butyl phthalate			84-74-2	< 9.6
4,6-Dinitro-2-methylphenol			534-52-1	< 48
2,4-Dinitrophenol			51-28-5	< 96
2,4-Dinitrotoluene			121-14-2	< 9.6
2,6-Dinitrotoluene			606-20-2	< 9.6
Di-n-octyl phthalate			117-84-0	< 9.6
Fluoranthene			206-44-0	< 1.9
Fluorene			86-73-7	< 1.9
Hexachlorobenzene			118-74-1	< 9.6
1,3-Hexachlorobutadiene (C-46)			87-68-3	< 9.6

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-C 1600780-MW-C 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Hexachlorocyclopentadiene			77-47-4	19 R
Hexachloroethane			67-72-1	< 9.6
Indeno(1,2,3-cd)pyrene			193-39-5	< 1.9
Isophorone			78-59-1	< 9.6
2-Methylnaphthalene			91-57-6	**67**
2-Methylphenol (o-Cresol)			95-48-7	**130**
3,4-Methylphenol (m,p-Cresol)			108394/106445	**230 J-**
Naphthalene			91-20-3	**250**
2-Nitroaniline			88-74-4	< 9.6
3-Nitroaniline			99-09-2	< 48
4-Nitroaniline			100-01-6	< 48
Nitrobenzene			98-95-3	< 9.6
2-Nitrophenol			88-75-5	< 9.6
4-Nitrophenol			100-02-7	< 77
N-Nitrosodiphenylamine (NDFA)			86-30-6	< 9.6
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	< 9.6
Pentachlorophenol			87-86-5	< 48
Phenanthrene			85-01-8	< 1.9
Phenol			108-95-2	**75 J-**
Pyrene			129-00-0	< 1.9
2,4,5-Trichlorophenol			95-95-4	< 9.6
2,4,6-Trichlorophenol			88-06-2	< 9.6
Semi-Volatile Organic Compounds (SVOCs) - Dissolved	SW 8270D	ug/L		
Acenaphthene			83-32-9	< 1.9
Acenaphthylene			208-96-8	< 1.9
Acetophenone			98-86-2	< 9.6

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-C 1600780-MW-C 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Anthracene			120-12-7	< 1.9
Atrazine			1912-24-9	< 38
Benzaldehyde			100-52-7	< 9.6
Benzo(a)anthracene			56-55-3	< 1.9
Benzo(b)fluoranthene			205-99-2	< 1.9
Benzo(k)fluoranthene			207-08-9	< 1.9
Benzo(g,h,i)perylene			191-24-2	< 1.9
Benzo(a)pyrene			50-32-8	< 1.9
Biphenyl (1,1-Biphenyl)			92-52-4	< 9.6
Bis(2-chloroethoxy)methane			111-91-1	< 9.6
Bis(2-chloroethyl)ether			111-44-4	< 9.6
2,2-oxybis(1-Chloropropane)			108-60-1	< 9.6
Bis(2-ethylhexyl)phthalate			117-81-7	< 48
4-Bromophenyl phenyl ether			101-55-3	< 9.6
Butyl benzyl phthalate			85-68-7	< 9.6
Caprolactam			105-60-2	< 9.6
Carbazole			86-74-8	< 19
4-Chloro-3-methylphenol			59-50-7	< 9.6
4-Chloroaniline			106-47-8	< 38
2-Chloronaphthalene			91-58-7	< 9.6
2-Chlorophenol			95-57-8	< 9.6
4-Chlorophenyl phenyl ether			7005-72-3	< 9.6
Chrysene			218-01-9	< 1.9
Dibenz(a,h)anthracene			53-70-3	< 1.9
Dibenzofuran			132-64-9	< 9.6
3,3-Dichlorobenzidine			91-94-1	< 190

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-C 1600780-MW-C 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
2,4-Dichlorophenol			120-83-2	< 9.6
Diethyl phthalate			84-66-2	< 9.6
Dimethyl phthalate			131-11-3	< 9.6
2,4-Dimethylphenol			105-67-9	**230 J+**
Di-n-butyl phthalate			84-74-2	< 9.6
4,6-Dinitro-2-methylphenol			534-52-1	< 48
2,4-Dinitrophenol			51-28-5	< 96
2,4-Dinitrotoluene			121-14-2	< 9.6
2,6-Dinitrotoluene			606-20-2	< 9.6
Di-n-octyl phthalate			117-84-0	< 9.6
Fluoranthene			206-44-0	< 1.9
Fluorene			86-73-7	< 1.9
Hexachlorobenzene			118-74-1	< 9.6
1,3-Hexachlorobutadiene (C-46)			87-68-3	< 9.6
Hexachlorocyclopentadiene			77-47-4	19 R
Hexachloroethane			67-72-1	< 9.6
Indeno(1,2,3-cd)pyrene			193-39-5	< 1.9
Isophorone			78-59-1	< 9.6
2-Methylnaphthalene			91-57-6	**36**
2-Methylphenol (o-Cresol)			95-48-7	**150**
3,4-Methylphenol (m,p-Cresol)			108394/106445	**310 J+**
Naphthalene			91-20-3	**180**
2-Nitroaniline			88-74-4	< 9.6
3-Nitroaniline			99-09-2	< 48
4-Nitroaniline			100-01-6	< 48
Nitrobenzene			98-95-3	< 9.6

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-C 1600780-MW-C 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
2-Nitrophenol			88-75-5	< 9.6
4-Nitrophenol			100-02-7	< 76
N-Nitrosodiphenylamine (NDFA)			86-30-6	< 9.6
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	< 9.6
Pentachlorophenol			87-86-5	< 48
Phenanthrene			85-01-8	< 1.9
Phenol			108-95-2	**91 J+**
Pyrene			129-00-0	< 1.9
2,4,5-Trichlorophenol			95-95-4	< 9.6
2,4,6-Trichlorophenol			88-06-2	< 9.6
Metals - Total	SW 6010C	ug/L		
Antimony			7440-36-0	< 20
Arsenic			7440-38-2	**17 J**
Beryllium			7440-41-7	< 4
Cadmium			7440-43-9	< 5
Calcium			7440-70-2	**330000**
Chromium			7440-47-3	< 10
Copper			7440-50-8	< 20
Iron			7439-89-6	**23000 J+**
Lead			7439-92-1	< 10
Magnesium			7439-95-4	**77000**
Manganese			7439-96-5	**4300**
Mercury			7439-97-6	< 0.2
Nickel			7440-02-0	**7.1 J**
Potassium			7440-09-7	**1000 J-**
Selenium			7782-49-2	< 20

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-C 1600780-MW-C 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Silver			7440-22-4	< 10
Sodium			7440-23-5	**210000**
Thallium			7440-28-0	< 25
Zinc			7440-66-6	< 20
Metals - Dissolved	SW 6010C	ug/L		
Antimony			7440-36-0	< 20
Arsenic			7440-38-2	**21**
Beryllium			7440-41-7	< 4
Cadmium			7440-43-9	< 5
Calcium			7440-70-2	**350000**
Chromium			7440-47-3	**1.9 J**
Copper			7440-50-8	< 20
Iron			7439-89-6	**22000 J+**
Lead			7439-92-1	< 10
Magnesium			7439-95-4	**77000**
Manganese			7439-96-5	**3800**
Mercury			7439-97-6	< 0.2
Nickel			7440-02-0	**7.7 J**
Potassium			7440-09-7	**1500 J+**
Selenium			7782-49-2	< 20
Silver			7440-22-4	< 10
Sodium			7440-23-5	**240000**
Thallium			7440-28-0	< 25
Zinc			7440-66-6	< 20
Other				
Alkalinity	SM 2320B	mg/L	ALK	**370**

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-C 1600780-MW-C 8/4/2016
Analyte	**Method**	**Units**	**CAS No.**	
Ammonia	EPA 350.1	mg/L	7664-41-7	< 0.25
Bicarbonate alkalinity as CaCO3	SM 2320B	mg/L	HCO3	**370**
Bromide	EPA 300.0	mg/L	24959-67-9	**1.2**
Chloride	EPA 300.0	mg/L	16887-00-6	**880**
Nitrate as Nitrogen	EPA 300.0	mg/L	14797-55-8	**0.11**
Sulfate	EPA 300.0	mg/L	14808-79-8	< 1
Sulfide	EPA 376.1	mg/L	18496-25-8	< 1
Total Dissolved Solids	SM 2540C	mg/L	TDS	**2600**
Total Phosphorous	EPA 365.4	mg/L	7723-14-0	**0.11**

General Notes:
1. Analytes in blue are not detected in any sample.
2. Bolding indicates a detected result concentration.
3. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
4. mg/L = milligrams/liter.
5. ug/L = micrograms per liter or parts per billion (ppb).
6. CAS No. = Chemical Abstracts Service Number.
7. NT = The sample was not tested for this analyte.

Validation Qualifiers:
J The result is an estimated value.
R The result is rejected.
UJ The results was not detected at or above the reporting limit shown and the reporting limit is estimated.
+/- Result may be biased high/low, respectively.

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-D 1600780-MW-D 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Volatile Organic Compounds (VOCs)	SW 8260B	ug/L		
Acetone			67-64-1	**51**
Benzene			71-43-2	**510**
Bromobenzene			108-86-1	< 5
Bromochloromethane			74-97-5	< 5
Bromodichloromethane			75-27-4	< 5
Bromoform			75-25-2	< 5
Bromomethane			74-83-9	< 25
n-Butylbenzene			104-51-8	< 5
sec-Butylbenzene			135-98-8	< 5
tert-Butylbenzene			98-06-6	< 5
Carbon disulfide			75-15-0	< 10
Carbon tetrachloride			56-23-5	< 5
Chlorobenzene			108-90-7	< 5
Chloroethane			75-00-3	< 25
Chloroform (Trichloromethane)			67-66-3	< 5
Chloromethane			74-87-3	< 5
2-Chlorotoluene (o-Chlorotoluene)			95-49-8	< 5
4-Chlorotoluene (p-Chlorotoluene)			106-43-4	< 5
p-Cymene (4-Isopropyltoluene)			99-87-6	< 5
Dibromochloromethane			124-48-1	< 5
Dibromomethane			74-95-3	< 5
Dichlorodifluoromethane (Freon 12)			75-71-8	< 5
1,1-Dichloroethane			75-34-3	< 5
1,2-Dichloroethane			107-06-2	< 5
1,1-Dichloroethene			75-35-4	< 5

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
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			Location Name Sample Name Sample Date Parent Sample	MW-D 1600780-MW-D 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Total 1,2-Dichloroethene			540-59-0	< 10
cis-1,2-Dichloroethene			156-59-2	< 5
trans-1,2-Dichloroethene			156-60-5	< 5
1,2-Dichloropropane			78-87-5	< 5
1,3-Dichloropropane			142-28-9	< 5
2,2-Dichloropropane			594-20-7	< 5
1,1-Dichloropropene			563-58-6	< 5
cis-1,3-Dichloropropene			10061-01-5	< 5
trans-1,3-Dichloropropene			10061-02-6	< 5
Ethylbenzene			100-41-4	**160**
2-Hexanone			591-78-6	< 50
Isopropylbenzene			98-82-8	**5.5**
Methyl ethyl ketone (2-Butanone)			78-93-3	< 50
Methyl tert-butyl ether (MTBE)			1634-04-4	< 50
4-Methyl-2-pentanone (MIBK)			108-10-1	< 50
Methylene chloride			75-09-2	< 25
n-Propylbenzene			103-65-1	**12**
Styrene			100-42-5	< 5
1,1,1,2-Tetrachloroethane			630-20-6	< 5
1,1,2,2-Tetrachloroethane			79-34-5	< 5
Tetrachloroethene (PCE)			127-18-4	< 5
Toluene			108-88-3	**9.9**
1,2,3-Trichlorobenzene			87-61-6	< 25
1,1,1-Trichloroethane (TCA)			71-55-6	< 5
1,1,2-Trichloroethane			79-00-5	< 5
Trichloroethene (TCE)			79-01-6	< 5

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-D 1600780-MW-D 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Trichlorofluoromethane (Freon 11)			75-69-4	< 5
1,2,4-Trimethylbenzene			95-63-6	**99**
1,3,5-Trimethylbenzene			108-67-8	< 5
Vinyl acetate			108-05-4	< 10
Vinyl chloride			75-01-4	< 5
o-Xylene			95-47-6	**4.3 J**
m/p-Xylene			179601-23-1	**6**
Total Xylene			1330-20-7	**10**
Semi-Volatile Organic Compounds (SVOCs)	SW 8270D	ug/L		
Acenaphthene			83-32-9	0.2 UJ
Acenaphthylene			208-96-8	0.2 UJ
Acetophenone			98-86-2	1 UJ
Anthracene			120-12-7	0.2 UJ
Atrazine			1912-24-9	4 UJ
Benzaldehyde			100-52-7	1 UJ
Benzo(a)anthracene			56-55-3	0.2 UJ
Benzo(b)fluoranthene			205-99-2	0.2 UJ
Benzo(k)fluoranthene			207-08-9	0.2 UJ
Benzo(g,h,i)perylene			191-24-2	0.2 UJ
Benzo(a)pyrene			50-32-8	0.2 UJ
Biphenyl (1,1-Biphenyl)			92-52-4	1 UJ
Bis(2-chloroethoxy)methane			111-91-1	1 UJ
Bis(2-chloroethyl)ether			111-44-4	1 UJ
2,2-oxybis(1-Chloropropane)			108-60-1	1 UJ
Bis(2-ethylhexyl)phthalate			117-81-7	5 UJ
4-Bromophenyl phenyl ether			101-55-3	1 UJ

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			Location Name Sample Name Sample Date Parent Sample	MW-D 1600780-MW-D 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Butyl benzyl phthalate			85-68-7	1 UJ
Caprolactam			105-60-2	1 UJ
Carbazole			86-74-8	2 UJ
4-Chloro-3-methylphenol			59-50-7	< 1
4-Chloroaniline			106-47-8	4 UJ
2-Chloronaphthalene			91-58-7	1 UJ
2-Chlorophenol			95-57-8	< 1
4-Chlorophenyl phenyl ether			7005-72-3	1 UJ
Chrysene			218-01-9	0.2 UJ
Dibenz(a,h)anthracene			53-70-3	0.2 UJ
Dibenzofuran			132-64-9	1 UJ
3,3-Dichlorobenzidine			91-94-1	20 R
2,4-Dichlorophenol			120-83-2	**0.15 J**
Diethyl phthalate			84-66-2	1 UJ
Dimethyl phthalate			131-11-3	1 UJ
2,4-Dimethylphenol			105-67-9	**0.69 J**
Di-n-butyl phthalate			84-74-2	1 UJ
4,6-Dinitro-2-methylphenol			534-52-1	< 5
2,4-Dinitrophenol			51-28-5	< 10
2,4-Dinitrotoluene			121-14-2	1 UJ
2,6-Dinitrotoluene			606-20-2	1 UJ
Di-n-octyl phthalate			117-84-0	1 UJ
Fluoranthene			206-44-0	0.2 UJ
Fluorene			86-73-7	0.2 UJ
Hexachlorobenzene			118-74-1	1 UJ
1,3-Hexachlorobutadiene (C-46)			87-68-3	1 UJ

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-D 1600780-MW-D 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Hexachlorocyclopentadiene			77-47-4	2 UJ
Hexachloroethane			67-72-1	1 UJ
Indeno(1,2,3-cd)pyrene			193-39-5	0.2 UJ
Isophorone			78-59-1	1 UJ
2-Methylnaphthalene			91-57-6	**0.46 J-**
2-Methylphenol (o-Cresol)			95-48-7	< 2
3,4-Methylphenol (m,p-Cresol)			108394/106445	**2**
Naphthalene			91-20-3	**1.7 J-**
2-Nitroaniline			88-74-4	1 UJ
3-Nitroaniline			99-09-2	5 UJ
4-Nitroaniline			100-01-6	5 UJ
Nitrobenzene			98-95-3	1 UJ
2-Nitrophenol			88-75-5	< 1
4-Nitrophenol			100-02-7	< 8
N-Nitrosodiphenylamine (NDFA)			86-30-6	1 UJ
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	1 UJ
Pentachlorophenol			87-86-5	< 5
Phenanthrene			85-01-8	0.2 UJ
Phenol			108-95-2	**3.5**
Pyrene			129-00-0	0.2 UJ
2,4,5-Trichlorophenol			95-95-4	< 1
2,4,6-Trichlorophenol			88-06-2	< 1
Semi-Volatile Organic Compounds (SVOCs) - Dissolved	SW 8270D	ug/L		NT
Acenaphthene			83-32-9	
Acenaphthylene			208-96-8	
Acetophenone			98-86-2	

Table 2. Laboratory Testing Results - Groundwater
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			Location Name Sample Name Sample Date Parent Sample	MW-D 1600780-MW-D 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Anthracene			120-12-7	
Atrazine			1912-24-9	
Benzaldehyde			100-52-7	
Benzo(a)anthracene			56-55-3	
Benzo(b)fluoranthene			205-99-2	
Benzo(k)fluoranthene			207-08-9	
Benzo(g,h,i)perylene			191-24-2	
Benzo(a)pyrene			50-32-8	
Biphenyl (1,1-Biphenyl)			92-52-4	
Bis(2-chloroethoxy)methane			111-91-1	
Bis(2-chloroethyl)ether			111-44-4	
2,2-oxybis(1-Chloropropane)			108-60-1	
Bis(2-ethylhexyl)phthalate			117-81-7	
4-Bromophenyl phenyl ether			101-55-3	
Butyl benzyl phthalate			85-68-7	
Caprolactam			105-60-2	
Carbazole			86-74-8	
4-Chloro-3-methylphenol			59-50-7	
4-Chloroaniline			106-47-8	
2-Chloronaphthalene			91-58-7	
2-Chlorophenol			95-57-8	
4-Chlorophenyl phenyl ether			7005-72-3	
Chrysene			218-01-9	
Dibenz(a,h)anthracene			53-70-3	
Dibenzofuran			132-64-9	
3,3-Dichlorobenzidine			91-94-1	

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-D 1600780-MW-D 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
2,4-Dichlorophenol			120-83-2	
Diethyl phthalate			84-66-2	
Dimethyl phthalate			131-11-3	
2,4-Dimethylphenol			105-67-9	
Di-n-butyl phthalate			84-74-2	
4,6-Dinitro-2-methylphenol			534-52-1	
2,4-Dinitrophenol			51-28-5	
2,4-Dinitrotoluene			121-14-2	
2,6-Dinitrotoluene			606-20-2	
Di-n-octyl phthalate			117-84-0	
Fluoranthene			206-44-0	
Fluorene			86-73-7	
Hexachlorobenzene			118-74-1	
1,3-Hexachlorobutadiene (C-46)			87-68-3	
Hexachlorocyclopentadiene			77-47-4	
Hexachloroethane			67-72-1	
Indeno(1,2,3-cd)pyrene			193-39-5	
Isophorone			78-59-1	
2-Methylnaphthalene			91-57-6	
2-Methylphenol (o-Cresol)			95-48-7	
3,4-Methylphenol (m,p-Cresol)			108394/106445	
Naphthalene			91-20-3	
2-Nitroaniline			88-74-4	
3-Nitroaniline			99-09-2	
4-Nitroaniline			100-01-6	
Nitrobenzene			98-95-3	

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-D 1600780-MW-D 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
2-Nitrophenol			88-75-5	
4-Nitrophenol			100-02-7	
N-Nitrosodiphenylamine (NDFA)			86-30-6	
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	
Pentachlorophenol			87-86-5	
Phenanthrene			85-01-8	
Phenol			108-95-2	
Pyrene			129-00-0	
2,4,5-Trichlorophenol			95-95-4	
2,4,6-Trichlorophenol			88-06-2	
Metals - Total	SW 6010C	ug/L		
Antimony			7440-36-0	< 20
Arsenic			7440-38-2	10 J
Beryllium			7440-41-7	< 4
Cadmium			7440-43-9	< 5
Calcium			7440-70-2	**130000**
Chromium			7440-47-3	< 10
Copper			7440-50-8	**2.3 J**
Iron			7439-89-6	**3200**
Lead			7439-92-1	< 10
Magnesium			7439-95-4	**25000**
Manganese			7439-96-5	**900**
Mercury			7439-97-6	< 0.2
Nickel			7440-02-0	**5.4 J**
Potassium			7440-09-7	**780 J**
Selenium			7782-49-2	< 20

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-D 1600780-MW-D 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Silver			7440-22-4	< 10
Sodium			7440-23-5	**84000**
Thallium			7440-28-0	< 25
Zinc			7440-66-6	**7 J**
Metals - Dissolved	SW 6010C	ug/L		NT
Antimony			7440-36-0	
Arsenic			7440-38-2	
Beryllium			7440-41-7	
Cadmium			7440-43-9	
Calcium			7440-70-2	
Chromium			7440-47-3	
Copper			7440-50-8	
Iron			7439-89-6	
Lead			7439-92-1	
Magnesium			7439-95-4	
Manganese			7439-96-5	
Mercury			7439-97-6	
Nickel			7440-02-0	
Potassium			7440-09-7	
Selenium			7782-49-2	
Silver			7440-22-4	
Sodium			7440-23-5	
Thallium			7440-28-0	
Zinc			7440-66-6	
Other				
Alkalinity	SM 2320B	mg/L	ALK	**490**

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	MW-D 1600780-MW-D 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Ammonia	EPA 350.1	mg/L	7664-41-7	**0.92 J+**
Bicarbonate alkalinity as CaCO3	SM 2320B	mg/L	HCO3	**490**
Bromide	EPA 300.0	mg/L	24959-67-9	**0.29 J**
Chloride	EPA 300.0	mg/L	16887-00-6	**39**
Nitrate as Nitrogen	EPA 300.0	mg/L	14797-55-8	< 0.05
Sulfate	EPA 300.0	mg/L	14808-79-8	**20**
Sulfide	EPA 376.1	mg/L	18496-25-8	< 1
Total Dissolved Solids	SM 2540C	mg/L	TDS	**620**
Total Phosphorous	EPA 365.4	mg/L	7723-14-0	**10**

General Notes:
1. Analytes in blue are not detected in any sample.
2. Bolding indicates a detected result concentration.
3. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
4. mg/L = milligrams/liter.
5. ug/L = micrograms per liter or parts per billion (ppb).
6. CAS No. = Chemical Abstracts Service Number.
7. NT = The sample was not tested for this analyte.

Validation Qualifiers:
J The result is an estimated value.
R The result is rejected.
UJ The results was not detected at or above the reporting limit shown and the reporting limit is estimated.
+/- Result may be biased high/low, respectively.

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	RW-01 1600780-RW-1 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Volatile Organic Compounds (VOCs)	SW 8260B	ug/L		
Acetone			67-64-1	
Benzene			71-43-2	
Bromobenzene			108-86-1	
Bromochloromethane			74-97-5	
Bromodichloromethane			75-27-4	
Bromoform			75-25-2	
Bromomethane			74-83-9	
n-Butylbenzene			104-51-8	
sec-Butylbenzene			135-98-8	
tert-Butylbenzene			98-06-6	
Carbon disulfide			75-15-0	
Carbon tetrachloride			56-23-5	
Chlorobenzene			108-90-7	
Chloroethane			75-00-3	
Chloroform (Trichloromethane)			67-66-3	
Chloromethane			74-87-3	
2-Chlorotoluene (o-Chlorotoluene)			95-49-8	
4-Chlorotoluene (p-Chlorotoluene)			106-43-4	
p-Cymene (4-Isopropyltoluene)			99-87-6	
Dibromochloromethane			124-48-1	
Dibromomethane			74-95-3	
Dichlorodifluoromethane (Freon 12)			75-71-8	
1,1-Dichloroethane			75-34-3	
1,2-Dichloroethane			107-06-2	
1,1-Dichloroethene			75-35-4	

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	RW-01 1600780-RW-1 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Total 1,2-Dichloroethene			540-59-0	
cis-1,2-Dichloroethene			156-59-2	
trans-1,2-Dichloroethene			156-60-5	
1,2-Dichloropropane			78-87-5	
1,3-Dichloropropane			142-28-9	
2,2-Dichloropropane			594-20-7	
1,1-Dichloropropene			563-58-6	
cis-1,3-Dichloropropene			10061-01-5	
trans-1,3-Dichloropropene			10061-02-6	
Ethylbenzene			100-41-4	
2-Hexanone			591-78-6	
Isopropylbenzene			98-82-8	
Methyl ethyl ketone (2-Butanone)			78-93-3	
Methyl tert-butyl ether (MTBE)			1634-04-4	
4-Methyl-2-pentanone (MIBK)			108-10-1	
Methylene chloride			75-09-2	
n-Propylbenzene			103-65-1	
Styrene			100-42-5	
1,1,1,2-Tetrachloroethane			630-20-6	
1,1,2,2-Tetrachloroethane			79-34-5	
Tetrachloroethene (PCE)			127-18-4	
Toluene			108-88-3	
1,2,3-Trichlorobenzene			87-61-6	
1,1,1-Trichloroethane (TCA)			71-55-6	
1,1,2-Trichloroethane			79-00-5	
Trichloroethene (TCE)			79-01-6	

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	RW-01 1600780-RW-1 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Trichlorofluoromethane (Freon 11)			75-69-4	
1,2,4-Trimethylbenzene			95-63-6	
1,3,5-Trimethylbenzene			108-67-8	
Vinyl acetate			108-05-4	
Vinyl chloride			75-01-4	
o-Xylene			95-47-6	
m/p-Xylene			179601-23-1	
Total Xylene			1330-20-7	
Semi-Volatile Organic Compounds (SVOCs)	SW 8270D	ug/L		
Acenaphthene			83-32-9	< 2.1
Acenaphthylene			208-96-8	< 2.1
Acetophenone			98-86-2	< 10
Anthracene			120-12-7	< 2.1
Atrazine			1912-24-9	41 UJ
Benzaldehyde			100-52-7	< 10
Benzo(a)anthracene			56-55-3	< 2.1
Benzo(b)fluoranthene			205-99-2	< 2.1
Benzo(k)fluoranthene			207-08-9	< 2.1
Benzo(g,h,i)perylene			191-24-2	< 2.1
Benzo(a)pyrene			50-32-8	< 2.1
Biphenyl (1,1-Biphenyl)			92-52-4	< 10
Bis(2-chloroethoxy)methane			111-91-1	< 10
Bis(2-chloroethyl)ether			111-44-4	< 10
2,2-oxybis(1-Chloropropane)			108-60-1	< 10
Bis(2-ethylhexyl)phthalate			117-81-7	< 52
4-Bromophenyl phenyl ether			101-55-3	< 10

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	RW-01 1600780-RW-1 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Butyl benzyl phthalate			85-68-7	< 10
Caprolactam			105-60-2	< 10
Carbazole			86-74-8	< 21
4-Chloro-3-methylphenol			59-50-7	< 10
4-Chloroaniline			106-47-8	< 41
2-Chloronaphthalene			91-58-7	< 10
2-Chlorophenol			95-57-8	< 10
4-Chlorophenyl phenyl ether			7005-72-3	< 10
Chrysene			218-01-9	< 2.1
Dibenz(a,h)anthracene			53-70-3	< 2.1
Dibenzofuran			132-64-9	< 10
3,3-Dichlorobenzidine			91-94-1	210 R
2,4-Dichlorophenol			120-83-2	< 10
Diethyl phthalate			84-66-2	< 10
Dimethyl phthalate			131-11-3	< 10
2,4-Dimethylphenol			105-67-9	**30**
Di-n-butyl phthalate			84-74-2	< 10
4,6-Dinitro-2-methylphenol			534-52-1	< 52
2,4-Dinitrophenol			51-28-5	< 100
2,4-Dinitrotoluene			121-14-2	< 10
2,6-Dinitrotoluene			606-20-2	< 10
Di-n-octyl phthalate			117-84-0	< 10
Fluoranthene			206-44-0	< 2.1
Fluorene			86-73-7	< 2.1
Hexachlorobenzene			118-74-1	< 10
1,3-Hexachlorobutadiene (C-46)			87-68-3	< 10

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	RW-01 1600780-RW-1 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Hexachlorocyclopentadiene			77-47-4	< 21
Hexachloroethane			67-72-1	< 10
Indeno(1,2,3-cd)pyrene			193-39-5	< 2.1
Isophorone			78-59-1	< 10
2-Methylnaphthalene			91-57-6	**39**
2-Methylphenol (o-Cresol)			95-48-7	**30**
3,4-Methylphenol (m,p-Cresol)			108394/106445	**35**
Naphthalene			91-20-3	**150**
2-Nitroaniline			88-74-4	< 10
3-Nitroaniline			99-09-2	< 52
4-Nitroaniline			100-01-6	< 52
Nitrobenzene			98-95-3	< 10
2-Nitrophenol			88-75-5	< 10
4-Nitrophenol			100-02-7	< 83
N-Nitrosodiphenylamine (NDFA)			86-30-6	< 10
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	< 10
Pentachlorophenol			87-86-5	< 52
Phenanthrene			85-01-8	< 2.1
Phenol			108-95-2	**32**
Pyrene			129-00-0	< 2.1
2,4,5-Trichlorophenol			95-95-4	< 10
2,4,6-Trichlorophenol			88-06-2	< 10
Semi-Volatile Organic Compounds (SVOCs) - Dissolved	SW 8270D	ug/L		NT
Acenaphthene			83-32-9	
Acenaphthylene			208-96-8	
Acetophenone			98-86-2	

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	RW-01 1600780-RW-1 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Anthracene			120-12-7	
Atrazine			1912-24-9	
Benzaldehyde			100-52-7	
Benzo(a)anthracene			56-55-3	
Benzo(b)fluoranthene			205-99-2	
Benzo(k)fluoranthene			207-08-9	
Benzo(g,h,i)perylene			191-24-2	
Benzo(a)pyrene			50-32-8	
Biphenyl (1,1-Biphenyl)			92-52-4	
Bis(2-chloroethoxy)methane			111-91-1	
Bis(2-chloroethyl)ether			111-44-4	
2,2-oxybis(1-Chloropropane)			108-60-1	
Bis(2-ethylhexyl)phthalate			117-81-7	
4-Bromophenyl phenyl ether			101-55-3	
Butyl benzyl phthalate			85-68-7	
Caprolactam			105-60-2	
Carbazole			86-74-8	
4-Chloro-3-methylphenol			59-50-7	
4-Chloroaniline			106-47-8	
2-Chloronaphthalene			91-58-7	
2-Chlorophenol			95-57-8	
4-Chlorophenyl phenyl ether			7005-72-3	
Chrysene			218-01-9	
Dibenz(a,h)anthracene			53-70-3	
Dibenzofuran			132-64-9	
3,3-Dichlorobenzidine			91-94-1	

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	RW-01 1600780-RW-1 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
2,4-Dichlorophenol			120-83-2	
Diethyl phthalate			84-66-2	
Dimethyl phthalate			131-11-3	
2,4-Dimethylphenol			105-67-9	
Di-n-butyl phthalate			84-74-2	
4,6-Dinitro-2-methylphenol			534-52-1	
2,4-Dinitrophenol			51-28-5	
2,4-Dinitrotoluene			121-14-2	
2,6-Dinitrotoluene			606-20-2	
Di-n-octyl phthalate			117-84-0	
Fluoranthene			206-44-0	
Fluorene			86-73-7	
Hexachlorobenzene			118-74-1	
1,3-Hexachlorobutadiene (C-46)			87-68-3	
Hexachlorocyclopentadiene			77-47-4	
Hexachloroethane			67-72-1	
Indeno(1,2,3-cd)pyrene			193-39-5	
Isophorone			78-59-1	
2-Methylnaphthalene			91-57-6	
2-Methylphenol (o-Cresol)			95-48-7	
3,4-Methylphenol (m,p-Cresol)			108394/106445	
Naphthalene			91-20-3	
2-Nitroaniline			88-74-4	
3-Nitroaniline			99-09-2	
4-Nitroaniline			100-01-6	
Nitrobenzene			98-95-3	

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	RW-01 1600780-RW-1 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
2-Nitrophenol			88-75-5	
4-Nitrophenol			100-02-7	
N-Nitrosodiphenylamine (NDFA)			86-30-6	
N-Nitrosodi-n-propylamine (NDPA)			621-64-7	
Pentachlorophenol			87-86-5	
Phenanthrene			85-01-8	
Phenol			108-95-2	
Pyrene			129-00-0	
2,4,5-Trichlorophenol			95-95-4	
2,4,6-Trichlorophenol			88-06-2	
Metals - Total	SW 6010C	ug/L		
Antimony			7440-36-0	< 20
Arsenic			7440-38-2	**9.9 J**
Beryllium			7440-41-7	< 4
Cadmium			7440-43-9	< 5
Calcium			7440-70-2	**130000**
Chromium			7440-47-3	< 10
Copper			7440-50-8	**3.8 J**
Iron			7439-89-6	**6800**
Lead			7439-92-1	< 10
Magnesium			7439-95-4	**23000**
Manganese			7439-96-5	**3400**
Mercury			7439-97-6	< 0.2
Nickel			7440-02-0	**3.1 J**
Potassium			7440-09-7	**8800**
Selenium			7782-49-2	< 20

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	RW-01 1600780-RW-1 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Silver			7440-22-4	< 10
Sodium			7440-23-5	**150000**
Thallium			7440-28-0	< 25
Zinc			7440-66-6	< 20
Metals - Dissolved	SW 6010C	ug/L		NT
Antimony			7440-36-0	
Arsenic			7440-38-2	
Beryllium			7440-41-7	
Cadmium			7440-43-9	
Calcium			7440-70-2	
Chromium			7440-47-3	
Copper			7440-50-8	
Iron			7439-89-6	
Lead			7439-92-1	
Magnesium			7439-95-4	
Manganese			7439-96-5	
Mercury			7439-97-6	
Nickel			7440-02-0	
Potassium			7440-09-7	
Selenium			7782-49-2	
Silver			7440-22-4	
Sodium			7440-23-5	
Thallium			7440-28-0	
Zinc			7440-66-6	
Other				
Alkalinity	SM 2320B	mg/L	ALK	**620**

Table 2. Laboratory Testing Results - Groundwater
Groundwater Investigation Summary Report
Zill, LLC
Kansas City, Missouri

			Location Name Sample Name Sample Date Parent Sample	RW-01 1600780-RW-1 8/5/2016
Analyte	**Method**	**Units**	**CAS No.**	
Ammonia	EPA 350.1	mg/L	7664-41-7	**0.61 J+**
Bicarbonate alkalinity as CaCO3	SM 2320B	mg/L	HCO3	**620**
Bromide	EPA 300.0	mg/L	24959-67-9	**0.39 J**
Chloride	EPA 300.0	mg/L	16887-00-6	**94**
Nitrate as Nitrogen	EPA 300.0	mg/L	14797-55-8	< 0.05
Sulfate	EPA 300.0	mg/L	14808-79-8	**9.4**
Sulfide	EPA 376.1	mg/L	18496-25-8	< 1
Total Dissolved Solids	SM 2540C	mg/L	TDS	**870**
Total Phosphorous	EPA 365.4	mg/L	7723-14-0	**0.14**

General Notes:
1. Analytes in blue are not detected in any sample.
2. Bolding indicates a detected result concentration.
3. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
4. mg/L = milligrams/liter.
5. ug/L = micrograms per liter or parts per billion (ppb).
6. CAS No. = Chemical Abstracts Service Number.
7. NT = The sample was not tested for this analyte.

Validation Qualifiers:
J The result is an estimated value.
R The result is rejected.
UJ The results was not detected at or above the reporting limit shown and the reporting limit is estimated.
+/- Result may be biased high/low, respectively.

Figures

DRAFT Investigation Summary
Zill, LLC
Kansas City, MO

Baker Sterchi Cowden & Rice LLC
Kansas City, MO

GEI Consultants

Project 1600780

Site Plan with
Well Locations

September 2016

Figure 1

P:\ArcGIS\Baker_Sterchi\Zill\Zill_Site.mxd

ZILL004344

Attachment 1

Lab Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-128237-1
Client Project/Site: Zill LLC
Revision: 1

For:
GEI Consultants, Inc.
CentreGreen Two
4000 CentreGreen Way
Suite 180
Cary, North Carolina 27513

Attn: Brooke Bennett

Kathryn Smith

Authorized for release by:
9/30/2016 12:34:44 PM

Kathryn Smith, Project Manager II
(912)354-7858
kathy.smith@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
*	RPD of the LCS and LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Sample Summary

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128237-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-128237-1	1600780-FB-1	Water	08/02/16 15:05	08/03/16 09:35
680-128237-2	1600780-MW-A	Water	08/02/16 16:23	08/03/16 09:35
680-128237-3	Trip Blank	Water	08/02/16 00:00	08/03/16 09:35

Job ID: 680-128237-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE
Client: GEI Consultants, Inc.
Project: Zill LLC

Report Number: 680-128237-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT
The samples were received on 08/03/2016; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 4.4º C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)
Samples 1600780-FB-1 (680-128237-1) and Trip Blank (680-128237-3) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 08/04/2016.

Bromomethane exceeded the RPD limit for LCSD 680-444283/5.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with 444283.

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

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS) - LOW LEVEL
Sample 1600780-MW-A (680-128237-2) was analyzed for Semivolatile Organic Compounds (GC/MS) - Low level in accordance with EPA SW-846 Method 8270D. The samples were prepared on 08/04/2016 and analyzed on 08/05/2016 and 08/06/2016.

Several analytes recovered low for the MS of sample 1600780-MW-AMS (680-128237-2) in batch 680-444483. Several analytes recovered high.

For the MSD of sample 1600780-MW-AMSD (680-128237-2) in batch 680-444483, Several analytes recovered low. Benzaldehyde recovered high. Also, Several analytes exceeded the RPD limit.

The continuing calibration verification (CCV) analyzed in batch 680-444639 was outside the method criteria for the following analyte(s): Benzaldehyde and Caprolactam. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The continuing calibration verification (CCV) analyzed in batch 680-444483 was outside the method criteria for the following analyte(s): Atrazine, Benzaldehyde and Caprolactam. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Samples 1600780-MW-A (680-128237-2)[10X] and 1600780-MW-A (680-128237-2)[50X] required dilution prior to analysis. The reporting limits have been adjusted accordingly and surrogates were diluted out.

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

Job ID: 680-128237-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

DISSOLVED METALS (ICP)
Sample 1600780-MW-A (680-128237-2) was analyzed for dissolved metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 08/17/2016 and analyzed on 08/18/2016.

Calcium, Iron, Magnesium and Sodium recovered low for the MS/MSD of sample 1600780-MW-A (680-128237-2) in batch 680-446234.

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

METALS (ICP)
Sample 1600780-MW-A (680-128237-2) was analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 08/08/2016 and analyzed on 08/15/2016.

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

TOTAL MERCURY
Sample 1600780-MW-A (680-128237-2) was analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 08/05/2016.

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

ALKALINITY
Sample 1600780-MW-A (680-128237-2) was analyzed for alkalinity in accordance with SM 2320B. The samples were analyzed on 08/09/2016.

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

TOTAL DISSOLVED SOLIDS
Sample 1600780-MW-A (680-128237-2) was analyzed for total dissolved solids in accordance with SM 2540C. The samples were analyzed on 08/08/2016.

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

ANIONS BY ION CHROMATOGRAPHY (28 DAY)
Sample 1600780-MW-A (680-128237-2) was analyzed for Anions by Ion Chromatography (28 Day) in accordance with EPA Method 300.0. The samples were analyzed on 08/12/2016.

Chloride recovered low for the MSD of sample 1600780-MW-AMSD (680-128237-2) in batch 680-445467.

Sample 1600780-MW-A (680-128237-2)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

ANIONS BY ION CHROMATOGRAPHY (48 HOUR)
Sample 1600780-MW-A (680-128237-2) was analyzed for Anions by Ion Chromatography (48 Hour) in accordance with EPA Method 300.0. The samples were analyzed on 08/03/2016.

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

AMMONIA
Sample 1600780-MW-A (680-128237-2) was analyzed for ammonia in accordance with EPA Method 350.1. The samples were analyzed on 08/09/2016.

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

Job ID: 680-128237-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

TOTAL PHOSPHORUS

Sample 1600780-MW-A (680-128237-2) was analyzed for total phosphorus in accordance with EPA Method 365.4. The samples were prepared on 08/12/2016 and analyzed on 08/15/2016.

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

SULFIDE

Sample 1600780-MW-A (680-128237-2) was analyzed for sulfide in accordance with EPA Method 376.1. The samples were analyzed on 08/09/2016.

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

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128237-1

Client Sample ID: 1600780-FB-1

Date Collected: 08/02/16 15:05
Date Received: 08/03/16 09:35

Lab Sample ID: 680-128237-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	7.0	ug/L			08/04/16 15:09	1
Benzene	1.0	U	1.0	0.43	ug/L			08/04/16 15:09	1
Bromobenzene	1.0	U	1.0	0.50	ug/L			08/04/16 15:09	1
Bromochloromethane	1.0	U	1.0	0.45	ug/L			08/04/16 15:09	1
Bromodichloromethane	1.0	U	1.0	0.44	ug/L			08/04/16 15:09	1
Bromoform	1.0	U	1.0	0.43	ug/L			08/04/16 15:09	1
Bromomethane	5.0	U *	5.0	2.5	ug/L			08/04/16 15:09	1
2-Butanone (MEK)	10	U	10	3.4	ug/L			08/04/16 15:09	1
Carbon disulfide	2.0	U	2.0	1.0	ug/L			08/04/16 15:09	1
Carbon tetrachloride	1.0	U	1.0	0.33	ug/L			08/04/16 15:09	1
Chlorobenzene	1.0	U	1.0	0.26	ug/L			08/04/16 15:09	1
Chloroethane	5.0	U	5.0	2.5	ug/L			08/04/16 15:09	1
Chloroform	**0.76**	**J**	1.0	0.50	ug/L			08/04/16 15:09	1
Chloromethane	1.0	U	1.0	0.40	ug/L			08/04/16 15:09	1
2-Chlorotoluene	1.0	U	1.0	0.27	ug/L			08/04/16 15:09	1
4-Chlorotoluene	1.0	U	1.0	0.45	ug/L			08/04/16 15:09	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.41	ug/L			08/04/16 15:09	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.40	ug/L			08/04/16 15:09	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			08/04/16 15:09	1
Dibromomethane	1.0	U	1.0	0.35	ug/L			08/04/16 15:09	1
Dichlorodifluoromethane	1.0	U	1.0	0.60	ug/L			08/04/16 15:09	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			08/04/16 15:09	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			08/04/16 15:09	1
1,1-Dichloroethene	1.0	U	1.0	0.36	ug/L			08/04/16 15:09	1
1,2-Dichloroethene, Total	2.0	U	2.0	0.37	ug/L			08/04/16 15:09	1
1,2-Dichloropropane	1.0	U	1.0	0.67	ug/L			08/04/16 15:09	1
1,3-Dichloropropane	1.0	U	1.0	0.34	ug/L			08/04/16 15:09	1
2,2-Dichloropropane	1.0	U	1.0	0.37	ug/L			08/04/16 15:09	1
1,1-Dichloropropene	1.0	U	1.0	0.34	ug/L			08/04/16 15:09	1
Ethylbenzene	1.0	U	1.0	0.33	ug/L			08/04/16 15:09	1
2-Hexanone	10	U	10	2.0	ug/L			08/04/16 15:09	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			08/04/16 15:09	1
Methylene Chloride	5.0	U	5.0	2.5	ug/L			08/04/16 15:09	1
4-Methyl-2-pentanone	10	U	10	2.1	ug/L			08/04/16 15:09	1
Methyl tert-butyl ether	10	U	10	0.30	ug/L			08/04/16 15:09	1
m-Xylene & p-Xylene	1.0	U	1.0	0.35	ug/L			08/04/16 15:09	1
n-Butylbenzene	1.0	U	1.0	0.47	ug/L			08/04/16 15:09	1
N-Propylbenzene	1.0	U	1.0	0.38	ug/L			08/04/16 15:09	1
o-Xylene	1.0	U	1.0	0.23	ug/L			08/04/16 15:09	1
p-Isopropyltoluene	1.0	U	1.0	0.48	ug/L			08/04/16 15:09	1
sec-Butylbenzene	1.0	U	1.0	0.42	ug/L			08/04/16 15:09	1
Styrene	1.0	U	1.0	0.27	ug/L			08/04/16 15:09	1
tert-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/04/16 15:09	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/04/16 15:09	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.62	ug/L			08/04/16 15:09	1
Tetrachloroethene	1.0	U	1.0	0.74	ug/L			08/04/16 15:09	1
Toluene	1.0	U	1.0	0.48	ug/L			08/04/16 15:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.37	ug/L			08/04/16 15:09	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.42	ug/L			08/04/16 15:09	1

Client Sample ID: 1600780-FB-1

Lab Sample ID: 680-128237-1
Date Collected: 08/02/16 15:05
Matrix: Water
Date Received: 08/03/16 09:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	5.0	U	5.0	2.5	ug/L			08/04/16 15:09	1
1,1,1-Trichloroethane	1.0	U	1.0	0.37	ug/L			08/04/16 15:09	1
1,1,2-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/04/16 15:09	1
Trichloroethene	1.0	U	1.0	0.48	ug/L			08/04/16 15:09	1
Trichlorofluoromethane	1.0	U	1.0	0.42	ug/L			08/04/16 15:09	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.47	ug/L			08/04/16 15:09	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.31	ug/L			08/04/16 15:09	1
Vinyl acetate	2.0	U	2.0	0.81	ug/L			08/04/16 15:09	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			08/04/16 15:09	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			08/04/16 15:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*		*08/04/16 15:09*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 122*		*08/04/16 15:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*73 - 131*		*08/04/16 15:09*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*08/04/16 15:09*	*1*

Client Sample ID: 1600780-MW-A

Lab Sample ID: 680-128237-2
Date Collected: 08/02/16 16:23
Matrix: Water
Date Received: 08/03/16 09:35

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	2.0	U F1 F2	2.0	0.99	ug/L		08/04/16 15:13	08/05/16 17:43	10
Acenaphthylene	2.0	U F1 F2	2.0	0.99	ug/L		08/04/16 15:13	08/05/16 17:43	10
Acetophenone	**33**	**F1**	9.9	3.0	ug/L		08/04/16 15:13	08/05/16 17:43	10
Anthracene	2.0	U F1 F2	2.0	0.99	ug/L		08/04/16 15:13	08/05/16 17:43	10
Atrazine	40	U	40	20	ug/L		08/04/16 15:13	08/05/16 17:43	10
Benzaldehyde	9.9	U F1	9.9	0.99	ug/L		08/04/16 15:13	08/05/16 17:43	10
Benzo[a]anthracene	2.0	U F1 F2	2.0	0.99	ug/L		08/04/16 15:13	08/05/16 17:43	10
Benzo[a]pyrene	2.0	U F1 F2	2.0	0.99	ug/L		08/04/16 15:13	08/05/16 17:43	10
Benzo[b]fluoranthene	2.0	U F1 F2	2.0	0.99	ug/L		08/04/16 15:13	08/05/16 17:43	10
Benzo[g,h,i]perylene	2.0	U F1 F2	2.0	0.99	ug/L		08/04/16 15:13	08/05/16 17:43	10
Benzo[k]fluoranthene	2.0	U F1 F2	2.0	0.99	ug/L		08/04/16 15:13	08/05/16 17:43	10
1,1'-Biphenyl	9.9	U F1 F2	9.9	0.99	ug/L		08/04/16 15:13	08/05/16 17:43	10
Bis(2-chloroethoxy)methane	9.9	U F1 F2	9.9	0.99	ug/L		08/04/16 15:13	08/05/16 17:43	10
Bis(2-chloroethyl)ether	9.9	U F1 F2	9.9	0.99	ug/L		08/04/16 15:13	08/05/16 17:43	10
Bis(2-ethylhexyl) phthalate	50	U	50	20	ug/L		08/04/16 15:13	08/05/16 17:43	10
4-Bromophenyl phenyl ether	9.9	U F1 F2	9.9	1.2	ug/L		08/04/16 15:13	08/05/16 17:43	10
Butyl benzyl phthalate	9.9	U F1 F2	9.9	1.2	ug/L		08/04/16 15:13	08/05/16 17:43	10
Caprolactam	9.9	U F1	9.9	1.3	ug/L		08/04/16 15:13	08/05/16 17:43	10
Carbazole	20	U F1 F2	20	0.99	ug/L		08/04/16 15:13	08/05/16 17:43	10
4-Chloroaniline	40	U	40	20	ug/L		08/04/16 15:13	08/05/16 17:43	10
4-Chloro-3-methylphenol	9.9	U F1 F2	9.9	1.2	ug/L		08/04/16 15:13	08/05/16 17:43	10
2-Chloronaphthalene	9.9	U F1 F2	9.9	0.99	ug/L		08/04/16 15:13	08/05/16 17:43	10
2-Chlorophenol	9.9	U F1 F2	9.9	1.2	ug/L		08/04/16 15:13	08/05/16 17:43	10
4-Chlorophenyl phenyl ether	9.9	U F1 F2	9.9	0.99	ug/L		08/04/16 15:13	08/05/16 17:43	10
Chrysene	2.0	U F1 F2	2.0	0.45	ug/L		08/04/16 15:13	08/05/16 17:43	10
Dibenz(a,h)anthracene	2.0	U F1 F2	2.0	0.99	ug/L		08/04/16 15:13	08/05/16 17:43	10
Dibenzofuran	9.9	U F1 F2	9.9	0.99	ug/L		08/04/16 15:13	08/05/16 17:43	10

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128237-1

Client Sample ID: 1600780-MW-A

Date Collected: 08/02/16 16:23
Date Received: 08/03/16 09:35

Lab Sample ID: 680-128237-2

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	200	U	200	20	ug/L		08/04/16 15:13	08/05/16 17:43	10
2,4-Dichlorophenol	9.9	U F1 F2	9.9	0.99	ug/L		08/04/16 15:13	08/05/16 17:43	10
Diethyl phthalate	9.9	U F1 F2	9.9	1.1	ug/L		08/04/16 15:13	08/05/16 17:43	10
2,4-Dimethylphenol	**180**	**F2**	20	6.8	ug/L		08/04/16 15:13	08/05/16 17:43	10
Dimethyl phthalate	9.9	U F1	9.9	0.99	ug/L		08/04/16 15:13	08/05/16 17:43	10
Di-n-butyl phthalate	9.9	U F1	9.9	3.9	ug/L		08/04/16 15:13	08/05/16 17:43	10
4,6-Dinitro-2-methylphenol	50	U F1	50	9.9	ug/L		08/04/16 15:13	08/05/16 17:43	10
2,4-Dinitrophenol	99	U F1	99	11	ug/L		08/04/16 15:13	08/05/16 17:43	10
2,4-Dinitrotoluene	9.9	U F1 F2	9.9	1.2	ug/L		08/04/16 15:13	08/05/16 17:43	10
2,6-Dinitrotoluene	9.9	U F1 F2	9.9	1.3	ug/L		08/04/16 15:13	08/05/16 17:43	10
Di-n-octyl phthalate	9.9	U F1	9.9	1.7	ug/L		08/04/16 15:13	08/05/16 17:43	10
Fluoranthene	2.0	U F1 F2	2.0	0.99	ug/L		08/04/16 15:13	08/05/16 17:43	10
Fluorene	2.0	U F1 F2	2.0	0.99	ug/L		08/04/16 15:13	08/05/16 17:43	10
Hexachlorobenzene	9.9	U F1 F2	9.9	0.99	ug/L		08/04/16 15:13	08/05/16 17:43	10
Hexachlorobutadiene	9.9	U F1 F2	9.9	0.99	ug/L		08/04/16 15:13	08/05/16 17:43	10
Hexachlorocyclopentadiene	20	U F1	20	5.0	ug/L		08/04/16 15:13	08/05/16 17:43	10
Hexachloroethane	9.9	U F1	9.9	5.0	ug/L		08/04/16 15:13	08/05/16 17:43	10
Indeno[1,2,3-cd]pyrene	2.0	U F1 F2	2.0	0.99	ug/L		08/04/16 15:13	08/05/16 17:43	10
Isophorone	9.9	U F1	9.9	0.99	ug/L		08/04/16 15:13	08/05/16 17:43	10
2-Methylnaphthalene	**68**	**F2**	2.0	0.99	ug/L		08/04/16 15:13	08/05/16 17:43	10
Naphthalene	**170**	**F2**	2.0	0.99	ug/L		08/04/16 15:13	08/05/16 17:43	10
2-Nitroaniline	9.9	U F1 F2	9.9	1.6	ug/L		08/04/16 15:13	08/05/16 17:43	10
3-Nitroaniline	50	U F1	50	1.6	ug/L		08/04/16 15:13	08/05/16 17:43	10
4-Nitroaniline	50	U F1	50	5.0	ug/L		08/04/16 15:13	08/05/16 17:43	10
Nitrobenzene	9.9	U F1	9.9	0.99	ug/L		08/04/16 15:13	08/05/16 17:43	10
2-Nitrophenol	9.9	U F1 F2	9.9	0.99	ug/L		08/04/16 15:13	08/05/16 17:43	10
4-Nitrophenol	79	U	79	40	ug/L		08/04/16 15:13	08/05/16 17:43	10
N-Nitrosodi-n-propylamine	9.9	U F1	9.9	1.3	ug/L		08/04/16 15:13	08/05/16 17:43	10
N-Nitrosodiphenylamine	9.9	U F1	9.9	3.7	ug/L		08/04/16 15:13	08/05/16 17:43	10
2,2'-oxybis[1-chloropropane]	9.9	U F1	9.9	0.99	ug/L		08/04/16 15:13	08/05/16 17:43	10
Pentachlorophenol	50	U F2	50	4.0	ug/L		08/04/16 15:13	08/05/16 17:43	10
Phenanthrene	2.0	U F1 F2	2.0	0.99	ug/L		08/04/16 15:13	08/05/16 17:43	10
Phenol	**170**	**F2**	9.9	1.3	ug/L		08/04/16 15:13	08/05/16 17:43	10
Pyrene	2.0	U F1 F2	2.0	0.99	ug/L		08/04/16 15:13	08/05/16 17:43	10
2,4,5-Trichlorophenol	9.9	U F1 F2	9.9	1.2	ug/L		08/04/16 15:13	08/05/16 17:43	10
2,4,6-Trichlorophenol	9.9	U F1 F2	9.9	1.7	ug/L		08/04/16 15:13	08/05/16 17:43	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*0*	*D*	*31 - 107*	*08/04/16 15:13*	*08/05/16 17:43*	*10*
2-Fluorophenol	*0*	*D*	*18 - 112*	*08/04/16 15:13*	*08/05/16 17:43*	*10*
Nitrobenzene-d5 (Surr)	*0*	*D*	*37 - 103*	*08/04/16 15:13*	*08/05/16 17:43*	*10*
Phenol-d5 (Surr)	*0*	*D*	*20 - 113*	*08/04/16 15:13*	*08/05/16 17:43*	*10*
Terphenyl-d14 (Surr)	*0*	*D*	*22 - 121*	*08/04/16 15:13*	*08/05/16 17:43*	*10*
2,4,6-Tribromophenol (Surr)	*0*	*D*	*39 - 133*	*08/04/16 15:13*	*08/05/16 17:43*	*10*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	**310**		99	37	ug/L		08/04/16 15:13	08/06/16 17:36	50
3 & 4 Methylphenol	**550**		99	33	ug/L		08/04/16 15:13	08/06/16 17:36	50

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128237-1

Client Sample ID: 1600780-MW-A

Date Collected: 08/02/16 16:23
Date Received: 08/03/16 09:35

Lab Sample ID: 680-128237-2

Matrix: Water

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.050	U	0.050	0.023	mg/L			08/03/16 20:55	1
Sulfate	**1.9**		1.0	0.40	mg/L			08/12/16 06:32	1
Chloride	**120**		2.5	1.0	mg/L			08/12/16 12:30	5
Bromide	**0.59**		0.50	0.20	mg/L			08/12/16 06:32	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	20	U	20	5.3	ug/L		08/08/16 10:53	08/15/16 14:11	1
Arsenic	**25**		20	6.2	ug/L		08/08/16 10:53	08/15/16 14:11	1
Beryllium	**0.67**	**J**	4.0	0.10	ug/L		08/08/16 10:53	08/15/16 14:11	1
Cadmium	5.0	U	5.0	1.0	ug/L		08/08/16 10:53	08/15/16 14:11	1
Calcium	**270000**		500	25	ug/L		08/08/16 10:53	08/15/16 14:11	1
Chromium	**8.2**	**J**	10	1.6	ug/L		08/08/16 10:53	08/15/16 14:11	1
Copper	**13**	**J**	20	1.8	ug/L		08/08/16 10:53	08/15/16 14:11	1
Iron	**56000**		50	17	ug/L		08/08/16 10:53	08/15/16 14:11	1
Lead	**18**		10	3.9	ug/L		08/08/16 10:53	08/15/16 14:11	1
Magnesium	**76000**		500	33	ug/L		08/08/16 10:53	08/15/16 14:11	1
Manganese	**1700**		10	1.0	ug/L		08/08/16 10:53	08/15/16 14:11	1
Nickel	**25**	**J**	40	2.1	ug/L		08/08/16 10:53	08/15/16 14:11	1
Potassium	**1800**		1000	17	ug/L		08/08/16 10:53	08/15/16 14:11	1
Selenium	20	U	20	9.9	ug/L		08/08/16 10:53	08/15/16 14:11	1
Silver	10	U	10	0.60	ug/L		08/08/16 10:53	08/15/16 14:11	1
Sodium	**85000**		1000	480	ug/L		08/08/16 10:53	08/15/16 14:11	1
Thallium	25	U	25	6.0	ug/L		08/08/16 10:53	08/15/16 14:11	1
Zinc	**22**		20	7.0	ug/L		08/08/16 10:53	08/15/16 14:11	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	20	U	20	5.3	ug/L		08/17/16 09:22	08/18/16 08:19	1
Arsenic	**21**		20	6.2	ug/L		08/17/16 09:22	08/18/16 08:19	1
Beryllium	4.0	U	4.0	0.10	ug/L		08/17/16 09:22	08/18/16 08:19	1
Cadmium	5.0	U	5.0	1.0	ug/L		08/17/16 09:22	08/18/16 08:19	1
Calcium	**240000**		500	25	ug/L		08/17/16 09:22	08/18/16 08:19	1
Chromium	**3.1**	**J**	10	1.6	ug/L		08/17/16 09:22	08/18/16 08:19	1
Copper	**3.2**	**J**	20	1.8	ug/L		08/17/16 09:22	08/18/16 08:19	1
Iron	**44000**		50	17	ug/L		08/17/16 09:22	08/18/16 08:19	1
Lead	10	U	10	3.9	ug/L		08/17/16 09:22	08/18/16 08:19	1
Magnesium	**66000**		500	33	ug/L		08/17/16 09:22	08/18/16 08:19	1
Manganese	**1200**		10	1.0	ug/L		08/17/16 09:22	08/18/16 08:19	1
Nickel	**7.7**	**J**	40	2.1	ug/L		08/17/16 09:22	08/18/16 08:19	1
Potassium	**1200**		1000	17	ug/L		08/17/16 09:22	08/18/16 08:19	1
Selenium	20	U	20	9.9	ug/L		08/17/16 09:22	08/18/16 08:19	1
Silver	10	U	10	0.60	ug/L		08/17/16 09:22	08/18/16 08:19	1
Sodium	**79000**		1000	480	ug/L		08/17/16 09:22	08/18/16 08:19	1
Thallium	25	U	25	6.0	ug/L		08/17/16 09:22	08/18/16 08:19	1
Zinc	**7.3**	**J**	20	7.0	ug/L		08/17/16 09:22	08/18/16 08:19	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.080	ug/L		08/05/16 09:31	08/05/16 18:59	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128237-1

Client Sample ID: 1600780-MW-A

Lab Sample ID: 680-128237-2
Date Collected: 08/02/16 16:23
Matrix: Water
Date Received: 08/03/16 09:35

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**760**		5.0	5.0	mg/L			08/09/16 17:57	1
Bicarbonate Alkalinity as CaCO3	**760**		5.0	5.0	mg/L			08/09/16 17:57	1
Ammonia	**0.73**		0.25	0.10	mg/L			08/09/16 11:49	1
Phosphorus	**0.41**		0.10	0.041	mg/L		08/12/16 09:49	08/15/16 11:19	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**1200**		10	10	mg/L			08/08/16 12:17	1
Sulfide	1.0	U	1.0	1.0	mg/L			08/09/16 05:10	1

Client Sample ID: Trip Blank

Lab Sample ID: 680-128237-3
Date Collected: 08/02/16 00:00
Matrix: Water
Date Received: 08/03/16 09:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	7.0	ug/L			08/04/16 14:24	1
Benzene	1.0	U	1.0	0.43	ug/L			08/04/16 14:24	1
Bromobenzene	1.0	U	1.0	0.50	ug/L			08/04/16 14:24	1
Bromochloromethane	1.0	U	1.0	0.45	ug/L			08/04/16 14:24	1
Bromodichloromethane	1.0	U	1.0	0.44	ug/L			08/04/16 14:24	1
Bromoform	1.0	U	1.0	0.43	ug/L			08/04/16 14:24	1
Bromomethane	5.0	U	5.0	2.5	ug/L			08/04/16 14:24	1
2-Butanone (MEK)	10	U	10	3.4	ug/L			08/04/16 14:24	1
Carbon disulfide	2.0	U	2.0	1.0	ug/L			08/04/16 14:24	1
Carbon tetrachloride	1.0	U	1.0	0.33	ug/L			08/04/16 14:24	1
Chlorobenzene	1.0	U	1.0	0.26	ug/L			08/04/16 14:24	1
Chloroethane	5.0	U	5.0	2.5	ug/L			08/04/16 14:24	1
Chloroform	1.0	U	1.0	0.50	ug/L			08/04/16 14:24	1
Chloromethane	1.0	U	1.0	0.40	ug/L			08/04/16 14:24	1
2-Chlorotoluene	1.0	U	1.0	0.27	ug/L			08/04/16 14:24	1
4-Chlorotoluene	1.0	U	1.0	0.45	ug/L			08/04/16 14:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.41	ug/L			08/04/16 14:24	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.40	ug/L			08/04/16 14:24	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			08/04/16 14:24	1
Dibromomethane	1.0	U	1.0	0.35	ug/L			08/04/16 14:24	1
Dichlorodifluoromethane	1.0	U	1.0	0.60	ug/L			08/04/16 14:24	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			08/04/16 14:24	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			08/04/16 14:24	1
1,1-Dichloroethene	1.0	U	1.0	0.36	ug/L			08/04/16 14:24	1
1,2-Dichloroethene, Total	2.0	U	2.0	0.37	ug/L			08/04/16 14:24	1
1,2-Dichloropropane	1.0	U	1.0	0.67	ug/L			08/04/16 14:24	1
1,3-Dichloropropane	1.0	U	1.0	0.34	ug/L			08/04/16 14:24	1
2,2-Dichloropropane	1.0	U	1.0	0.37	ug/L			08/04/16 14:24	1
1,1-Dichloropropene	1.0	U	1.0	0.34	ug/L			08/04/16 14:24	1
Ethylbenzene	1.0	U	1.0	0.33	ug/L			08/04/16 14:24	1
2-Hexanone	10	U	10	2.0	ug/L			08/04/16 14:24	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			08/04/16 14:24	1
Methylene Chloride	5.0	U	5.0	2.5	ug/L			08/04/16 14:24	1
4-Methyl-2-pentanone	10	U	10	2.1	ug/L			08/04/16 14:24	1
Methyl tert-butyl ether	10	U	10	0.30	ug/L			08/04/16 14:24	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128237-1

Client Sample ID: Trip Blank

Lab Sample ID: 680-128237-3

Date Collected: 08/02/16 00:00
Matrix: Water
Date Received: 08/03/16 09:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	1.0	U	1.0	0.35	ug/L			08/04/16 14:24	1
n-Butylbenzene	1.0	U	1.0	0.47	ug/L			08/04/16 14:24	1
N-Propylbenzene	1.0	U	1.0	0.38	ug/L			08/04/16 14:24	1
o-Xylene	1.0	U	1.0	0.23	ug/L			08/04/16 14:24	1
p-Isopropyltoluene	1.0	U	1.0	0.48	ug/L			08/04/16 14:24	1
sec-Butylbenzene	1.0	U	1.0	0.42	ug/L			08/04/16 14:24	1
Styrene	1.0	U	1.0	0.27	ug/L			08/04/16 14:24	1
tert-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/04/16 14:24	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/04/16 14:24	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.62	ug/L			08/04/16 14:24	1
Tetrachloroethene	1.0	U	1.0	0.74	ug/L			08/04/16 14:24	1
Toluene	1.0	U	1.0	0.48	ug/L			08/04/16 14:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.37	ug/L			08/04/16 14:24	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.42	ug/L			08/04/16 14:24	1
1,2,3-Trichlorobenzene	5.0	U	5.0	2.5	ug/L			08/04/16 14:24	1
1,1,1-Trichloroethane	1.0	U	1.0	0.37	ug/L			08/04/16 14:24	1
1,1,2-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/04/16 14:24	1
Trichloroethene	1.0	U	1.0	0.48	ug/L			08/04/16 14:24	1
Trichlorofluoromethane	1.0	U	1.0	0.42	ug/L			08/04/16 14:24	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.47	ug/L			08/04/16 14:24	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.31	ug/L			08/04/16 14:24	1
Vinyl acetate	2.0	U	2.0	0.81	ug/L			08/04/16 14:24	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			08/04/16 14:24	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			08/04/16 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*		*08/04/16 14:24*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 122*		*08/04/16 14:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*73 - 131*		*08/04/16 14:24*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*08/04/16 14:24*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-444283/9
Matrix: Water
Analysis Batch: 444283

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	7.0	ug/L			08/04/16 12:54	1
Benzene	1.0	U	1.0	0.43	ug/L			08/04/16 12:54	1
Bromobenzene	1.0	U	1.0	0.50	ug/L			08/04/16 12:54	1
Bromochloromethane	1.0	U	1.0	0.45	ug/L			08/04/16 12:54	1
Bromodichloromethane	1.0	U	1.0	0.44	ug/L			08/04/16 12:54	1
Bromoform	1.0	U	1.0	0.43	ug/L			08/04/16 12:54	1
Bromomethane	5.0	U	5.0	2.5	ug/L			08/04/16 12:54	1
2-Butanone (MEK)	10	U	10	3.4	ug/L			08/04/16 12:54	1
Carbon disulfide	2.0	U	2.0	1.0	ug/L			08/04/16 12:54	1
Carbon tetrachloride	1.0	U	1.0	0.33	ug/L			08/04/16 12:54	1
Chlorobenzene	1.0	U	1.0	0.26	ug/L			08/04/16 12:54	1
Chloroethane	5.0	U	5.0	2.5	ug/L			08/04/16 12:54	1
Chloroform	1.0	U	1.0	0.50	ug/L			08/04/16 12:54	1
Chloromethane	1.0	U	1.0	0.40	ug/L			08/04/16 12:54	1
2-Chlorotoluene	1.0	U	1.0	0.27	ug/L			08/04/16 12:54	1
4-Chlorotoluene	1.0	U	1.0	0.45	ug/L			08/04/16 12:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.41	ug/L			08/04/16 12:54	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.40	ug/L			08/04/16 12:54	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			08/04/16 12:54	1
Dibromomethane	1.0	U	1.0	0.35	ug/L			08/04/16 12:54	1
Dichlorodifluoromethane	1.0	U	1.0	0.60	ug/L			08/04/16 12:54	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			08/04/16 12:54	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			08/04/16 12:54	1
1,1-Dichloroethene	1.0	U	1.0	0.36	ug/L			08/04/16 12:54	1
1,2-Dichloroethene, Total	2.0	U	2.0	0.37	ug/L			08/04/16 12:54	1
1,2-Dichloropropane	1.0	U	1.0	0.67	ug/L			08/04/16 12:54	1
1,3-Dichloropropane	1.0	U	1.0	0.34	ug/L			08/04/16 12:54	1
2,2-Dichloropropane	1.0	U	1.0	0.37	ug/L			08/04/16 12:54	1
1,1-Dichloropropene	1.0	U	1.0	0.34	ug/L			08/04/16 12:54	1
Ethylbenzene	1.0	U	1.0	0.33	ug/L			08/04/16 12:54	1
2-Hexanone	10	U	10	2.0	ug/L			08/04/16 12:54	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			08/04/16 12:54	1
Methylene Chloride	5.0	U	5.0	2.5	ug/L			08/04/16 12:54	1
4-Methyl-2-pentanone	10	U	10	2.1	ug/L			08/04/16 12:54	1
Methyl tert-butyl ether	10	U	10	0.30	ug/L			08/04/16 12:54	1
m-Xylene & p-Xylene	1.0	U	1.0	0.35	ug/L			08/04/16 12:54	1
n-Butylbenzene	1.0	U	1.0	0.47	ug/L			08/04/16 12:54	1
N-Propylbenzene	1.0	U	1.0	0.38	ug/L			08/04/16 12:54	1
o-Xylene	1.0	U	1.0	0.23	ug/L			08/04/16 12:54	1
p-Isopropyltoluene	1.0	U	1.0	0.48	ug/L			08/04/16 12:54	1
sec-Butylbenzene	1.0	U	1.0	0.42	ug/L			08/04/16 12:54	1
Styrene	1.0	U	1.0	0.27	ug/L			08/04/16 12:54	1
tert-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/04/16 12:54	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/04/16 12:54	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.62	ug/L			08/04/16 12:54	1
Tetrachloroethene	1.0	U	1.0	0.74	ug/L			08/04/16 12:54	1
Toluene	1.0	U	1.0	0.48	ug/L			08/04/16 12:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.37	ug/L			08/04/16 12:54	1

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

Lab Sample ID: MB 680-444283/9
Matrix: Water
Analysis Batch: 444283

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	1.0	U	1.0	0.42	ug/L			08/04/16 12:54	1
1,2,3-Trichlorobenzene	5.0	U	5.0	2.5	ug/L			08/04/16 12:54	1
1,1,1-Trichloroethane	1.0	U	1.0	0.37	ug/L			08/04/16 12:54	1
1,1,2-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/04/16 12:54	1
Trichloroethene	1.0	U	1.0	0.48	ug/L			08/04/16 12:54	1
Trichlorofluoromethane	1.0	U	1.0	0.42	ug/L			08/04/16 12:54	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.47	ug/L			08/04/16 12:54	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.31	ug/L			08/04/16 12:54	1
Vinyl acetate	2.0	U	2.0	0.81	ug/L			08/04/16 12:54	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			08/04/16 12:54	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			08/04/16 12:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*08/04/16 12:54*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 122*		*08/04/16 12:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*73 - 131*		*08/04/16 12:54*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*08/04/16 12:54*	*1*

Lab Sample ID: LCS 680-444283/4
Matrix: Water
Analysis Batch: 444283

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	274		ug/L		110	68 - 132
Benzene	50.0	51.0		ug/L		102	80 - 120
Bromobenzene	50.0	43.8		ug/L		88	71 - 124
Bromochloromethane	50.0	46.7		ug/L		93	80 - 120
Bromodichloromethane	50.0	52.0		ug/L		104	80 - 120
Bromoform	50.0	49.0		ug/L		98	52 - 122
Bromomethane	50.0	53.0		ug/L		106	43 - 146
2-Butanone (MEK)	250	253		ug/L		101	79 - 125
Carbon disulfide	50.0	51.8		ug/L		104	77 - 129
Carbon tetrachloride	50.0	52.9		ug/L		106	67 - 125
Chlorobenzene	50.0	45.8		ug/L		92	80 - 120
Chloroethane	50.0	47.2		ug/L		94	48 - 145
Chloroform	50.0	50.1		ug/L		100	80 - 120
Chloromethane	50.0	52.7		ug/L		105	76 - 149
2-Chlorotoluene	50.0	47.0		ug/L		94	80 - 120
4-Chlorotoluene	50.0	46.2		ug/L		92	80 - 120
cis-1,2-Dichloroethene	50.0	52.7		ug/L		105	80 - 120
cis-1,3-Dichloropropene	50.0	53.4		ug/L		107	80 - 129
Dibromochloromethane	50.0	51.1		ug/L		102	68 - 120
Dibromomethane	50.0	48.9		ug/L		98	80 - 120
Dichlorodifluoromethane	50.0	50.9		ug/L		102	70 - 137
1,1-Dichloroethane	50.0	52.3		ug/L		105	80 - 120
1,2-Dichloroethane	50.0	49.9		ug/L		100	72 - 128
1,1-Dichloroethene	50.0	52.7		ug/L		105	80 - 120
1,2-Dichloroethene, Total	100	102		ug/L		102	80 - 120

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

Lab Sample ID: LCS 680-444283/4
Matrix: Water
Analysis Batch: 444283

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	50.0	53.4		ug/L		107	80 - 120
1,3-Dichloropropane	50.0	49.6		ug/L		99	80 - 120
2,2-Dichloropropane	50.0	60.2		ug/L		120	80 - 135
1,1-Dichloropropene	50.0	51.4		ug/L		103	80 - 120
Ethylbenzene	50.0	49.2		ug/L		98	80 - 120
2-Hexanone	250	263		ug/L		105	80 - 131
Isopropylbenzene	50.0	49.4		ug/L		99	79 - 126
Methylene Chloride	50.0	52.8		ug/L		106	80 - 120
4-Methyl-2-pentanone	250	269		ug/L		107	80 - 134
Methyl tert-butyl ether	50.0	51.0		ug/L		102	80 - 122
m-Xylene & p-Xylene	50.0	48.3		ug/L		97	80 - 120
n-Butylbenzene	50.0	53.6		ug/L		107	75 - 132
N-Propylbenzene	50.0	49.1		ug/L		98	80 - 125
o-Xylene	50.0	49.6		ug/L		99	80 - 120
p-Isopropyltoluene	50.0	52.4		ug/L		105	80 - 120
sec-Butylbenzene	50.0	49.0		ug/L		98	80 - 120
Styrene	50.0	48.8		ug/L		98	80 - 126
tert-Butylbenzene	50.0	47.1		ug/L		94	80 - 120
1,1,1,2-Tetrachloroethane	50.0	49.7		ug/L		99	73 - 124
1,1,2,2-Tetrachloroethane	50.0	47.2		ug/L		94	76 - 126
Tetrachloroethene	50.0	47.6		ug/L		95	71 - 123
Toluene	50.0	50.0		ug/L		100	80 - 120
trans-1,2-Dichloroethene	50.0	49.7		ug/L		99	80 - 120
trans-1,3-Dichloropropene	50.0	52.6		ug/L		105	80 - 128
1,2,3-Trichlorobenzene	50.0	48.8		ug/L		98	70 - 125
1,1,1-Trichloroethane	50.0	52.0		ug/L		104	80 - 120
1,1,2-Trichloroethane	50.0	49.2		ug/L		98	80 - 120
Trichloroethene	50.0	48.8		ug/L		98	80 - 120
Trichlorofluoromethane	50.0	53.3		ug/L		107	58 - 127
1,2,4-Trimethylbenzene	50.0	47.9		ug/L		96	80 - 120
1,3,5-Trimethylbenzene	50.0	47.9		ug/L		96	80 - 120
Vinyl acetate	100	122		ug/L		122	74 - 156
Vinyl chloride	50.0	50.5		ug/L		101	80 - 129
Xylenes, Total	100	97.9		ug/L		98	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*105*		*73 - 131*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: LCSD 680-444283/5
Matrix: Water
Analysis Batch: 444283

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	252		ug/L		101	68 - 132	8	30
Benzene	50.0	49.3		ug/L		99	80 - 120	3	20

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

Lab Sample ID: LCSD 680-444283/5
Matrix: Water
Analysis Batch: 444283

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromobenzene	50.0	44.2		ug/L		88	71 - 124	1	20
Bromochloromethane	50.0	45.9		ug/L		92	80 - 120	2	20
Bromodichloromethane	50.0	50.3		ug/L		101	80 - 120	3	20
Bromoform	50.0	48.4		ug/L		97	52 - 122	1	20
Bromomethane	50.0	41.8	*	ug/L		84	43 - 146	24	20
2-Butanone (MEK)	250	240		ug/L		96	79 - 125	5	20
Carbon disulfide	50.0	51.0		ug/L		102	77 - 129	2	20
Carbon tetrachloride	50.0	52.2		ug/L		104	67 - 125	1	20
Chlorobenzene	50.0	46.5		ug/L		93	80 - 120	1	20
Chloroethane	50.0	47.8		ug/L		96	48 - 145	1	20
Chloroform	50.0	48.1		ug/L		96	80 - 120	4	20
Chloromethane	50.0	51.2		ug/L		102	76 - 149	3	30
2-Chlorotoluene	50.0	47.3		ug/L		95	80 - 120	1	20
4-Chlorotoluene	50.0	47.1		ug/L		94	80 - 120	2	20
cis-1,2-Dichloroethene	50.0	51.7		ug/L		103	80 - 120	2	20
cis-1,3-Dichloropropene	50.0	51.2		ug/L		102	80 - 129	4	20
Dibromochloromethane	50.0	47.9		ug/L		96	68 - 120	6	20
Dibromomethane	50.0	47.2		ug/L		94	80 - 120	4	20
Dichlorodifluoromethane	50.0	50.0		ug/L		100	70 - 137	2	40
1,1-Dichloroethane	50.0	50.4		ug/L		101	80 - 120	4	20
1,2-Dichloroethane	50.0	48.3		ug/L		97	72 - 128	3	50
1,1-Dichloroethene	50.0	51.6		ug/L		103	80 - 120	2	20
1,2-Dichloroethene, Total	100	100		ug/L		100	80 - 120	2	20
1,2-Dichloropropane	50.0	52.0		ug/L		104	80 - 120	3	20
1,3-Dichloropropane	50.0	46.7		ug/L		93	80 - 120	6	20
2,2-Dichloropropane	50.0	58.2		ug/L		116	80 - 135	3	20
1,1-Dichloropropene	50.0	50.1		ug/L		100	80 - 120	2	20
Ethylbenzene	50.0	49.7		ug/L		99	80 - 120	1	20
2-Hexanone	250	249		ug/L		100	80 - 131	6	20
Isopropylbenzene	50.0	50.1		ug/L		100	79 - 126	1	20
Methylene Chloride	50.0	51.9		ug/L		104	80 - 120	2	20
4-Methyl-2-pentanone	250	257		ug/L		103	80 - 134	5	20
Methyl tert-butyl ether	50.0	48.6		ug/L		97	80 - 122	5	20
m-Xylene & p-Xylene	50.0	50.0		ug/L		100	80 - 120	3	20
n-Butylbenzene	50.0	54.4		ug/L		109	75 - 132	1	20
N-Propylbenzene	50.0	50.8		ug/L		102	80 - 125	4	20
o-Xylene	50.0	49.8		ug/L		100	80 - 120	0	30
p-Isopropyltoluene	50.0	53.2		ug/L		106	80 - 120	1	20
sec-Butylbenzene	50.0	49.6		ug/L		99	80 - 120	1	20
Styrene	50.0	48.8		ug/L		98	80 - 126	0	20
tert-Butylbenzene	50.0	48.1		ug/L		96	80 - 120	2	20
1,1,1,2-Tetrachloroethane	50.0	48.5		ug/L		97	73 - 124	2	20
1,1,2,2-Tetrachloroethane	50.0	47.2		ug/L		94	76 - 126	0	20
Tetrachloroethene	50.0	47.0		ug/L		94	71 - 123	1	20
Toluene	50.0	49.2		ug/L		98	80 - 120	2	20
trans-1,2-Dichloroethene	50.0	48.4		ug/L		97	80 - 120	3	20
trans-1,3-Dichloropropene	50.0	50.3		ug/L		101	80 - 128	4	30
1,2,3-Trichlorobenzene	50.0	48.8		ug/L		98	70 - 125	0	20

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

Lab Sample ID: LCSD 680-444283/5
Matrix: Water
Analysis Batch: 444283

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	51.2		ug/L		102	80 - 120	2	20
1,1,2-Trichloroethane	50.0	47.0		ug/L		94	80 - 120	5	20
Trichloroethene	50.0	48.2		ug/L		96	80 - 120	1	20
Trichlorofluoromethane	50.0	56.4		ug/L		113	58 - 127	6	20
1,2,4-Trimethylbenzene	50.0	48.2		ug/L		96	80 - 120	1	20
1,3,5-Trimethylbenzene	50.0	48.8		ug/L		98	80 - 120	2	20
Vinyl acetate	100	114		ug/L		114	74 - 156	6	20
Vinyl chloride	50.0	49.5		ug/L		99	80 - 129	2	20
Xylenes, Total	100	99.8		ug/L		100	80 - 120	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*98*		*73 - 131*
Toluene-d8 (Surr)	*99*		*80 - 120*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 680-444265/4-A
Matrix: Water
Analysis Batch: 444483

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 444265

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.20	U	0.20	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
Acenaphthylene	0.20	U	0.20	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
Acetophenone	1.0	U	1.0	0.30	ug/L		08/04/16 15:13	08/05/16 15:31	1
Anthracene	0.20	U	0.20	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
Atrazine	4.0	U	4.0	2.0	ug/L		08/04/16 15:13	08/05/16 15:31	1
Benzaldehyde	1.0	U	1.0	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
Benzo[a]anthracene	0.20	U	0.20	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
Benzo[a]pyrene	0.20	U	0.20	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
Benzo[b]fluoranthene	0.20	U	0.20	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
Benzo[g,h,i]perylene	0.20	U	0.20	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
Benzo[k]fluoranthene	0.20	U	0.20	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
1,1'-Biphenyl	1.0	U	1.0	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
Bis(2-ethylhexyl) phthalate	5.0	U	5.0	2.0	ug/L		08/04/16 15:13	08/05/16 15:31	1
4-Bromophenyl phenyl ether	1.0	U	1.0	0.12	ug/L		08/04/16 15:13	08/05/16 15:31	1
Butyl benzyl phthalate	1.0	U	1.0	0.12	ug/L		08/04/16 15:13	08/05/16 15:31	1
Caprolactam	1.0	U	1.0	0.13	ug/L		08/04/16 15:13	08/05/16 15:31	1
Carbazole	2.0	U	2.0	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
4-Chloroaniline	4.0	U	4.0	2.0	ug/L		08/04/16 15:13	08/05/16 15:31	1
4-Chloro-3-methylphenol	1.0	U	1.0	0.12	ug/L		08/04/16 15:13	08/05/16 15:31	1
2-Chloronaphthalene	1.0	U	1.0	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
2-Chlorophenol	1.0	U	1.0	0.12	ug/L		08/04/16 15:13	08/05/16 15:31	1
4-Chlorophenyl phenyl ether	1.0	U	1.0	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
Chrysene	0.20	U	0.20	0.045	ug/L		08/04/16 15:13	08/05/16 15:31	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 680-444265/4-A
Matrix: Water
Analysis Batch: 444483

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 444265

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	0.20	U	0.20	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
Dibenzofuran	1.0	U	1.0	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
3,3'-Dichlorobenzidine	20	U	20	2.0	ug/L		08/04/16 15:13	08/05/16 15:31	1
2,4-Dichlorophenol	1.0	U	1.0	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
Diethyl phthalate	1.0	U	1.0	0.11	ug/L		08/04/16 15:13	08/05/16 15:31	1
2,4-Dimethylphenol	2.0	U	2.0	0.69	ug/L		08/04/16 15:13	08/05/16 15:31	1
Dimethyl phthalate	1.0	U	1.0	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
Di-n-butyl phthalate	1.0	U	1.0	0.39	ug/L		08/04/16 15:13	08/05/16 15:31	1
4,6-Dinitro-2-methylphenol	5.0	U	5.0	1.0	ug/L		08/04/16 15:13	08/05/16 15:31	1
2,4-Dinitrophenol	10	U	10	1.1	ug/L		08/04/16 15:13	08/05/16 15:31	1
2,4-Dinitrotoluene	1.0	U	1.0	0.12	ug/L		08/04/16 15:13	08/05/16 15:31	1
2,6-Dinitrotoluene	1.0	U	1.0	0.13	ug/L		08/04/16 15:13	08/05/16 15:31	1
Di-n-octyl phthalate	1.0	U	1.0	0.17	ug/L		08/04/16 15:13	08/05/16 15:31	1
Fluoranthene	0.20	U	0.20	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
Fluorene	0.20	U	0.20	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
Hexachlorobenzene	1.0	U	1.0	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
Hexachlorobutadiene	1.0	U	1.0	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
Hexachlorocyclopentadiene	2.0	U	2.0	0.50	ug/L		08/04/16 15:13	08/05/16 15:31	1
Hexachloroethane	1.0	U	1.0	0.50	ug/L		08/04/16 15:13	08/05/16 15:31	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
Isophorone	1.0	U	1.0	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
2-Methylnaphthalene	0.20	U	0.20	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
2-Methylphenol	2.0	U	2.0	0.74	ug/L		08/04/16 15:13	08/05/16 15:31	1
3 & 4 Methylphenol	2.0	U	2.0	0.66	ug/L		08/04/16 15:13	08/05/16 15:31	1
Naphthalene	0.20	U	0.20	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
2-Nitroaniline	1.0	U	1.0	0.16	ug/L		08/04/16 15:13	08/05/16 15:31	1
3-Nitroaniline	5.0	U	5.0	0.16	ug/L		08/04/16 15:13	08/05/16 15:31	1
4-Nitroaniline	5.0	U	5.0	0.50	ug/L		08/04/16 15:13	08/05/16 15:31	1
Nitrobenzene	1.0	U	1.0	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
2-Nitrophenol	1.0	U	1.0	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
4-Nitrophenol	8.0	U	8.0	4.0	ug/L		08/04/16 15:13	08/05/16 15:31	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.13	ug/L		08/04/16 15:13	08/05/16 15:31	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.37	ug/L		08/04/16 15:13	08/05/16 15:31	1
2,2'-oxybis[1-chloropropane]	1.0	U	1.0	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
Pentachlorophenol	5.0	U	5.0	0.40	ug/L		08/04/16 15:13	08/05/16 15:31	1
Phenanthrene	0.20	U	0.20	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
Phenol	1.0	U	1.0	0.13	ug/L		08/04/16 15:13	08/05/16 15:31	1
Pyrene	0.20	U	0.20	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
2,4,5-Trichlorophenol	1.0	U	1.0	0.12	ug/L		08/04/16 15:13	08/05/16 15:31	1
2,4,6-Trichlorophenol	1.0	U	1.0	0.17	ug/L		08/04/16 15:13	08/05/16 15:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*58*		*31 - 107*	*08/04/16 15:13*	*08/05/16 15:31*	*1*
2-Fluorophenol	*52*		*18 - 112*	*08/04/16 15:13*	*08/05/16 15:31*	*1*
Nitrobenzene-d5 (Surr)	*71*		*37 - 103*	*08/04/16 15:13*	*08/05/16 15:31*	*1*
Phenol-d5 (Surr)	*57*		*20 - 113*	*08/04/16 15:13*	*08/05/16 15:31*	*1*
Terphenyl-d14 (Surr)	*75*		*22 - 121*	*08/04/16 15:13*	*08/05/16 15:31*	*1*
2,4,6-Tribromophenol (Surr)	*66*		*39 - 133*	*08/04/16 15:13*	*08/05/16 15:31*	*1*

QC Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128237-1

Lab Sample ID: LCS 680-444265/5-A
Matrix: Water
Analysis Batch: 444483

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 444265

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	10.0	6.52		ug/L		65	41 - 130
Acenaphthylene	10.0	6.33		ug/L		63	37 - 130
Acetophenone	10.0	8.19		ug/L		82	45 - 130
Anthracene	10.0	8.38		ug/L		84	48 - 130
Atrazine	10.0	6.96		ug/L		70	30 - 130
Benzaldehyde	10.0	5.36		ug/L		54	17 - 130
Benzo[a]anthracene	10.0	7.99		ug/L		80	52 - 130
Benzo[a]pyrene	10.0	7.29		ug/L		73	44 - 130
Benzo[b]fluoranthene	10.0	7.27		ug/L		73	44 - 130
Benzo[g,h,i]perylene	10.0	7.41		ug/L		74	31 - 130
Benzo[k]fluoranthene	10.0	6.92		ug/L		69	39 - 131
1,1'-Biphenyl	10.0	6.24		ug/L		62	35 - 130
Bis(2-chloroethoxy)methane	10.0	7.84		ug/L		78	33 - 130
Bis(2-chloroethyl)ether	10.0	7.18		ug/L		72	29 - 130
Bis(2-ethylhexyl) phthalate	10.0	7.93		ug/L		79	40 - 130
4-Bromophenyl phenyl ether	10.0	8.94		ug/L		89	41 - 130
Butyl benzyl phthalate	10.0	8.77		ug/L		88	42 - 130
Caprolactam	10.0	8.28		ug/L		83	25 - 130
Carbazole	10.0	9.32		ug/L		93	48 - 130
4-Chloroaniline	10.0	5.97		ug/L		60	10 - 130
4-Chloro-3-methylphenol	10.0	8.90		ug/L		89	49 - 122
2-Chloronaphthalene	10.0	6.20		ug/L		62	31 - 130
2-Chlorophenol	10.0	7.24		ug/L		72	44 - 130
4-Chlorophenyl phenyl ether	10.0	6.61		ug/L		66	39 - 130
Chrysene	10.0	7.65		ug/L		76	47 - 130
Dibenz(a,h)anthracene	10.0	7.60		ug/L		76	36 - 130
Dibenzofuran	10.0	6.67		ug/L		67	38 - 130
3,3'-Dichlorobenzidine	10.0	7.26	J	ug/L		73	10 - 142
2,4-Dichlorophenol	10.0	8.15		ug/L		82	49 - 130
Diethyl phthalate	10.0	6.80		ug/L		68	46 - 130
2,4-Dimethylphenol	10.0	6.38		ug/L		64	37 - 130
Dimethyl phthalate	10.0	7.31		ug/L		73	48 - 130
Di-n-butyl phthalate	10.0	8.73		ug/L		87	43 - 130
4,6-Dinitro-2-methylphenol	20.0	20.4		ug/L		102	18 - 147
2,4-Dinitrophenol	20.0	16.7		ug/L		83	16 - 147
2,4-Dinitrotoluene	10.0	7.98		ug/L		80	51 - 130
2,6-Dinitrotoluene	10.0	7.81		ug/L		78	51 - 130
Di-n-octyl phthalate	10.0	8.00		ug/L		80	43 - 130
Fluoranthene	10.0	8.66		ug/L		87	50 - 130
Fluorene	10.0	6.93		ug/L		69	43 - 130
Hexachlorobenzene	10.0	8.46		ug/L		85	42 - 130
Hexachlorobutadiene	10.0	5.63		ug/L		56	23 - 130
Hexachlorocyclopentadiene	10.0	1.68	J	ug/L		17	10 - 130
Hexachloroethane	10.0	5.71		ug/L		57	23 - 130
Indeno[1,2,3-cd]pyrene	10.0	7.18		ug/L		72	30 - 130
Isophorone	10.0	8.14		ug/L		81	46 - 130
2-Methylnaphthalene	10.0	7.23		ug/L		72	33 - 130
2-Methylphenol	10.0	7.71		ug/L		77	42 - 130
3 & 4 Methylphenol	10.0	7.46		ug/L		75	44 - 130
Naphthalene	10.0	6.97		ug/L		70	40 - 130

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 680-444265/5-A
Matrix: Water
Analysis Batch: 444483

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 444265

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Nitroaniline	10.0	8.24		ug/L		82	46 - 130
3-Nitroaniline	10.0	6.68		ug/L		67	14 - 130
4-Nitroaniline	10.0	7.27		ug/L		73	38 - 130
Nitrobenzene	10.0	7.79		ug/L		78	41 - 130
2-Nitrophenol	10.0	8.31		ug/L		83	50 - 130
4-Nitrophenol	20.0	16.8		ug/L		84	25 - 135
N-Nitrosodi-n-propylamine	10.0	7.78		ug/L		78	39 - 130
N-Nitrosodiphenylamine	10.0	8.65		ug/L		87	27 - 130
2,2'-oxybis[1-chloropropane]	10.0	7.56		ug/L		76	24 - 130
Pentachlorophenol	20.0	20.4		ug/L		102	27 - 134
Phenanthrene	10.0	9.21		ug/L		92	49 - 130
Phenol	10.0	6.79		ug/L		68	37 - 130
Pyrene	10.0	8.03		ug/L		80	45 - 130
2,4,5-Trichlorophenol	10.0	6.72		ug/L		67	49 - 130
2,4,6-Trichlorophenol	10.0	7.69		ug/L		77	48 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*62*		*31 - 107*
2-Fluorophenol	*64*		*18 - 112*
Nitrobenzene-d5 (Surr)	*78*		*37 - 103*
Phenol-d5 (Surr)	*69*		*20 - 113*
Terphenyl-d14 (Surr)	*73*		*22 - 121*
2,4,6-Tribromophenol (Surr)	*74*		*39 - 133*

Lab Sample ID: 680-128237-2 MS
Matrix: Water
Analysis Batch: 444483

Client Sample ID: 1600780-MW-A
Prep Type: Total/NA
Prep Batch: 444265

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	2.0	U F1 F2	9.90	5.94		ug/L		60	41 - 130
Acenaphthylene	2.0	U F1 F2	9.90	5.53		ug/L		56	37 - 130
Acetophenone	33	F1	9.90	9.9	U F1	ug/L		0	45 - 130
Anthracene	2.0	U F1 F2	9.90	6.65		ug/L		67	48 - 130
Atrazine	40	U	9.90	40	U	ug/L		NC	30 - 130
Benzaldehyde	9.9	U F1	9.90	9.9	U F1	ug/L		0	17 - 130
Benzo[a]anthracene	2.0	U F1 F2	9.90	6.32		ug/L		64	52 - 130
Benzo[a]pyrene	2.0	U F1 F2	9.90	5.83		ug/L		59	44 - 130
Benzo[b]fluoranthene	2.0	U F1 F2	9.90	5.45		ug/L		55	44 - 130
Benzo[g,h,i]perylene	2.0	U F1 F2	9.90	5.69		ug/L		57	31 - 130
Benzo[k]fluoranthene	2.0	U F1 F2	9.90	6.59		ug/L		67	39 - 131
1,1'-Biphenyl	9.9	U F1 F2	9.90	5.65	J	ug/L		57	35 - 130
Bis(2-chloroethoxy)methane	9.9	U F1 F2	9.90	7.01	J	ug/L		71	33 - 130
Bis(2-chloroethyl)ether	9.9	U F1 F2	9.90	6.21	J	ug/L		63	29 - 130
Bis(2-ethylhexyl) phthalate	50	U	9.90	49	U	ug/L		NC	40 - 130
4-Bromophenyl phenyl ether	9.9	U F1 F2	9.90	6.99	J	ug/L		71	41 - 130
Butyl benzyl phthalate	9.9	U F1 F2	9.90	7.01	J	ug/L		71	42 - 130
Caprolactam	9.9	U F1	9.90	9.9	U F1	ug/L		0	25 - 130
Carbazole	20	U F1 F2	9.90	9.95	J	ug/L		101	48 - 130

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 680-128237-2 MS | **Client Sample ID: 1600780-MW-A**
Matrix: Water | **Prep Type: Total/NA**
Analysis Batch: 444483 | **Prep Batch: 444265**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	40	U	9.90	40	U	ug/L		NC	10 - 130
4-Chloro-3-methylphenol	9.9	U F1 F2	9.90	11.5		ug/L		116	49 - 122
2-Chloronaphthalene	9.9	U F1 F2	9.90	4.57	J	ug/L		46	31 - 130
2-Chlorophenol	9.9	U F1 F2	9.90	6.46	J	ug/L		65	44 - 130
4-Chlorophenyl phenyl ether	9.9	U F1 F2	9.90	5.40	J	ug/L		55	39 - 130
Chrysene	2.0	U F1 F2	9.90	6.49		ug/L		66	47 - 130
Dibenz(a,h)anthracene	2.0	U F1 F2	9.90	6.17		ug/L		62	36 - 130
Dibenzofuran	9.9	U F1 F2	9.90	5.79	J	ug/L		58	38 - 130
3,3'-Dichlorobenzidine	200	U	9.90	200	U	ug/L		NC	10 - 142
2,4-Dichlorophenol	9.9	U F1 F2	9.90	7.04	J	ug/L		71	49 - 130
Diethyl phthalate	9.9	U F1 F2	9.90	6.34	J	ug/L		64	46 - 130
2,4-Dimethylphenol	180	F2	9.90	243	E 4	ug/L		592	37 - 130
Dimethyl phthalate	9.9	U F1	9.90	5.52	J	ug/L		56	48 - 130
Di-n-butyl phthalate	9.9	U F1	9.90	7.43	J	ug/L		75	43 - 130
4,6-Dinitro-2-methylphenol	50	U F1	19.8	23.9	J	ug/L		121	18 - 147
2,4-Dinitrophenol	99	U F1	19.8	18.6	J	ug/L		94	16 - 147
2,4-Dinitrotoluene	9.9	U F1 F2	9.90	6.28	J	ug/L		63	51 - 130
2,6-Dinitrotoluene	9.9	U F1 F2	9.90	7.84	J	ug/L		79	51 - 130
Di-n-octyl phthalate	9.9	U F1	9.90	6.10	J	ug/L		62	43 - 130
Fluoranthene	2.0	U F1 F2	9.90	7.24		ug/L		73	50 - 130
Fluorene	2.0	U F1 F2	9.90	6.41		ug/L		65	43 - 130
Hexachlorobenzene	9.9	U F1 F2	9.90	6.09	J	ug/L		61	42 - 130
Hexachlorobutadiene	9.9	U F1 F2	9.90	2.63	J	ug/L		27	23 - 130
Hexachlorocyclopentadiene	20	U F1	9.90	20	U F1	ug/L		0	10 - 130
Hexachloroethane	9.9	U F1	9.90	9.9	U F1	ug/L		0	23 - 130
Indeno[1,2,3-cd]pyrene	2.0	U F1 F2	9.90	5.72		ug/L		58	30 - 130
Isophorone	9.9	U F1	9.90	9.9	U F1	ug/L		0	46 - 130
2-Methylnaphthalene	68	F2	9.90	128	4	ug/L		603	33 - 130
2-Methylphenol	260	E F2	9.90	312	E 4	ug/L		562	42 - 130
3 & 4 Methylphenol	460	E F2	9.90	572	E 4	ug/L		1117	44 - 130
Naphthalene	170	F2	9.90	233	E 4	ug/L		682	40 - 130
2-Nitroaniline	9.9	U F1 F2	9.90	14.9	F1	ug/L		150	46 - 130
3-Nitroaniline	50	U F1	9.90	49	U F1	ug/L		0	14 - 130
4-Nitroaniline	50	U F1	9.90	49	U F1	ug/L		0	38 - 130
Nitrobenzene	9.9	U F1	9.90	9.9	U F1	ug/L		0	41 - 130
2-Nitrophenol	9.9	U F1 F2	9.90	6.54	J	ug/L		66	50 - 130
4-Nitrophenol	79	U	19.8	79	U	ug/L		NC	25 - 135
N-Nitrosodi-n-propylamine	9.9	U F1	9.90	9.9	U F1	ug/L		0	39 - 130
N-Nitrosodiphenylamine	9.9	U F1	9.90	8.57	J	ug/L		87	27 - 130
2,2'-oxybis[1-chloropropane]	9.9	U F1	9.90	9.9	U F1	ug/L		0	24 - 130
Pentachlorophenol	50	U F2	19.8	19.3	J	ug/L		98	27 - 134
Phenanthrene	2.0	U F1 F2	9.90	9.24		ug/L		93	49 - 130
Phenol	170	F2	9.90	208	E 4	ug/L		414	37 - 130
Pyrene	2.0	U F1 F2	9.90	6.35		ug/L		64	45 - 130
2,4,5-Trichlorophenol	9.9	U F1 F2	9.90	6.33	J	ug/L		64	49 - 130
2,4,6-Trichlorophenol	9.9	U F1 F2	9.90	7.08	J	ug/L		72	48 - 130

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 680-128237-2 MS
Matrix: Water
Analysis Batch: 444483

Client Sample ID: 1600780-MW-A
Prep Type: Total/NA
Prep Batch: 444265

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*0*	*D*	*31 - 107*
2-Fluorophenol	*0*	*D*	*18 - 112*
Nitrobenzene-d5 (Surr)	*0*	*D*	*37 - 103*
Phenol-d5 (Surr)	*0*	*D*	*20 - 113*
Terphenyl-d14 (Surr)	*0*	*D*	*22 - 121*
2,4,6-Tribromophenol (Surr)	*0*	*D*	*39 - 133*

Lab Sample ID: 680-128237-2 MSD
Matrix: Water
Analysis Batch: 444483

Client Sample ID: 1600780-MW-A
Prep Type: Total/NA
Prep Batch: 444265

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	2.0	U F1 F2	9.17	1.92	F1 F2	ug/L		21	41 - 130	102	20
Acenaphthylene	2.0	U F1 F2	9.17	1.93	F1 F2	ug/L		21	37 - 130	97	30
Acetophenone	33	F1	9.17	24.1	F1	ug/L		-96	45 - 130	NC	30
Anthracene	2.0	U F1 F2	9.17	1.87	F1 F2	ug/L		20	48 - 130	112	20
Atrazine	40	U	9.17	37	U	ug/L		NC	30 - 130	NC	50
Benzaldehyde	9.9	U F1	9.17	68.9	F1	ug/L		752	17 - 130	NC	50
Benzo[a]anthracene	2.0	U F1 F2	9.17	1.50	J F1 F2	ug/L		16	52 - 130	123	20
Benzo[a]pyrene	2.0	U F1 F2	9.17	1.26	J F1 F2	ug/L		14	44 - 130	129	30
Benzo[b]fluoranthene	2.0	U F1 F2	9.17	1.28	J F1 F2	ug/L		14	44 - 130	124	40
Benzo[g,h,i]perylene	2.0	U F1 F2	9.17	1.33	J F1 F2	ug/L		14	31 - 130	124	40
Benzo[k]fluoranthene	2.0	U F1 F2	9.17	1.54	J F1 F2	ug/L		17	39 - 131	124	30
1,1'-Biphenyl	9.9	U F1 F2	9.17	1.98	J F1 F2	ug/L		22	35 - 130	96	30
Bis(2-chloroethoxy)methane	9.9	U F1 F2	9.17	2.15	J F1 F2	ug/L		23	33 - 130	106	50
Bis(2-chloroethyl)ether	9.9	U F1 F2	9.17	1.85	J F1 F2	ug/L		20	29 - 130	108	50
Bis(2-ethylhexyl) phthalate	50	U	9.17	46	U	ug/L		NC	40 - 130	NC	30
4-Bromophenyl phenyl ether	9.9	U F1 F2	9.17	2.07	J F1 F2	ug/L		23	41 - 130	109	20
Butyl benzyl phthalate	9.9	U F1 F2	9.17	2.10	J F1 F2	ug/L		23	42 - 130	108	20
Caprolactam	9.9	U F1	9.17	9.2	U F1	ug/L		0	25 - 130	NC	50
Carbazole	20	U F1 F2	9.17	4.10	J F1 F2	ug/L		45	48 - 130	83	50
4-Chloroaniline	40	U	9.17	37	U	ug/L		NC	10 - 130	NC	50
4-Chloro-3-methylphenol	9.9	U F1 F2	9.17	2.70	J F1 F2	ug/L		29	49 - 122	124	30
2-Chloronaphthalene	9.9	U F1 F2	9.17	1.67	J F1 F2	ug/L		18	31 - 130	93	30
2-Chlorophenol	9.9	U F1 F2	9.17	2.24	J F1 F2	ug/L		24	44 - 130	97	30
4-Chlorophenyl phenyl ether	9.9	U F1 F2	9.17	1.84	J F1 F2	ug/L		20	39 - 130	98	20
Chrysene	2.0	U F1 F2	9.17	1.51	J F1 F2	ug/L		16	47 - 130	125	30
Dibenz(a,h)anthracene	2.0	U F1 F2	9.17	1.52	J F1 F2	ug/L		17	36 - 130	121	30
Dibenzofuran	9.9	U F1 F2	9.17	2.04	J F1 F2	ug/L		22	38 - 130	96	20
3,3'-Dichlorobenzidine	200	U	9.17	180	U	ug/L		NC	10 - 142	NC	50
2,4-Dichlorophenol	9.9	U F1 F2	9.17	2.40	J F1 F2	ug/L		26	49 - 130	98	30
Diethyl phthalate	9.9	U F1 F2	9.17	3.03	J F1 F2	ug/L		33	46 - 130	71	20
2,4-Dimethylphenol	180	F2	9.17	90.9	4 F2	ug/L		-1021	37 - 130	91	30
Dimethyl phthalate	9.9	U F1	9.17	9.2	U F1	ug/L		0	48 - 130	NC	20
Di-n-butyl phthalate	9.9	U F1	9.17	9.2	U F1	ug/L		0	43 - 130	NC	20
4,6-Dinitro-2-methylphenol	50	U F1	18.3	46	U F1	ug/L		0	18 - 147	NC	30
2,4-Dinitrophenol	99	U F1	18.3	92	U F1	ug/L		0	16 - 147	NC	50
2,4-Dinitrotoluene	9.9	U F1 F2	9.17	3.12	J F1 F2	ug/L		34	51 - 130	67	20

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 680-128237-2 MSD — **Client Sample ID: 1600780-MW-A**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444483 — **Prep Batch: 444265**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,6-Dinitrotoluene	9.9	U F1 F2	9.17	2.80	J F1 F2	ug/L		31	51 - 130	95	20
Di-n-octyl phthalate	9.9	U F1	9.17	9.2	U F1	ug/L		0	43 - 130	NC	30
Fluoranthene	2.0	U F1 F2	9.17	1.83	F1 F2	ug/L		20	50 - 130	119	20
Fluorene	2.0	U F1 F2	9.17	2.23	F1 F2	ug/L		24	43 - 130	97	20
Hexachlorobenzene	9.9	U F1 F2	9.17	1.33	J F1 F2	ug/L		15	42 - 130	128	20
Hexachlorobutadiene	9.9	U F1 F2	9.17	1.24	J F1 F2	ug/L		13	23 - 130	72	30
Hexachlorocyclopentadiene	20	U F1	9.17	18	U F1	ug/L		0	10 - 130	NC	50
Hexachloroethane	9.9	U F1	9.17	9.2	U F1	ug/L		0	23 - 130	NC	30
Indeno[1,2,3-cd]pyrene	2.0	U F1 F2	9.17	1.31	J F1 F2	ug/L		14	30 - 130	125	30
Isophorone	9.9	U F1	9.17	3.50	J F1	ug/L		38	46 - 130	NC	30
2-Methylnaphthalene	68	F2	9.17	50.8	4 F2	ug/L		-189	33 - 130	86	30
2-Methylphenol	260	E F2	9.17	122	4 F2	ug/L		-1462	42 - 130	87	30
3 & 4 Methylphenol	460	E F2	9.17	223	E 4 F2	ug/L		-2599	44 - 130	88	30
Naphthalene	170	F2	9.17	93.7	4 F2	ug/L		-781	40 - 130	85	30
2-Nitroaniline	9.9	U F1 F2	9.17	2.83	J F1 F2	ug/L		31	46 - 130	136	20
3-Nitroaniline	50	U F1	9.17	46	U F1	ug/L		0	14 - 130	NC	50
4-Nitroaniline	50	U F1	9.17	46	U F1	ug/L		0	38 - 130	NC	50
Nitrobenzene	9.9	U F1	9.17	9.2	U F1	ug/L		0	41 - 130	NC	30
2-Nitrophenol	9.9	U F1 F2	9.17	2.27	J F1 F2	ug/L		25	50 - 130	97	30
4-Nitrophenol	79	U	18.3	73	U	ug/L		NC	25 - 135	NC	30
N-Nitrosodi-n-propylamine	9.9	U F1	9.17	9.2	U F1	ug/L		0	39 - 130	NC	30
N-Nitrosodiphenylamine	9.9	U F1	9.17	9.2	U F1	ug/L		0	27 - 130	NC	40
2,2'-oxybis[1-chloropropane]	9.9	U F1	9.17	9.2	U F1	ug/L		0	24 - 130	NC	30
Pentachlorophenol	50	U F2	18.3	7.35	J F2	ug/L		40	27 - 134	90	20
Phenanthrene	2.0	U F1 F2	9.17	2.97	F1 F2	ug/L		32	49 - 130	103	20
Phenol	170	F2	9.17	74.7	4 F2	ug/L		-1002	37 - 130	94	40
Pyrene	2.0	U F1 F2	9.17	1.78	J F1 F2	ug/L		19	45 - 130	112	20
2,4,5-Trichlorophenol	9.9	U F1 F2	9.17	2.35	J F1 F2	ug/L		26	49 - 130	92	20
2,4,6-Trichlorophenol	9.9	U F1 F2	9.17	2.41	J F1 F2	ug/L		26	48 - 130	99	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*0*	*D*	*31 - 107*
2-Fluorophenol	*0*	*D*	*18 - 112*
Nitrobenzene-d5 (Surr)	*0*	*D*	*37 - 103*
Phenol-d5 (Surr)	*0*	*D*	*20 - 113*
Terphenyl-d14 (Surr)	*0*	*D*	*22 - 121*
2,4,6-Tribromophenol (Surr)	*0*	*D*	*39 - 133*

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 680-444297/37 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444297

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.050	U	0.050	0.023	mg/L			08/03/16 19:16	1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 680-444297/38 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444297

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.999	1.06		mg/L		106	90 - 110

Lab Sample ID: LCSD 680-444297/39 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444297

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	0.999	1.06		mg/L		106	90 - 110	0	15

Lab Sample ID: 680-128237-J-1 MS — **Client Sample ID: 680-128237-J-1 MS**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444297

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.050	U	0.999	1.05		mg/L		105	80 - 120

Lab Sample ID: 680-128237-J-1 MSD — **Client Sample ID: 680-128237-J-1 MSD**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444297

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	0.050	U	0.999	1.07		mg/L		107	80 - 120	2	15

Lab Sample ID: MB 680-445446/2 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445446

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.50	U	0.50	0.20	mg/L			08/12/16 10:28	1

Lab Sample ID: LCS 680-445446/3 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445446

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	10.4		mg/L		104	90 - 110

Lab Sample ID: LCSD 680-445446/4 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445446

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10.0	10.2		mg/L		102	90 - 110	1	15

Lab Sample ID: MB 680-445467/37 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445467

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.0	U	1.0	0.40	mg/L			08/12/16 01:36	1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 680-445467/37 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445467

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.50	U	0.50	0.20	mg/L			08/12/16 01:36	1
Bromide	0.50	U	0.50	0.20	mg/L			08/12/16 01:36	1

Lab Sample ID: LCS 680-445467/38 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445467

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	10.0	10.3		mg/L		103	90 - 110
Chloride	10.0	10.4		mg/L		104	90 - 110
Bromide	10.0	10.7		mg/L		107	90 - 110

Lab Sample ID: LCSD 680-445467/39 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445467

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	10.0	10.3		mg/L		103	90 - 110	0	15
Chloride	10.0	10.4		mg/L		104	90 - 110	0	15
Bromide	10.0	10.7		mg/L		107	90 - 110	0	15

Lab Sample ID: 680-128237-2 MS — **Client Sample ID: 1600780-MW-A**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445467

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	1.9		10.0	11.8		mg/L		99	80 - 120
Chloride	120	E	10.0	129	E 4	mg/L		84	80 - 120
Bromide	0.59		10.0	11.4		mg/L		108	80 - 120

Lab Sample ID: 680-128237-2 MSD — **Client Sample ID: 1600780-MW-A**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445467

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	1.9		10.0	12.0		mg/L		101	80 - 120	1	15
Chloride	120	E	10.0	129	E 4	mg/L		78	80 - 120	0	15
Bromide	0.59		10.0	11.4		mg/L		108	80 - 120	0	15

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-444731/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444929 — **Prep Batch: 444731**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	20	U	20	5.3	ug/L		08/08/16 10:53	08/09/16 01:54	1
Arsenic	20	U	20	6.2	ug/L		08/08/16 10:53	08/09/16 01:54	1
Beryllium	4.0	U	4.0	0.10	ug/L		08/08/16 10:53	08/09/16 01:54	1

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

Lab Sample ID: MB 680-444731/1-A
Matrix: Water
Analysis Batch: 444929

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 444731

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	1.0	ug/L		08/08/16 10:53	08/09/16 01:54	1
Calcium	500	U	500	25	ug/L		08/08/16 10:53	08/09/16 01:54	1
Chromium	10	U	10	1.6	ug/L		08/08/16 10:53	08/09/16 01:54	1
Copper	20	U	20	1.8	ug/L		08/08/16 10:53	08/09/16 01:54	1
Iron	50	U	50	17	ug/L		08/08/16 10:53	08/09/16 01:54	1
Lead	10	U	10	3.9	ug/L		08/08/16 10:53	08/09/16 01:54	1
Magnesium	500	U	500	33	ug/L		08/08/16 10:53	08/09/16 01:54	1
Manganese	10	U	10	1.0	ug/L		08/08/16 10:53	08/09/16 01:54	1
Nickel	40	U	40	2.1	ug/L		08/08/16 10:53	08/09/16 01:54	1
Potassium	1000	U	1000	17	ug/L		08/08/16 10:53	08/09/16 01:54	1
Selenium	20	U	20	9.9	ug/L		08/08/16 10:53	08/09/16 01:54	1
Silver	10	U	10	0.60	ug/L		08/08/16 10:53	08/09/16 01:54	1
Sodium	1000	U	1000	480	ug/L		08/08/16 10:53	08/09/16 01:54	1
Thallium	25	U	25	6.0	ug/L		08/08/16 10:53	08/09/16 01:54	1
Zinc	20	U	20	7.0	ug/L		08/08/16 10:53	08/09/16 01:54	1

Lab Sample ID: LCS 680-444731/2-A
Matrix: Water
Analysis Batch: 444929

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 444731

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	51.0		ug/L		102	80 - 120
Arsenic	100	103		ug/L		103	80 - 120
Beryllium	50.0	53.3		ug/L		107	80 - 120
Cadmium	50.0	50.6		ug/L		101	80 - 120
Calcium	5000	4940		ug/L		99	80 - 120
Chromium	100	100		ug/L		100	80 - 120
Copper	100	104		ug/L		104	80 - 120
Iron	5000	4870		ug/L		97	80 - 120
Lead	500	493		ug/L		99	80 - 120
Magnesium	5000	4940		ug/L		99	80 - 120
Manganese	500	513		ug/L		103	80 - 120
Nickel	100	99.1		ug/L		99	80 - 120
Potassium	8000	8530		ug/L		107	80 - 120
Selenium	100	105		ug/L		105	80 - 120
Silver	50.0	49.3		ug/L		99	80 - 120
Sodium	5000	4700		ug/L		94	80 - 120
Thallium	40.0	36.8		ug/L		92	80 - 120
Zinc	100	102		ug/L		102	80 - 120

Lab Sample ID: MB 680-446051/1-A
Matrix: Water
Analysis Batch: 446234

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 446051

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	20	U	20	5.3	ug/L		08/17/16 09:22	08/18/16 08:02	1
Arsenic	20	U	20	6.2	ug/L		08/17/16 09:22	08/18/16 08:02	1
Beryllium	4.0	U	4.0	0.10	ug/L		08/17/16 09:22	08/18/16 08:02	1
Cadmium	5.0	U	5.0	1.0	ug/L		08/17/16 09:22	08/18/16 08:02	1

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

Lab Sample ID: MB 680-446051/1-A
Matrix: Water
Analysis Batch: 446234

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 446051

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	500	U	500	25	ug/L		08/17/16 09:22	08/18/16 08:02	1
Chromium	10	U	10	1.6	ug/L		08/17/16 09:22	08/18/16 08:02	1
Copper	20	U	20	1.8	ug/L		08/17/16 09:22	08/18/16 08:02	1
Iron	50	U	50	17	ug/L		08/17/16 09:22	08/18/16 08:02	1
Lead	10	U	10	3.9	ug/L		08/17/16 09:22	08/18/16 08:02	1
Magnesium	500	U	500	33	ug/L		08/17/16 09:22	08/18/16 08:02	1
Manganese	10	U	10	1.0	ug/L		08/17/16 09:22	08/18/16 08:02	1
Nickel	40	U	40	2.1	ug/L		08/17/16 09:22	08/18/16 08:02	1
Potassium	1000	U	1000	17	ug/L		08/17/16 09:22	08/18/16 08:02	1
Selenium	20	U	20	9.9	ug/L		08/17/16 09:22	08/18/16 08:02	1
Silver	10	U	10	0.60	ug/L		08/17/16 09:22	08/18/16 08:02	1
Sodium	1000	U	1000	480	ug/L		08/17/16 09:22	08/18/16 08:02	1
Thallium	25	U	25	6.0	ug/L		08/17/16 09:22	08/18/16 08:02	1
Zinc	20	U	20	7.0	ug/L		08/17/16 09:22	08/18/16 08:02	1

Lab Sample ID: LCS 680-446051/2-A
Matrix: Water
Analysis Batch: 446234

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 446051

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	50.6		ug/L		101	80 - 120
Arsenic	100	93.6		ug/L		94	80 - 120
Beryllium	50.0	50.0		ug/L		100	80 - 120
Cadmium	50.0	49.0		ug/L		98	80 - 120
Calcium	5000	4690		ug/L		94	80 - 120
Chromium	100	96.6		ug/L		97	80 - 120
Copper	100	98.2		ug/L		98	80 - 120
Iron	5000	4620		ug/L		92	80 - 120
Lead	500	475		ug/L		95	80 - 120
Magnesium	5000	4700		ug/L		94	80 - 120
Manganese	500	488		ug/L		98	80 - 120
Nickel	100	95.6		ug/L		96	80 - 120
Potassium	8000	7520		ug/L		94	80 - 120
Selenium	100	95.5		ug/L		96	80 - 120
Silver	50.0	43.3		ug/L		87	80 - 120
Sodium	5000	4510		ug/L		90	80 - 120
Thallium	40.0	39.1		ug/L		98	80 - 120
Zinc	100	96.3		ug/L		96	80 - 120

Lab Sample ID: 680-128237-2 MS
Matrix: Water
Analysis Batch: 446234

Client Sample ID: 1600780-MW-A
Prep Type: Dissolved
Prep Batch: 446051

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	20	U	50.0	45.7		ug/L		91	75 - 125
Arsenic	21		100	115		ug/L		94	75 - 125
Beryllium	4.0	U	50.0	48.9		ug/L		98	75 - 125
Cadmium	5.0	U	50.0	46.8		ug/L		94	75 - 125
Calcium	240000		5000	234000	4	ug/L		-174	75 - 125

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

Lab Sample ID: 680-128237-2 MS — **Client Sample ID: 1600780-MW-A**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 446234 — **Prep Batch: 446051**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	3.1	J	100	96.4		ug/L		93	75 - 125
Copper	3.2	J	100	99.7		ug/L		96	75 - 125
Iron	44000		5000	45900	4	ug/L		39	75 - 125
Lead	10	U	500	458		ug/L		92	75 - 125
Magnesium	66000		5000	66800	4	ug/L		20	75 - 125
Manganese	1200		500	1570		ug/L		83	75 - 125
Nickel	7.7	J	100	96.9		ug/L		89	75 - 125
Potassium	1200		8000	9440		ug/L		103	75 - 125
Selenium	20	U	100	94.8		ug/L		95	75 - 125
Silver	10	U	50.0	46.3		ug/L		93	75 - 125
Sodium	79000		5000	79800	4	ug/L		19	75 - 125
Thallium	25	U	40.0	35.9		ug/L		90	75 - 125
Zinc	7.3	J	100	96.2		ug/L		89	75 - 125

Lab Sample ID: 680-128237-2 MSD — **Client Sample ID: 1600780-MW-A**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 446234 — **Prep Batch: 446051**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	20	U	50.0	47.1		ug/L		94	75 - 125	3	20
Arsenic	21		100	120		ug/L		98	75 - 125	4	20
Beryllium	4.0	U	50.0	49.3		ug/L		99	75 - 125	1	20
Cadmium	5.0	U	50.0	47.2		ug/L		94	75 - 125	1	20
Calcium	240000		5000	236000	4	ug/L		-118	75 - 125	1	20
Chromium	3.1	J	100	97.2		ug/L		94	75 - 125	1	20
Copper	3.2	J	100	100		ug/L		97	75 - 125	1	20
Iron	44000		5000	46500	4	ug/L		49	75 - 125	1	20
Lead	10	U	500	462		ug/L		92	75 - 125	1	20
Magnesium	66000		5000	67700	4	ug/L		37	75 - 125	1	20
Manganese	1200		500	1590		ug/L		87	75 - 125	1	20
Nickel	7.7	J	100	98.2		ug/L		90	75 - 125	1	20
Potassium	1200		8000	9510		ug/L		104	75 - 125	1	20
Selenium	20	U	100	92.1		ug/L		92	75 - 125	3	20
Silver	10	U	50.0	47.5		ug/L		95	75 - 125	3	20
Sodium	79000		5000	81000	4	ug/L		42	75 - 125	1	20
Thallium	25	U	40.0	36.6		ug/L		91	75 - 125	2	20
Zinc	7.3	J	100	97.1		ug/L		90	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-444468/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444770 — **Prep Batch: 444468**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.080	ug/L		08/05/16 09:31	08/05/16 18:04	1

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

Lab Sample ID: LCS 680-444468/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444770 — **Prep Batch: 444468**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.70		ug/L		108	80 - 120

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 680-445048/7 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445048

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	5.0	U	5.0	5.0	mg/L			08/09/16 17:14	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	5.0	mg/L			08/09/16 17:14	1

Lab Sample ID: LCS 680-445048/8 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445048

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	250	232		mg/L		93	80 - 120

Lab Sample ID: LCSD 680-445048/34 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445048

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity	250	249		mg/L		99	80 - 120	7	30

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 680-444749/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444749

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			08/08/16 12:17	1

Lab Sample ID: LCS 680-444749/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444749

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	59.0	56.0		mg/L		95	80 - 120

Lab Sample ID: LCSD 680-444749/3 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444749

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids	59.0	52.0		mg/L		88	80 - 120	7	25

Method: 350.1-1993 R2.0 - Nitrogen, Ammonia

Lab Sample ID: MB 680-445006/11 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445006

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.25	U	0.25	0.10	mg/L			08/09/16 11:58	1

Lab Sample ID: LCS 680-445006/12 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445006

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.01		mg/L		101	90 - 110

Lab Sample ID: LCSD 680-445006/25 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445006

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia	1.00	1.01		mg/L		101	90 - 110	1	30

Method: 365.4-1974 - Phosphorus, Total

Lab Sample ID: MB 680-445443/10-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445740 — **Prep Batch: 445443**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	0.10	U	0.10	0.041	mg/L		08/12/16 09:49	08/15/16 11:02	1

Lab Sample ID: LCS 680-445443/11-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445740 — **Prep Batch: 445443**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	2.00	1.96		mg/L		98	60 - 140

Method: 376.1-1978 - Sulfide

Lab Sample ID: MB 680-444847/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444847

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	1.0	U	1.0	1.0	mg/L			08/09/16 05:10	1

Lab Sample ID: LCS 680-444847/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444847

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	10.0	10.7		mg/L		107	75 - 125

Method: 376.1-1978 - Sulfide (Continued)

Lab Sample ID: LCSD 680-444847/3
Matrix: Water
Analysis Batch: 444847

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide			10.0	10.6		mg/L		106	75 - 125	2	30

Lab Sample ID: 680-128237-2 DU
Matrix: Water
Analysis Batch: 444847

Client Sample ID: 1600780-MW-A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfide	1.0	U		1.0	U	mg/L				NC	30

QC Association Summary

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128237-1

GC/MS VOA

Analysis Batch: 444283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128237-1	1600780-FB-1	Total/NA	Water	8260B	
680-128237-3	Trip Blank	Total/NA	Water	8260B	
MB 680-444283/9	Method Blank	Total/NA	Water	8260B	
LCS 680-444283/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-444283/5	Lab Control Sample Dup	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 444265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128237-2	1600780-MW-A	Total/NA	Water	3520C	
680-128237-2 - DL	1600780-MW-A	Total/NA	Water	3520C	
MB 680-444265/4-A	Method Blank	Total/NA	Water	3520C	
LCS 680-444265/5-A	Lab Control Sample	Total/NA	Water	3520C	
680-128237-2 MS	1600780-MW-A	Total/NA	Water	3520C	
680-128237-2 MSD	1600780-MW-A	Total/NA	Water	3520C	

Analysis Batch: 444483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128237-2	1600780-MW-A	Total/NA	Water	8270D LL	444265
MB 680-444265/4-A	Method Blank	Total/NA	Water	8270D LL	444265
LCS 680-444265/5-A	Lab Control Sample	Total/NA	Water	8270D LL	444265
680-128237-2 MS	1600780-MW-A	Total/NA	Water	8270D LL	444265
680-128237-2 MSD	1600780-MW-A	Total/NA	Water	8270D LL	444265

Analysis Batch: 444639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128237-2 - DL	1600780-MW-A	Total/NA	Water	8270D LL	444265

HPLC/IC

Analysis Batch: 444297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128237-2	1600780-MW-A	Total/NA	Water	300.0-1993 R2.1	
MB 680-444297/37	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-444297/38	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-444297/39	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-128237-J-1 MS	680-128237-J-1 MS	Total/NA	Water	300.0-1993 R2.1	
680-128237-J-1 MSD	680-128237-J-1 MSD	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 445446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128237-2	1600780-MW-A	Total/NA	Water	300.0-1993 R2.1	
MB 680-445446/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-445446/3	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-445446/4	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 445467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128237-2	1600780-MW-A	Total/NA	Water	300.0-1993 R2.1	

HPLC/IC (Continued)

Analysis Batch: 445467 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-445467/37	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-445467/38	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-445467/39	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-128237-2 MS	1600780-MW-A	Total/NA	Water	300.0-1993 R2.1	
680-128237-2 MSD	1600780-MW-A	Total/NA	Water	300.0-1993 R2.1	

Metals

Prep Batch: 444468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128237-2	1600780-MW-A	Total/NA	Water	7470A	
MB 680-444468/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-444468/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 444731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128237-2	1600780-MW-A	Total/NA	Water	3010A	
MB 680-444731/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-444731/2-A	Lab Control Sample	Total/NA	Water	3010A	

Analysis Batch: 444770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128237-2	1600780-MW-A	Total/NA	Water	7470A	444468
MB 680-444468/1-A	Method Blank	Total/NA	Water	7470A	444468
LCS 680-444468/2-A	Lab Control Sample	Total/NA	Water	7470A	444468

Analysis Batch: 444929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-444731/1-A	Method Blank	Total/NA	Water	6010C	444731
LCS 680-444731/2-A	Lab Control Sample	Total/NA	Water	6010C	444731

Analysis Batch: 445803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128237-2	1600780-MW-A	Total/NA	Water	6010C	444731

Prep Batch: 446051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128237-2	1600780-MW-A	Dissolved	Water	3010A	
MB 680-446051/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-446051/2-A	Lab Control Sample	Total/NA	Water	3010A	
680-128237-2 MS	1600780-MW-A	Dissolved	Water	3010A	
680-128237-2 MSD	1600780-MW-A	Dissolved	Water	3010A	

Analysis Batch: 446234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128237-2	1600780-MW-A	Dissolved	Water	6010C	446051
MB 680-446051/1-A	Method Blank	Total/NA	Water	6010C	446051
LCS 680-446051/2-A	Lab Control Sample	Total/NA	Water	6010C	446051
680-128237-2 MS	1600780-MW-A	Dissolved	Water	6010C	446051
680-128237-2 MSD	1600780-MW-A	Dissolved	Water	6010C	446051

QC Association Summary

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128237-1

General Chemistry

Analysis Batch: 444749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128237-2	1600780-MW-A	Total/NA	Water	2540C-2011	
MB 680-444749/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-444749/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-444749/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	

Analysis Batch: 444847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128237-2	1600780-MW-A	Total/NA	Water	376.1-1978	
MB 680-444847/1	Method Blank	Total/NA	Water	376.1-1978	
LCS 680-444847/2	Lab Control Sample	Total/NA	Water	376.1-1978	
LCSD 680-444847/3	Lab Control Sample Dup	Total/NA	Water	376.1-1978	
680-128237-2 DU	1600780-MW-A	Total/NA	Water	376.1-1978	

Analysis Batch: 445006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128237-2	1600780-MW-A	Total/NA	Water	350.1-1993 R2.0	
MB 680-445006/11	Method Blank	Total/NA	Water	350.1-1993 R2.0	
LCS 680-445006/12	Lab Control Sample	Total/NA	Water	350.1-1993 R2.0	
LCSD 680-445006/25	Lab Control Sample Dup	Total/NA	Water	350.1-1993 R2.0	

Analysis Batch: 445048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128237-2	1600780-MW-A	Total/NA	Water	2320B-2011	
MB 680-445048/7	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-445048/8	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-445048/34	Lab Control Sample Dup	Total/NA	Water	2320B-2011	

Prep Batch: 445443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128237-2	1600780-MW-A	Total/NA	Water	Digestion	
MB 680-445443/10-A	Method Blank	Total/NA	Water	Digestion	
LCS 680-445443/11-A	Lab Control Sample	Total/NA	Water	Digestion	

Analysis Batch: 445740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128237-2	1600780-MW-A	Total/NA	Water	365.4-1974	445443
MB 680-445443/10-A	Method Blank	Total/NA	Water	365.4-1974	445443
LCS 680-445443/11-A	Lab Control Sample	Total/NA	Water	365.4-1974	445443

Lab Chronicle

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128237-1

Client Sample ID: 1600780-FB-1

Lab Sample ID: 680-128237-1
Date Collected: 08/02/16 15:05
Matrix: Water
Date Received: 08/03/16 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	444283	08/04/16 15:09	SMS	TAL SAV
	Instrument ID:	CMSP2								

Client Sample ID: 1600780-MW-A

Lab Sample ID: 680-128237-2
Date Collected: 08/02/16 16:23
Matrix: Water
Date Received: 08/03/16 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			504.8 mL	.5 mL	444265	08/04/16 15:13	RBS	TAL SAV
Total/NA	Analysis	8270D LL		10			444483	08/05/16 17:43	JEM	TAL SAV
	Instrument ID:	CMSF								
Total/NA	Prep	3520C	DL		504.8 mL	.5 mL	444265	08/04/16 15:13	RBS	TAL SAV
Total/NA	Analysis	8270D LL	DL	50			444639	08/06/16 17:36	JEM	TAL SAV
	Instrument ID:	CMSF								
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	444297	08/03/16 20:55	ALR	TAL SAV
	Instrument ID:	CICG								
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	445467	08/12/16 06:32	JRJ	TAL SAV
	Instrument ID:	CICH								
Total/NA	Analysis	300.0-1993 R2.1		5	5 mL	5 mL	445446	08/12/16 12:30	JRJ	TAL SAV
	Instrument ID:	CICH								
Dissolved	Prep	3010A			50 mL	50 mL	446051	08/17/16 09:22	AJR	TAL SAV
Dissolved	Analysis	6010C		1			446234	08/18/16 08:19	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Prep	3010A			50 mL	50 mL	444731	08/08/16 10:53	AJR	TAL SAV
Total/NA	Analysis	6010C		1			445803	08/15/16 14:11	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Prep	7470A			50 mL	50 mL	444468	08/05/16 09:31	JKL	TAL SAV
Total/NA	Analysis	7470A		1			444770	08/05/16 18:59	JKL	TAL SAV
	Instrument ID:	LEEMAN2								
Total/NA	Analysis	2320B-2011		1			445048	08/09/16 17:57	JCM	TAL SAV
	Instrument ID:	MANTECH								
Total/NA	Analysis	2540C-2011		1	50 mL	100 mL	444749	08/08/16 12:17	JCM	TAL SAV
	Instrument ID:	NOEQUIP								
Total/NA	Analysis	350.1-1993 R2.0		1	2 mL	2 mL	445006	08/09/16 11:49	ALS	TAL SAV
	Instrument ID:	KONELAB1								
Total/NA	Prep	Digestion			20 mL	20 mL	445443	08/12/16 09:49	CFJ	TAL SAV
Total/NA	Analysis	365.4-1974		1	2 mL	2 mL	445740	08/15/16 11:19	JER	TAL SAV
	Instrument ID:	LACHAT3								
Total/NA	Analysis	376.1-1978		1	250 mL	250 mL	444847	08/09/16 05:10	DAM	TAL SAV
	Instrument ID:	NOEQUIP								

Lab Chronicle

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128237-1

Client Sample ID: Trip Blank

Lab Sample ID: 680-128237-3

Date Collected: 08/02/16 00:00

Matrix: Water

Date Received: 08/03/16 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	444283	08/04/16 14:24	SMS	TAL SAV
	Instrument ID:	CMSP2								

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Certification Summary

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128237-1

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-17
A2LA	ISO/IEC 17025		399.01	02-28-17
Alabama	State Program	4	41450	06-30-17
Alaska (UST)	State Program	10	UST-104	11-05-16
Arkansas DEQ	State Program	6	88-0692	01-31-17
California	State Program	9	2939	07-31-16 *
Colorado	State Program	8	N/A	12-31-16
Connecticut	State Program	1	PH-0161	03-31-17
Florida	NELAP	4	E87052	06-30-17
GA Dept. of Agriculture	State Program	4	N/A	06-12-17
Georgia	State Program	4	N/A	06-30-17
Georgia	State Program	4	803	06-30-17
Guam	State Program	9	15-005r	04-16-17
Hawaii	State Program	9	N/A	06-30-17
Illinois	NELAP	5	200022	11-30-16
Indiana	State Program	5	N/A	06-30-17
Iowa	State Program	7	353	06-30-17
Kentucky (DW)	State Program	4	90084	12-31-16
Kentucky (UST)	State Program	4	18	06-30-17
Kentucky (WW)	State Program	4	90084	12-31-16
Louisiana	NELAP	6	30690	06-30-17
Louisiana (DW)	NELAP	6	LA160019	12-31-16
Maine	State Program	1	GA00006	09-24-18
Maryland	State Program	3	250	12-31-16
Massachusetts	State Program	1	M-GA006	06-30-17
Michigan	State Program	5	9925	06-30-17
Mississippi	State Program	4	N/A	06-30-16 *
Nebraska	State Program	7	TestAmerica-Savannah	06-30-17
New Jersey	NELAP	2	GA769	06-30-17
New Mexico	State Program	6	N/A	06-30-17
New York	NELAP	2	10842	03-31-17
North Carolina (DW)	State Program	4	13701	07-31-17
North Carolina (WW/SW)	State Program	4	269	12-31-16
Oklahoma	State Program	6	9984	08-31-17
Pennsylvania	NELAP	3	68-00474	06-30-17
Puerto Rico	State Program	2	GA00006	12-31-16
South Carolina	State Program	4	98001	06-30-17
Tennessee	State Program	4	TN02961	06-30-17
Texas	NELAP	6	T104704185-15-8	11-30-16
USDA	Federal		SAV 3-04	06-11-17
Virginia	NELAP	3	460161	06-14-17
Washington	State Program	10	C805	06-10-17
West Virginia (DW)	State Program	3	9950C	12-31-16
West Virginia DEP	State Program	3	094	08-31-16
Wisconsin	State Program	5	999819810	08-31-17
Wyoming	State Program	8	8TMS-L	06-30-16 *

* Certification renewal pending - certification considered valid.

Method Summary

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128237-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL SAV
300.0-1993 R2.1	Anions, Ion Chromatography	MCAWW	TAL SAV
6010C	Metals (ICP)	SW846	TAL SAV
7470A	Mercury (CVAA)	SW846	TAL SAV
2320B-2011	Alkalinity, Total	SM	TAL SAV
2540C-2011	Total Dissolved Solids (Dried at 180 °C)	SM	TAL SAV
350.1-1993 R2.0	Nitrogen, Ammonia	MCAWW	TAL SAV
365.4-1974	Phosphorus, Total	EPA	TAL SAV
376.1-1978	Sulfide	MCAWW	TAL SAV

Protocol References:

EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater",
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number 113639

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Lab Proj # 680-16768

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: Zill LLC	PROJECT NO.: GEI 1600780	PROJECT LOCATION (STATE):	PAGE 1 OF 1
TAL (LAB) PROJECT MANAGER: Kathy Smith	P.O. NUMBER:	CONTRACT NO.:	STANDARD REPORT DELIVERY ●
CLIENT (SITE) PM: Lisa Reyenga	CLIENT PHONE: 817-380-3901	CLIENT FAX:	DATE DUE
CLIENT NAME: GEI Consultants	CLIENT E-MAIL: lreyenga@geiconsultants.com		EXPEDITED REPORT DELIVERY (SURCHARGE) ○
CLIENT ADDRESS: 4601 DTC Blvd #900 Denver CO 80237			DATE DUE
COMPANY CONTRACTING THIS WORK (if applicable):			NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

MATRIX TYPE (COMPOSITE (C) OR GRAB (G) INDICATE): AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

REQUIRED ANALYSIS / NUMBER OF CONTAINERS SUBMITTED

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	8260 (HCl)	8270	PP Metals (HNO_3)	EPA 6010 (HNO_3)	Nitrate	Sulfate	Sulfide (NaOH, ZnAc)	Chloride	Bicarbonate	Bromide	Ammonia (H_2SO_4)	Phosphorus (Hg Bi)	TDS	Alkalinity	REMARKS
8-2-16	1505	~~1600780-GSP-9~~	Total = 1														8-2-16
		1600780-FB-1	Total = 13														
8-2-16	1623	1600780-MW-A	Total = 16														HOLD Field Filtered 8270, PP Metals, 6010 Also HOLD 8260 for MW-A

680-128237 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	8/2/16	1800						
RECEIVED BY: (SIGNATURE) FED EX	DATE 8/2/16	TIME 1800	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	08-03-16	0935	YES ○ NO ○	680-	128237	4.0(CF) 4.4°C

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 680-128237-1

Login Number: 128237
List Number: 1
Creator: Banda, Christy S

List Source: TestAmerica Savannah

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-128278-1
Client Project/Site: Zill LLC
Revision: 1

For:
GEI Consultants, Inc.
CentreGreen Two
4000 CentreGreen Way
Suite 180
Cary, North Carolina 27513

Attn: Brooke Bennett

Kathryn Smith

Authorized for release by:
9/30/2016 12:45:42 PM

Kathryn Smith, Project Manager II
(912)354-7858
kathy.smith@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Sample Summary

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128278-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-128278-1	1600780-GSP-19	Water	08/03/16 09:50	08/04/16 09:04
680-128278-2	1600780-MW-17	Water	08/03/16 10:32	08/04/16 09:04
680-128278-6	1600780-TRIP BLANK	Water	08/03/16 00:00	08/04/16 09:04

Job ID: 680-128278-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE
Client: GEI Consultants, Inc.
Project: Zill LLC

Report Number: 680-128278-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT
The samples were received on 08/04/2016; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.6º C and 15.8º C.

Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria: 1600780-RW-Z (680-128278-3), 1600780-FB-2 (680-128278-4) and 1600780-RW-1 (680-128278-5). There was no cooling media present in the cooler. The client was contacted regarding this issue, and the laboratory was instructed to cancel analysis.

VOLATILE ORGANIC COMPOUNDS (GC-MS)
Samples 1600780-GSP-19 (680-128278-1), 1600780-MW-17 (680-128278-2) and 1600780-TRIP BLANK (680-128278-6) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 08/11/2016 and 08/12/2016.

The following analyte recovered outside control limits for the LCSD associated with analytical batch 680-445400: Dichlorodifluoromethane. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-445400.

Samples 1600780-MW-17 (680-128278-2)[100X] and 1600780-MW-17 (680-128278-2)[50X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS) - LOW LEVEL
Samples 1600780-GSP-19 (680-128278-1) and 1600780-MW-17 (680-128278-2) were analyzed for Semivolatile Organic Compounds (GC/MS) - Low level in accordance with EPA SW-846 Method 8270D. The samples were prepared on 08/04/2016 and analyzed on 08/05/2016 and 08/06/2016.

The continuing calibration verification (CCV) analyzed in batch 680-444639 was outside the method criteria for the following analyte(s): Benzaldehyde and Caprolactam. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The continuing calibration verification (CCV) analyzed in batch 680-444483 was outside the method criteria for the following analyte(s): Atrazine, Benzaldehyde and Caprolactam. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Job ID: 680-128278-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

Sample 1600780-MW-17 (680-128278-2)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

METALS (ICP)
Samples 1600780-GSP-19 (680-128278-1) and 1600780-MW-17 (680-128278-2) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 08/10/2016 and 08/17/2016 and analyzed on 08/12/2016 and 08/18/2016.

Calcium and Sodium recovered low for the MS of sample 1600780-GSP-19MS (680-128278-1) in batch 680-445678.

Calcium and Sodium recovered high for the MSD of sample 1600780-GSP-19MSD (680-128278-1) in batch 680-445678.

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

TOTAL MERCURY
Samples 1600780-GSP-19 (680-128278-1) and 1600780-MW-17 (680-128278-2) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 08/05/2016.

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

ALKALINITY
Samples 1600780-GSP-19 (680-128278-1) and 1600780-MW-17 (680-128278-2) were analyzed for alkalinity in accordance with SM 2320B. The samples were analyzed on 08/18/2016 and 08/19/2016.

Reanalysis of the following samples was performed outside of the analytical holding time due to instrument faulted out during initial analysis run sequence. Rerun data confirms initial data. : 1600780-GSP-19 (680-128278-1) and 1600780-MW-17 (680-128278-2).

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

TOTAL DISSOLVED SOLIDS
Samples 1600780-GSP-19 (680-128278-1) and 1600780-MW-17 (680-128278-2) were analyzed for total dissolved solids in accordance with SM 2540C. The samples were analyzed on 08/08/2016 and 08/09/2016.

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

ANIONS BY ION CHROMATOGRAPHY (28 DAY)
Samples 1600780-GSP-19 (680-128278-1) and 1600780-MW-17 (680-128278-2) were analyzed for Anions by Ion Chromatography (28 Day) in accordance with EPA Method 300.0. The samples were analyzed on 08/12/2016 and 08/16/2016.

Samples 1600780-GSP-19 (680-128278-1)[10X] and 1600780-MW-17 (680-128278-2)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

ANIONS BY ION CHROMATOGRAPHY (48 HOUR)
Samples 1600780-GSP-19 (680-128278-1) and 1600780-MW-17 (680-128278-2) were analyzed for Anions by Ion Chromatography (48 Hour) in accordance with EPA Method 300.0. The samples were analyzed on 08/04/2016.

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

AMMONIA
Samples 1600780-GSP-19 (680-128278-1) and 1600780-MW-17 (680-128278-2) were analyzed for ammonia in accordance with EPA Method 350.1. The samples were analyzed on 08/11/2016.

Job ID: 680-128278-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

Ammonia recovered high for the MS/MSD of sample 1600780-GSP-19 (680-128278-1) in batch 680-445377.

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

TOTAL PHOSPHORUS
Samples 1600780-GSP-19 (680-128278-1) and 1600780-MW-17 (680-128278-2) were analyzed for total phosphorus in accordance with EPA Method 365.4. The samples were prepared on 08/12/2016 and analyzed on 08/15/2016.

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

SULFIDE
Samples 1600780-GSP-19 (680-128278-1) and 1600780-MW-17 (680-128278-2) were analyzed for sulfide in accordance with EPA Method 376.1. The samples were analyzed on 08/09/2016.

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

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128278-1

Client Sample ID: 1600780-GSP-19

Lab Sample ID: 680-128278-1

Date Collected: 08/03/16 09:50
Date Received: 08/04/16 09:04

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	7.0	ug/L			08/11/16 11:11	1
Benzene	**2.0**		1.0	0.43	ug/L			08/11/16 11:11	1
Bromobenzene	1.0	U	1.0	0.50	ug/L			08/11/16 11:11	1
Bromochloromethane	1.0	U	1.0	0.45	ug/L			08/11/16 11:11	1
Bromodichloromethane	1.0	U	1.0	0.44	ug/L			08/11/16 11:11	1
Bromoform	1.0	U	1.0	0.43	ug/L			08/11/16 11:11	1
Bromomethane	5.0	U	5.0	2.5	ug/L			08/11/16 11:11	1
2-Butanone (MEK)	10	U	10	3.4	ug/L			08/11/16 11:11	1
Carbon disulfide	2.0	U	2.0	1.0	ug/L			08/11/16 11:11	1
Carbon tetrachloride	1.0	U	1.0	0.33	ug/L			08/11/16 11:11	1
Chlorobenzene	1.0	U	1.0	0.26	ug/L			08/11/16 11:11	1
Chloroethane	5.0	U	5.0	2.5	ug/L			08/11/16 11:11	1
Chloroform	1.0	U	1.0	0.50	ug/L			08/11/16 11:11	1
Chloromethane	1.0	U	1.0	0.40	ug/L			08/11/16 11:11	1
2-Chlorotoluene	1.0	U	1.0	0.27	ug/L			08/11/16 11:11	1
4-Chlorotoluene	1.0	U	1.0	0.45	ug/L			08/11/16 11:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.41	ug/L			08/11/16 11:11	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.40	ug/L			08/11/16 11:11	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			08/11/16 11:11	1
Dibromomethane	1.0	U	1.0	0.35	ug/L			08/11/16 11:11	1
Dichlorodifluoromethane	1.0	U	1.0	0.60	ug/L			08/11/16 11:11	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			08/11/16 11:11	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			08/11/16 11:11	1
1,1-Dichloroethene	1.0	U	1.0	0.36	ug/L			08/11/16 11:11	1
1,2-Dichloroethene, Total	2.0	U	2.0	0.37	ug/L			08/11/16 11:11	1
1,2-Dichloropropane	1.0	U	1.0	0.67	ug/L			08/11/16 11:11	1
1,3-Dichloropropane	1.0	U	1.0	0.34	ug/L			08/11/16 11:11	1
2,2-Dichloropropane	1.0	U	1.0	0.37	ug/L			08/11/16 11:11	1
1,1-Dichloropropene	1.0	U	1.0	0.34	ug/L			08/11/16 11:11	1
Ethylbenzene	1.0	U	1.0	0.33	ug/L			08/11/16 11:11	1
2-Hexanone	10	U	10	2.0	ug/L			08/11/16 11:11	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			08/11/16 11:11	1
Methylene Chloride	5.0	U	5.0	2.5	ug/L			08/11/16 11:11	1
4-Methyl-2-pentanone	10	U	10	2.1	ug/L			08/11/16 11:11	1
Methyl tert-butyl ether	10	U	10	0.30	ug/L			08/11/16 11:11	1
m-Xylene & p-Xylene	**0.37**	**J**	1.0	0.35	ug/L			08/11/16 11:11	1
n-Butylbenzene	1.0	U	1.0	0.47	ug/L			08/11/16 11:11	1
N-Propylbenzene	1.0	U	1.0	0.38	ug/L			08/11/16 11:11	1
o-Xylene	1.0	U	1.0	0.23	ug/L			08/11/16 11:11	1
p-Isopropyltoluene	1.0	U	1.0	0.48	ug/L			08/11/16 11:11	1
sec-Butylbenzene	1.0	U	1.0	0.42	ug/L			08/11/16 11:11	1
Styrene	1.0	U	1.0	0.27	ug/L			08/11/16 11:11	1
tert-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/11/16 11:11	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/11/16 11:11	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.62	ug/L			08/11/16 11:11	1
Tetrachloroethene	1.0	U	1.0	0.74	ug/L			08/11/16 11:11	1
Toluene	1.0	U	1.0	0.48	ug/L			08/11/16 11:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.37	ug/L			08/11/16 11:11	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.42	ug/L			08/11/16 11:11	1

Client Sample ID: 1600780-GSP-19

Lab Sample ID: 680-128278-1

Date Collected: 08/03/16 09:50

Matrix: Water

Date Received: 08/04/16 09:04

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	5.0	U	5.0	2.5	ug/L			08/11/16 11:11	1
1,1,1-Trichloroethane	1.0	U	1.0	0.37	ug/L			08/11/16 11:11	1
1,1,2-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/11/16 11:11	1
Trichloroethene	1.0	U	1.0	0.48	ug/L			08/11/16 11:11	1
Trichlorofluoromethane	1.0	U	1.0	0.42	ug/L			08/11/16 11:11	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.47	ug/L			08/11/16 11:11	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.31	ug/L			08/11/16 11:11	1
Vinyl acetate	2.0	U	2.0	0.81	ug/L			08/11/16 11:11	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			08/11/16 11:11	1
Xylenes, Total	**0.37**	**J**	1.0	0.23	ug/L			08/11/16 11:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*08/11/16 11:11*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 122*		*08/11/16 11:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*73 - 131*		*08/11/16 11:11*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/11/16 11:11*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.095	ug/L		08/04/16 15:13	08/05/16 18:35	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L		08/04/16 15:13	08/05/16 18:35	1
Acetophenone	0.95	U	0.95	0.29	ug/L		08/04/16 15:13	08/05/16 18:35	1
Anthracene	0.19	U	0.19	0.095	ug/L		08/04/16 15:13	08/05/16 18:35	1
Atrazine	3.8	U	3.8	1.9	ug/L		08/04/16 15:13	08/05/16 18:35	1
Benzaldehyde	0.95	U	0.95	0.095	ug/L		08/04/16 15:13	08/05/16 18:35	1
Benzo[a]anthracene	**0.19**		0.19	0.095	ug/L		08/04/16 15:13	08/05/16 18:35	1
Benzo[a]pyrene	**0.19**		0.19	0.095	ug/L		08/04/16 15:13	08/05/16 18:35	1
Benzo[b]fluoranthene	**0.20**		0.19	0.095	ug/L		08/04/16 15:13	08/05/16 18:35	1
Benzo[g,h,i]perylene	**0.21**		0.19	0.095	ug/L		08/04/16 15:13	08/05/16 18:35	1
Benzo[k]fluoranthene	**0.22**		0.19	0.095	ug/L		08/04/16 15:13	08/05/16 18:35	1
1,1'-Biphenyl	0.95	U	0.95	0.095	ug/L		08/04/16 15:13	08/05/16 18:35	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L		08/04/16 15:13	08/05/16 18:35	1
Bis(2-chloroethyl)ether	0.95	U	0.95	0.095	ug/L		08/04/16 15:13	08/05/16 18:35	1
Bis(2-ethylhexyl) phthalate	4.8	U	4.8	1.9	ug/L		08/04/16 15:13	08/05/16 18:35	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L		08/04/16 15:13	08/05/16 18:35	1
Butyl benzyl phthalate	**0.12**	**J**	0.95	0.11	ug/L		08/04/16 15:13	08/05/16 18:35	1
Caprolactam	0.95	U	0.95	0.12	ug/L		08/04/16 15:13	08/05/16 18:35	1
Carbazole	1.9	U	1.9	0.095	ug/L		08/04/16 15:13	08/05/16 18:35	1
4-Chloroaniline	3.8	U	3.8	1.9	ug/L		08/04/16 15:13	08/05/16 18:35	1
4-Chloro-3-methylphenol	0.95	U	0.95	0.11	ug/L		08/04/16 15:13	08/05/16 18:35	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		08/04/16 15:13	08/05/16 18:35	1
2-Chlorophenol	0.95	U	0.95	0.11	ug/L		08/04/16 15:13	08/05/16 18:35	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L		08/04/16 15:13	08/05/16 18:35	1
Chrysene	**0.21**		0.19	0.043	ug/L		08/04/16 15:13	08/05/16 18:35	1
Dibenz(a,h)anthracene	**0.27**		0.19	0.095	ug/L		08/04/16 15:13	08/05/16 18:35	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		08/04/16 15:13	08/05/16 18:35	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		08/04/16 15:13	08/05/16 18:35	1
2,4-Dichlorophenol	0.95	U	0.95	0.095	ug/L		08/04/16 15:13	08/05/16 18:35	1
Diethyl phthalate	0.95	U	0.95	0.11	ug/L		08/04/16 15:13	08/05/16 18:35	1
2,4-Dimethylphenol	1.9	U	1.9	0.66	ug/L		08/04/16 15:13	08/05/16 18:35	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128278-1

Client Sample ID: 1600780-GSP-19

Date Collected: 08/03/16 09:50
Date Received: 08/04/16 09:04

Lab Sample ID: 680-128278-1

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	0.95	U	0.95	0.095	ug/L		08/04/16 15:13	08/05/16 18:35	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		08/04/16 15:13	08/05/16 18:35	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.95	ug/L		08/04/16 15:13	08/05/16 18:35	1
2,4-Dinitrophenol	9.5	U	9.5	1.1	ug/L		08/04/16 15:13	08/05/16 18:35	1
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		08/04/16 15:13	08/05/16 18:35	1
2,6-Dinitrotoluene	0.95	U	0.95	0.12	ug/L		08/04/16 15:13	08/05/16 18:35	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		08/04/16 15:13	08/05/16 18:35	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		08/04/16 15:13	08/05/16 18:35	1
Fluorene	0.19	U	0.19	0.095	ug/L		08/04/16 15:13	08/05/16 18:35	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		08/04/16 15:13	08/05/16 18:35	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		08/04/16 15:13	08/05/16 18:35	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		08/04/16 15:13	08/05/16 18:35	1
Hexachloroethane	0.95	U	0.95	0.48	ug/L		08/04/16 15:13	08/05/16 18:35	1
Indeno[1,2,3-cd]pyrene	**0.21**		0.19	0.095	ug/L		08/04/16 15:13	08/05/16 18:35	1
Isophorone	0.95	U	0.95	0.095	ug/L		08/04/16 15:13	08/05/16 18:35	1
2-Methylnaphthalene	0.19	U	0.19	0.095	ug/L		08/04/16 15:13	08/05/16 18:35	1
2-Methylphenol	1.9	U	1.9	0.71	ug/L		08/04/16 15:13	08/05/16 18:35	1
3 & 4 Methylphenol	1.9	U	1.9	0.63	ug/L		08/04/16 15:13	08/05/16 18:35	1
Naphthalene	0.19	U	0.19	0.095	ug/L		08/04/16 15:13	08/05/16 18:35	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		08/04/16 15:13	08/05/16 18:35	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		08/04/16 15:13	08/05/16 18:35	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		08/04/16 15:13	08/05/16 18:35	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		08/04/16 15:13	08/05/16 18:35	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		08/04/16 15:13	08/05/16 18:35	1
4-Nitrophenol	7.6	U	7.6	3.8	ug/L		08/04/16 15:13	08/05/16 18:35	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		08/04/16 15:13	08/05/16 18:35	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		08/04/16 15:13	08/05/16 18:35	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		08/04/16 15:13	08/05/16 18:35	1
Pentachlorophenol	4.8	U	4.8	0.38	ug/L		08/04/16 15:13	08/05/16 18:35	1
Phenanthrene	0.19	U	0.19	0.095	ug/L		08/04/16 15:13	08/05/16 18:35	1
Phenol	**0.13**	**J**	0.95	0.12	ug/L		08/04/16 15:13	08/05/16 18:35	1
Pyrene	0.19	U	0.19	0.095	ug/L		08/04/16 15:13	08/05/16 18:35	1
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		08/04/16 15:13	08/05/16 18:35	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		08/04/16 15:13	08/05/16 18:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*59*		*31 - 107*	*08/04/16 15:13*	*08/05/16 18:35*	*1*
2-Fluorophenol	*52*		*18 - 112*	*08/04/16 15:13*	*08/05/16 18:35*	*1*
Nitrobenzene-d5 (Surr)	*74*		*37 - 103*	*08/04/16 15:13*	*08/05/16 18:35*	*1*
Phenol-d5 (Surr)	*65*		*20 - 113*	*08/04/16 15:13*	*08/05/16 18:35*	*1*
Terphenyl-d14 (Surr)	*58*		*22 - 121*	*08/04/16 15:13*	*08/05/16 18:35*	*1*
2,4,6-Tribromophenol (Surr)	*70*		*39 - 133*	*08/04/16 15:13*	*08/05/16 18:35*	*1*

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.050	U	0.050	0.023	mg/L			08/04/16 13:01	1
Sulfate	**300**		10	4.0	mg/L			08/16/16 00:28	10
Chloride	**320**		5.0	2.0	mg/L			08/16/16 00:28	10
Bromide	**0.40**	**J**	0.50	0.20	mg/L			08/12/16 20:04	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128278-1

Client Sample ID: 1600780-GSP-19

Lab Sample ID: 680-128278-1
Date Collected: 08/03/16 09:50
Matrix: Water
Date Received: 08/04/16 09:04

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	20	U	20	5.3	ug/L		08/10/16 16:21	08/12/16 13:53	1
Arsenic	**7.8**	**J**	20	6.2	ug/L		08/10/16 16:21	08/12/16 13:53	1
Beryllium	4.0	U	4.0	0.10	ug/L		08/10/16 16:21	08/12/16 13:53	1
Cadmium	5.0	U	5.0	1.0	ug/L		08/10/16 16:21	08/12/16 13:53	1
Calcium	**280000**		500	25	ug/L		08/10/16 16:21	08/12/16 13:53	1
Chromium	10	U	10	1.6	ug/L		08/10/16 16:21	08/12/16 13:53	1
Copper	20	U	20	1.8	ug/L		08/10/16 16:21	08/12/16 13:53	1
Iron	**690**		50	17	ug/L		08/17/16 10:21	08/18/16 09:25	1
Lead	10	U	10	3.9	ug/L		08/10/16 16:21	08/12/16 13:53	1
Magnesium	**54000**		500	33	ug/L		08/10/16 16:21	08/12/16 13:53	1
Manganese	**480**		10	1.0	ug/L		08/10/16 16:21	08/12/16 13:53	1
Nickel	**6.6**	**J**	40	2.1	ug/L		08/10/16 16:21	08/12/16 13:53	1
Potassium	**7900**		1000	17	ug/L		08/10/16 16:21	08/12/16 13:53	1
Selenium	20	U	20	9.9	ug/L		08/10/16 16:21	08/12/16 13:53	1
Silver	10	U	10	0.60	ug/L		08/10/16 16:21	08/12/16 13:53	1
Sodium	**190000**		1000	480	ug/L		08/10/16 16:21	08/12/16 13:53	1
Thallium	25	U	25	6.0	ug/L		08/10/16 16:21	08/12/16 13:53	1
Zinc	20	U	20	7.0	ug/L		08/10/16 16:21	08/12/16 13:53	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.080	ug/L		08/05/16 09:31	08/05/16 18:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**430**	**H**	5.0	5.0	mg/L			08/19/16 13:48	1
Bicarbonate Alkalinity as CaCO3	**430**	**H**	5.0	5.0	mg/L			08/19/16 13:48	1
Ammonia	**0.15**	**J F1**	0.25	0.10	mg/L			08/11/16 15:23	1
Phosphorus	**0.042**	**J**	0.10	0.041	mg/L		08/12/16 09:49	08/15/16 11:16	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**1500**		10	10	mg/L			08/08/16 12:17	1
Sulfide	1.0	U	1.0	1.0	mg/L			08/09/16 05:10	1

Client Sample ID: 1600780-MW-17

Lab Sample ID: 680-128278-2
Date Collected: 08/03/16 10:32
Matrix: Water
Date Received: 08/04/16 09:04

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	500	U	500	350	ug/L			08/11/16 12:13	50
Bromobenzene	50	U	50	25	ug/L			08/11/16 12:13	50
Bromochloromethane	50	U	50	23	ug/L			08/11/16 12:13	50
Bromodichloromethane	50	U	50	22	ug/L			08/11/16 12:13	50
Bromoform	50	U	50	22	ug/L			08/11/16 12:13	50
Bromomethane	250	U	250	130	ug/L			08/11/16 12:13	50
2-Butanone (MEK)	500	U	500	170	ug/L			08/11/16 12:13	50
Carbon disulfide	100	U	100	50	ug/L			08/11/16 12:13	50
Carbon tetrachloride	50	U	50	17	ug/L			08/11/16 12:13	50
Chlorobenzene	50	U	50	13	ug/L			08/11/16 12:13	50
Chloroethane	250	U	250	130	ug/L			08/11/16 12:13	50

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128278-1

Client Sample ID: 1600780-MW-17
Date Collected: 08/03/16 10:32
Date Received: 08/04/16 09:04

Lab Sample ID: 680-128278-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	50	U	50	25	ug/L			08/11/16 12:13	50
Chloromethane	50	U	50	20	ug/L			08/11/16 12:13	50
2-Chlorotoluene	50	U	50	14	ug/L			08/11/16 12:13	50
4-Chlorotoluene	50	U	50	23	ug/L			08/11/16 12:13	50
cis-1,2-Dichloroethene	50	U	50	21	ug/L			08/11/16 12:13	50
cis-1,3-Dichloropropene	50	U	50	20	ug/L			08/11/16 12:13	50
Dibromochloromethane	50	U	50	16	ug/L			08/11/16 12:13	50
Dibromomethane	50	U	50	18	ug/L			08/11/16 12:13	50
Dichlorodifluoromethane	50	U	50	30	ug/L			08/11/16 12:13	50
1,1-Dichloroethane	50	U	50	19	ug/L			08/11/16 12:13	50
1,2-Dichloroethane	50	U	50	25	ug/L			08/11/16 12:13	50
1,1-Dichloroethene	50	U	50	18	ug/L			08/11/16 12:13	50
1,2-Dichloroethene, Total	100	U	100	19	ug/L			08/11/16 12:13	50
1,2-Dichloropropane	50	U	50	34	ug/L			08/11/16 12:13	50
1,3-Dichloropropane	50	U	50	17	ug/L			08/11/16 12:13	50
2,2-Dichloropropane	50	U	50	19	ug/L			08/11/16 12:13	50
1,1-Dichloropropene	50	U	50	17	ug/L			08/11/16 12:13	50
Ethylbenzene	**220**		50	17	ug/L			08/11/16 12:13	50
2-Hexanone	500	U	500	100	ug/L			08/11/16 12:13	50
Isopropylbenzene	**53**		50	18	ug/L			08/11/16 12:13	50
Methylene Chloride	250	U	250	130	ug/L			08/11/16 12:13	50
4-Methyl-2-pentanone	500	U	500	110	ug/L			08/11/16 12:13	50
Methyl tert-butyl ether	**82**	**J**	500	15	ug/L			08/11/16 12:13	50
m-Xylene & p-Xylene	**490**		50	18	ug/L			08/11/16 12:13	50
n-Butylbenzene	50	U	50	24	ug/L			08/11/16 12:13	50
N-Propylbenzene	**110**		50	19	ug/L			08/11/16 12:13	50
o-Xylene	**130**		50	12	ug/L			08/11/16 12:13	50
p-Isopropyltoluene	50	U	50	24	ug/L			08/11/16 12:13	50
sec-Butylbenzene	50	U	50	21	ug/L			08/11/16 12:13	50
Styrene	50	U	50	14	ug/L			08/11/16 12:13	50
tert-Butylbenzene	50	U	50	23	ug/L			08/11/16 12:13	50
1,1,1,2-Tetrachloroethane	50	U	50	19	ug/L			08/11/16 12:13	50
1,1,2,2-Tetrachloroethane	50	U	50	31	ug/L			08/11/16 12:13	50
Tetrachloroethene	50	U	50	37	ug/L			08/11/16 12:13	50
Toluene	**200**		50	24	ug/L			08/11/16 12:13	50
trans-1,2-Dichloroethene	50	U	50	19	ug/L			08/11/16 12:13	50
trans-1,3-Dichloropropene	50	U	50	21	ug/L			08/11/16 12:13	50
1,2,3-Trichlorobenzene	250	U	250	130	ug/L			08/11/16 12:13	50
1,1,1-Trichloroethane	50	U	50	19	ug/L			08/11/16 12:13	50
1,1,2-Trichloroethane	50	U	50	17	ug/L			08/11/16 12:13	50
Trichloroethene	50	U	50	24	ug/L			08/11/16 12:13	50
Trichlorofluoromethane	50	U	50	21	ug/L			08/11/16 12:13	50
1,2,4-Trimethylbenzene	**120**		50	24	ug/L			08/11/16 12:13	50
1,3,5-Trimethylbenzene	**39**	**J**	50	16	ug/L			08/11/16 12:13	50
Vinyl acetate	100	U	100	41	ug/L			08/11/16 12:13	50
Vinyl chloride	50	U	50	25	ug/L			08/11/16 12:13	50
Xylenes, Total	**620**		50	12	ug/L			08/11/16 12:13	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*08/11/16 12:13*	*50*

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128278-1

Client Sample ID: 1600780-MW-17

Date Collected: 08/03/16 10:32
Date Received: 08/04/16 09:04

Lab Sample ID: 680-128278-2

Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*106*		*80 - 122*		*08/11/16 12:13*	*50*
1,2-Dichloroethane-d4 (Surr)	*99*		*73 - 131*		*08/11/16 12:13*	*50*
Toluene-d8 (Surr)	*102*		*80 - 120*		*08/11/16 12:13*	*50*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**11000**		100	43	ug/L			08/12/16 10:25	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/12/16 10:25*	*100*
Dibromofluoromethane (Surr)	*104*		*80 - 122*		*08/12/16 10:25*	*100*
1,2-Dichloroethane-d4 (Surr)	*99*		*73 - 131*		*08/12/16 10:25*	*100*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/12/16 10:25*	*100*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.095	ug/L		08/04/16 15:13	08/05/16 19:01	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L		08/04/16 15:13	08/05/16 19:01	1
Acetophenone	**12**		0.95	0.29	ug/L		08/04/16 15:13	08/05/16 19:01	1
Anthracene	0.19	U	0.19	0.095	ug/L		08/04/16 15:13	08/05/16 19:01	1
Atrazine	3.8	U	3.8	1.9	ug/L		08/04/16 15:13	08/05/16 19:01	1
Benzaldehyde	0.95	U	0.95	0.095	ug/L		08/04/16 15:13	08/05/16 19:01	1
Benzo[a]anthracene	0.19	U	0.19	0.095	ug/L		08/04/16 15:13	08/05/16 19:01	1
Benzo[a]pyrene	0.19	U	0.19	0.095	ug/L		08/04/16 15:13	08/05/16 19:01	1
Benzo[b]fluoranthene	0.19	U	0.19	0.095	ug/L		08/04/16 15:13	08/05/16 19:01	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.095	ug/L		08/04/16 15:13	08/05/16 19:01	1
Benzo[k]fluoranthene	0.19	U	0.19	0.095	ug/L		08/04/16 15:13	08/05/16 19:01	1
1,1'-Biphenyl	0.95	U	0.95	0.095	ug/L		08/04/16 15:13	08/05/16 19:01	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L		08/04/16 15:13	08/05/16 19:01	1
Bis(2-chloroethyl)ether	0.95	U	0.95	0.095	ug/L		08/04/16 15:13	08/05/16 19:01	1
Bis(2-ethylhexyl) phthalate	4.8	U	4.8	1.9	ug/L		08/04/16 15:13	08/05/16 19:01	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L		08/04/16 15:13	08/05/16 19:01	1
Butyl benzyl phthalate	0.95	U	0.95	0.11	ug/L		08/04/16 15:13	08/05/16 19:01	1
Caprolactam	0.95	U	0.95	0.12	ug/L		08/04/16 15:13	08/05/16 19:01	1
Carbazole	1.9	U	1.9	0.095	ug/L		08/04/16 15:13	08/05/16 19:01	1
4-Chloroaniline	3.8	U	3.8	1.9	ug/L		08/04/16 15:13	08/05/16 19:01	1
4-Chloro-3-methylphenol	0.95	U	0.95	0.11	ug/L		08/04/16 15:13	08/05/16 19:01	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		08/04/16 15:13	08/05/16 19:01	1
2-Chlorophenol	0.95	U	0.95	0.11	ug/L		08/04/16 15:13	08/05/16 19:01	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L		08/04/16 15:13	08/05/16 19:01	1
Chrysene	0.19	U	0.19	0.043	ug/L		08/04/16 15:13	08/05/16 19:01	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.095	ug/L		08/04/16 15:13	08/05/16 19:01	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		08/04/16 15:13	08/05/16 19:01	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		08/04/16 15:13	08/05/16 19:01	1
2,4-Dichlorophenol	0.95	U	0.95	0.095	ug/L		08/04/16 15:13	08/05/16 19:01	1
Diethyl phthalate	0.95	U	0.95	0.11	ug/L		08/04/16 15:13	08/05/16 19:01	1
Dimethyl phthalate	0.95	U	0.95	0.095	ug/L		08/04/16 15:13	08/05/16 19:01	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		08/04/16 15:13	08/05/16 19:01	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.95	ug/L		08/04/16 15:13	08/05/16 19:01	1
2,4-Dinitrophenol	9.5	U	9.5	1.1	ug/L		08/04/16 15:13	08/05/16 19:01	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128278-1

Client Sample ID: 1600780-MW-17

Date Collected: 08/03/16 10:32
Date Received: 08/04/16 09:04

Lab Sample ID: 680-128278-2

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		08/04/16 15:13	08/05/16 19:01	1
2,6-Dinitrotoluene	0.95	U	0.95	0.12	ug/L		08/04/16 15:13	08/05/16 19:01	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		08/04/16 15:13	08/05/16 19:01	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		08/04/16 15:13	08/05/16 19:01	1
Fluorene	0.19	U	0.19	0.095	ug/L		08/04/16 15:13	08/05/16 19:01	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		08/04/16 15:13	08/05/16 19:01	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		08/04/16 15:13	08/05/16 19:01	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		08/04/16 15:13	08/05/16 19:01	1
Hexachloroethane	0.95	U	0.95	0.48	ug/L		08/04/16 15:13	08/05/16 19:01	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095	ug/L		08/04/16 15:13	08/05/16 19:01	1
Isophorone	0.95	U	0.95	0.095	ug/L		08/04/16 15:13	08/05/16 19:01	1
2-Methylnaphthalene	**9.2**		0.19	0.095	ug/L		08/04/16 15:13	08/05/16 19:01	1
2-Methylphenol	**4.1**		1.9	0.71	ug/L		08/04/16 15:13	08/05/16 19:01	1
3 & 4 Methylphenol	1.9	U	1.9	0.63	ug/L		08/04/16 15:13	08/05/16 19:01	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		08/04/16 15:13	08/05/16 19:01	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		08/04/16 15:13	08/05/16 19:01	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		08/04/16 15:13	08/05/16 19:01	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		08/04/16 15:13	08/05/16 19:01	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		08/04/16 15:13	08/05/16 19:01	1
4-Nitrophenol	7.6	U	7.6	3.8	ug/L		08/04/16 15:13	08/05/16 19:01	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		08/04/16 15:13	08/05/16 19:01	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		08/04/16 15:13	08/05/16 19:01	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		08/04/16 15:13	08/05/16 19:01	1
Pentachlorophenol	4.8	U	4.8	0.38	ug/L		08/04/16 15:13	08/05/16 19:01	1
Phenanthrene	0.19	U	0.19	0.095	ug/L		08/04/16 15:13	08/05/16 19:01	1
Pyrene	0.19	U	0.19	0.095	ug/L		08/04/16 15:13	08/05/16 19:01	1
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		08/04/16 15:13	08/05/16 19:01	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		08/04/16 15:13	08/05/16 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*31*		*31 - 107*	*08/04/16 15:13*	*08/05/16 19:01*	*1*
2-Fluorophenol	*50*		*18 - 112*	*08/04/16 15:13*	*08/05/16 19:01*	*1*
Nitrobenzene-d5 (Surr)	*42*		*37 - 103*	*08/04/16 15:13*	*08/05/16 19:01*	*1*
Phenol-d5 (Surr)	*62*		*20 - 113*	*08/04/16 15:13*	*08/05/16 19:01*	*1*
Terphenyl-d14 (Surr)	*46*		*22 - 121*	*08/04/16 15:13*	*08/05/16 19:01*	*1*
2,4,6-Tribromophenol (Surr)	*41*		*39 - 133*	*08/04/16 15:13*	*08/05/16 19:01*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	**44**		19	6.6	ug/L		08/04/16 15:13	08/06/16 18:28	10
Naphthalene	**30**		1.9	0.95	ug/L		08/04/16 15:13	08/06/16 18:28	10
Phenol	**140**		9.5	1.2	ug/L		08/04/16 15:13	08/06/16 18:28	10

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.050	U	0.050	0.023	mg/L			08/04/16 13:50	1
Sulfate	**2.5**		1.0	0.40	mg/L			08/12/16 21:31	1
Chloride	**110**		2.5	1.0	mg/L			08/16/16 00:10	5
Bromide	**0.69**		0.50	0.20	mg/L			08/12/16 21:31	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128278-1

Client Sample ID: 1600780-MW-17

Lab Sample ID: 680-128278-2
Date Collected: 08/03/16 10:32
Matrix: Water
Date Received: 08/04/16 09:04

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	20	U	20	5.3	ug/L		08/10/16 16:21	08/12/16 14:19	1
Arsenic	20	U	20	6.2	ug/L		08/10/16 16:21	08/12/16 14:19	1
Beryllium	4.0	U	4.0	0.10	ug/L		08/10/16 16:21	08/12/16 14:19	1
Cadmium	5.0	U	5.0	1.0	ug/L		08/10/16 16:21	08/12/16 14:19	1
Calcium	**230000**		500	25	ug/L		08/10/16 16:21	08/12/16 14:19	1
Chromium	10	U	10	1.6	ug/L		08/10/16 16:21	08/12/16 14:19	1
Copper	20	U	20	1.8	ug/L		08/10/16 16:21	08/12/16 14:19	1
Iron	**10000**		50	17	ug/L		08/17/16 10:21	08/18/16 09:29	1
Lead	10	U	10	3.9	ug/L		08/10/16 16:21	08/12/16 14:19	1
Magnesium	**36000**		500	33	ug/L		08/10/16 16:21	08/12/16 14:19	1
Manganese	**4000**		10	1.0	ug/L		08/10/16 16:21	08/12/16 14:19	1
Nickel	**7.0**	**J**	40	2.1	ug/L		08/10/16 16:21	08/12/16 14:19	1
Potassium	**570**	**J**	1000	17	ug/L		08/10/16 16:21	08/12/16 14:19	1
Selenium	20	U	20	9.9	ug/L		08/10/16 16:21	08/12/16 14:19	1
Silver	10	U	10	0.60	ug/L		08/10/16 16:21	08/12/16 14:19	1
Sodium	**71000**		1000	480	ug/L		08/10/16 16:21	08/12/16 14:19	1
Thallium	25	U	25	6.0	ug/L		08/10/16 16:21	08/12/16 14:19	1
Zinc	20	U	20	7.0	ug/L		08/10/16 16:21	08/12/16 14:19	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.080	ug/L		08/05/16 09:31	08/05/16 18:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**670**	**H**	5.0	5.0	mg/L			08/18/16 17:57	1
Bicarbonate Alkalinity as CaCO3	**670**	**H**	5.0	5.0	mg/L			08/18/16 17:57	1
Ammonia	**0.10**	**J**	0.25	0.10	mg/L			08/11/16 15:23	1
Phosphorus	**0.072**	**J**	0.10	0.041	mg/L		08/12/16 09:49	08/15/16 11:11	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**880**		10	10	mg/L			08/09/16 11:54	1
Sulfide	1.0	U	1.0	1.0	mg/L			08/09/16 05:10	1

Client Sample ID: 1600780-TRIP BLANK

Lab Sample ID: 680-128278-6
Date Collected: 08/03/16 00:00
Matrix: Water
Date Received: 08/04/16 09:04

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	7.0	ug/L			08/11/16 09:28	1
Benzene	1.0	U	1.0	0.43	ug/L			08/11/16 09:28	1
Bromobenzene	1.0	U	1.0	0.50	ug/L			08/11/16 09:28	1
Bromochloromethane	1.0	U	1.0	0.45	ug/L			08/11/16 09:28	1
Bromodichloromethane	1.0	U	1.0	0.44	ug/L			08/11/16 09:28	1
Bromoform	1.0	U	1.0	0.43	ug/L			08/11/16 09:28	1
Bromomethane	5.0	U	5.0	2.5	ug/L			08/11/16 09:28	1
2-Butanone (MEK)	10	U	10	3.4	ug/L			08/11/16 09:28	1
Carbon disulfide	2.0	U	2.0	1.0	ug/L			08/11/16 09:28	1
Carbon tetrachloride	1.0	U	1.0	0.33	ug/L			08/11/16 09:28	1
Chlorobenzene	1.0	U	1.0	0.26	ug/L			08/11/16 09:28	1

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128278-1

Client Sample ID: 1600780-TRIP BLANK
Date Collected: 08/03/16 00:00
Date Received: 08/04/16 09:04

Lab Sample ID: 680-128278-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	5.0	U	5.0	2.5	ug/L			08/11/16 09:28	1
Chloroform	1.0	U	1.0	0.50	ug/L			08/11/16 09:28	1
Chloromethane	1.0	U	1.0	0.40	ug/L			08/11/16 09:28	1
2-Chlorotoluene	1.0	U	1.0	0.27	ug/L			08/11/16 09:28	1
4-Chlorotoluene	1.0	U	1.0	0.45	ug/L			08/11/16 09:28	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.41	ug/L			08/11/16 09:28	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.40	ug/L			08/11/16 09:28	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			08/11/16 09:28	1
Dibromomethane	1.0	U	1.0	0.35	ug/L			08/11/16 09:28	1
Dichlorodifluoromethane	1.0	U	1.0	0.60	ug/L			08/11/16 09:28	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			08/11/16 09:28	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			08/11/16 09:28	1
1,1-Dichloroethene	1.0	U	1.0	0.36	ug/L			08/11/16 09:28	1
1,2-Dichloroethene, Total	2.0	U	2.0	0.37	ug/L			08/11/16 09:28	1
1,2-Dichloropropane	1.0	U	1.0	0.67	ug/L			08/11/16 09:28	1
1,3-Dichloropropane	1.0	U	1.0	0.34	ug/L			08/11/16 09:28	1
2,2-Dichloropropane	1.0	U	1.0	0.37	ug/L			08/11/16 09:28	1
1,1-Dichloropropene	1.0	U	1.0	0.34	ug/L			08/11/16 09:28	1
Ethylbenzene	1.0	U	1.0	0.33	ug/L			08/11/16 09:28	1
2-Hexanone	10	U	10	2.0	ug/L			08/11/16 09:28	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			08/11/16 09:28	1
Methylene Chloride	5.0	U	5.0	2.5	ug/L			08/11/16 09:28	1
4-Methyl-2-pentanone	10	U	10	2.1	ug/L			08/11/16 09:28	1
Methyl tert-butyl ether	10	U	10	0.30	ug/L			08/11/16 09:28	1
m-Xylene & p-Xylene	1.0	U	1.0	0.35	ug/L			08/11/16 09:28	1
n-Butylbenzene	1.0	U	1.0	0.47	ug/L			08/11/16 09:28	1
N-Propylbenzene	1.0	U	1.0	0.38	ug/L			08/11/16 09:28	1
o-Xylene	1.0	U	1.0	0.23	ug/L			08/11/16 09:28	1
p-Isopropyltoluene	1.0	U	1.0	0.48	ug/L			08/11/16 09:28	1
sec-Butylbenzene	1.0	U	1.0	0.42	ug/L			08/11/16 09:28	1
Styrene	1.0	U	1.0	0.27	ug/L			08/11/16 09:28	1
tert-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/11/16 09:28	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/11/16 09:28	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.62	ug/L			08/11/16 09:28	1
Tetrachloroethene	1.0	U	1.0	0.74	ug/L			08/11/16 09:28	1
Toluene	1.0	U	1.0	0.48	ug/L			08/11/16 09:28	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.37	ug/L			08/11/16 09:28	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.42	ug/L			08/11/16 09:28	1
1,2,3-Trichlorobenzene	5.0	U	5.0	2.5	ug/L			08/11/16 09:28	1
1,1,1-Trichloroethane	1.0	U	1.0	0.37	ug/L			08/11/16 09:28	1
1,1,2-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/11/16 09:28	1
Trichloroethene	1.0	U	1.0	0.48	ug/L			08/11/16 09:28	1
Trichlorofluoromethane	1.0	U	1.0	0.42	ug/L			08/11/16 09:28	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.47	ug/L			08/11/16 09:28	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.31	ug/L			08/11/16 09:28	1
Vinyl acetate	2.0	U	2.0	0.81	ug/L			08/11/16 09:28	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			08/11/16 09:28	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			08/11/16 09:28	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128278-1

Client Sample ID: 1600780-TRIP BLANK

Lab Sample ID: 680-128278-6

Date Collected: 08/03/16 00:00

Matrix: Water

Date Received: 08/04/16 09:04

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		80 - 120		08/11/16 09:28	1
Dibromofluoromethane (Surr)	100		80 - 122		08/11/16 09:28	1
1,2-Dichloroethane-d4 (Surr)	91		73 - 131		08/11/16 09:28	1
Toluene-d8 (Surr)	99		80 - 120		08/11/16 09:28	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-445229/9
Matrix: Water
Analysis Batch: 445229

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	7.0	ug/L			08/11/16 09:07	1
Benzene	1.0	U	1.0	0.43	ug/L			08/11/16 09:07	1
Bromobenzene	1.0	U	1.0	0.50	ug/L			08/11/16 09:07	1
Bromochloromethane	1.0	U	1.0	0.45	ug/L			08/11/16 09:07	1
Bromodichloromethane	1.0	U	1.0	0.44	ug/L			08/11/16 09:07	1
Bromoform	1.0	U	1.0	0.43	ug/L			08/11/16 09:07	1
Bromomethane	5.0	U	5.0	2.5	ug/L			08/11/16 09:07	1
2-Butanone (MEK)	10	U	10	3.4	ug/L			08/11/16 09:07	1
Carbon disulfide	2.0	U	2.0	1.0	ug/L			08/11/16 09:07	1
Carbon tetrachloride	1.0	U	1.0	0.33	ug/L			08/11/16 09:07	1
Chlorobenzene	1.0	U	1.0	0.26	ug/L			08/11/16 09:07	1
Chloroethane	5.0	U	5.0	2.5	ug/L			08/11/16 09:07	1
Chloroform	1.0	U	1.0	0.50	ug/L			08/11/16 09:07	1
Chloromethane	1.0	U	1.0	0.40	ug/L			08/11/16 09:07	1
2-Chlorotoluene	1.0	U	1.0	0.27	ug/L			08/11/16 09:07	1
4-Chlorotoluene	1.0	U	1.0	0.45	ug/L			08/11/16 09:07	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.41	ug/L			08/11/16 09:07	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.40	ug/L			08/11/16 09:07	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			08/11/16 09:07	1
Dibromomethane	1.0	U	1.0	0.35	ug/L			08/11/16 09:07	1
Dichlorodifluoromethane	1.0	U	1.0	0.60	ug/L			08/11/16 09:07	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			08/11/16 09:07	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			08/11/16 09:07	1
1,1-Dichloroethene	1.0	U	1.0	0.36	ug/L			08/11/16 09:07	1
1,2-Dichloroethene, Total	2.0	U	2.0	0.37	ug/L			08/11/16 09:07	1
1,2-Dichloropropane	1.0	U	1.0	0.67	ug/L			08/11/16 09:07	1
1,3-Dichloropropane	1.0	U	1.0	0.34	ug/L			08/11/16 09:07	1
2,2-Dichloropropane	1.0	U	1.0	0.37	ug/L			08/11/16 09:07	1
1,1-Dichloropropene	1.0	U	1.0	0.34	ug/L			08/11/16 09:07	1
Ethylbenzene	1.0	U	1.0	0.33	ug/L			08/11/16 09:07	1
2-Hexanone	10	U	10	2.0	ug/L			08/11/16 09:07	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			08/11/16 09:07	1
Methylene Chloride	5.0	U	5.0	2.5	ug/L			08/11/16 09:07	1
4-Methyl-2-pentanone	10	U	10	2.1	ug/L			08/11/16 09:07	1
Methyl tert-butyl ether	10	U	10	0.30	ug/L			08/11/16 09:07	1
m-Xylene & p-Xylene	1.0	U	1.0	0.35	ug/L			08/11/16 09:07	1
n-Butylbenzene	1.0	U	1.0	0.47	ug/L			08/11/16 09:07	1
N-Propylbenzene	1.0	U	1.0	0.38	ug/L			08/11/16 09:07	1
o-Xylene	1.0	U	1.0	0.23	ug/L			08/11/16 09:07	1
p-Isopropyltoluene	1.0	U	1.0	0.48	ug/L			08/11/16 09:07	1
sec-Butylbenzene	1.0	U	1.0	0.42	ug/L			08/11/16 09:07	1
Styrene	1.0	U	1.0	0.27	ug/L			08/11/16 09:07	1
tert-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/11/16 09:07	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/11/16 09:07	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.62	ug/L			08/11/16 09:07	1
Tetrachloroethene	1.0	U	1.0	0.74	ug/L			08/11/16 09:07	1
Toluene	1.0	U	1.0	0.48	ug/L			08/11/16 09:07	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.37	ug/L			08/11/16 09:07	1

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

Lab Sample ID: MB 680-445229/9
Matrix: Water
Analysis Batch: 445229

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	1.0	U	1.0	0.42	ug/L			08/11/16 09:07	1
1,2,3-Trichlorobenzene	5.0	U	5.0	2.5	ug/L			08/11/16 09:07	1
1,1,1-Trichloroethane	1.0	U	1.0	0.37	ug/L			08/11/16 09:07	1
1,1,2-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/11/16 09:07	1
Trichloroethene	1.0	U	1.0	0.48	ug/L			08/11/16 09:07	1
Trichlorofluoromethane	1.0	U	1.0	0.42	ug/L			08/11/16 09:07	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.47	ug/L			08/11/16 09:07	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.31	ug/L			08/11/16 09:07	1
Vinyl acetate	2.0	U	2.0	0.81	ug/L			08/11/16 09:07	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			08/11/16 09:07	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			08/11/16 09:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*08/11/16 09:07*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 122*		*08/11/16 09:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*73 - 131*		*08/11/16 09:07*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/11/16 09:07*	*1*

Lab Sample ID: LCS 680-445229/4
Matrix: Water
Analysis Batch: 445229

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	272		ug/L		109	68 - 132
Benzene	50.0	48.6		ug/L		97	80 - 120
Bromobenzene	50.0	50.9		ug/L		102	71 - 124
Bromochloromethane	50.0	49.0		ug/L		98	80 - 120
Bromodichloromethane	50.0	48.2		ug/L		96	80 - 120
Bromoform	50.0	51.6		ug/L		103	52 - 122
Bromomethane	50.0	44.1		ug/L		88	43 - 146
2-Butanone (MEK)	250	230		ug/L		92	79 - 125
Carbon disulfide	50.0	52.9		ug/L		106	77 - 129
Carbon tetrachloride	50.0	47.4		ug/L		95	67 - 125
Chlorobenzene	50.0	48.7		ug/L		97	80 - 120
Chloroethane	50.0	53.0		ug/L		106	48 - 145
Chloroform	50.0	49.5		ug/L		99	80 - 120
Chloromethane	50.0	45.6		ug/L		91	76 - 149
2-Chlorotoluene	50.0	48.5		ug/L		97	80 - 120
4-Chlorotoluene	50.0	47.8		ug/L		96	80 - 120
cis-1,2-Dichloroethene	50.0	49.1		ug/L		98	80 - 120
cis-1,3-Dichloropropene	50.0	49.5		ug/L		99	80 - 129
Dibromochloromethane	50.0	48.7		ug/L		97	68 - 120
Dibromomethane	50.0	49.0		ug/L		98	80 - 120
Dichlorodifluoromethane	50.0	38.2		ug/L		76	70 - 137
1,1-Dichloroethane	50.0	50.2		ug/L		100	80 - 120
1,2-Dichloroethane	50.0	46.5		ug/L		93	72 - 128
1,1-Dichloroethene	50.0	56.5		ug/L		113	80 - 120
1,2-Dichloroethene, Total	100	99.2		ug/L		99	80 - 120

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

Lab Sample ID: LCS 680-445229/4
Matrix: Water
Analysis Batch: 445229

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	50.0	50.1		ug/L		100	80 - 120
1,3-Dichloropropane	50.0	49.9		ug/L		100	80 - 120
2,2-Dichloropropane	50.0	52.3		ug/L		105	80 - 135
1,1-Dichloropropene	50.0	48.5		ug/L		97	80 - 120
Ethylbenzene	50.0	48.7		ug/L		97	80 - 120
2-Hexanone	250	253		ug/L		101	80 - 131
Isopropylbenzene	50.0	50.4		ug/L		101	79 - 126
Methylene Chloride	50.0	48.4		ug/L		97	80 - 120
4-Methyl-2-pentanone	250	258		ug/L		103	80 - 134
Methyl tert-butyl ether	50.0	53.9		ug/L		108	80 - 122
m-Xylene & p-Xylene	50.0	49.2		ug/L		98	80 - 120
n-Butylbenzene	50.0	45.5		ug/L		91	75 - 132
N-Propylbenzene	50.0	48.4		ug/L		97	80 - 125
o-Xylene	50.0	50.5		ug/L		101	80 - 120
p-Isopropyltoluene	50.0	47.7		ug/L		95	80 - 120
sec-Butylbenzene	50.0	48.9		ug/L		98	80 - 120
Styrene	50.0	51.0		ug/L		102	80 - 126
tert-Butylbenzene	50.0	50.2		ug/L		100	80 - 120
1,1,1,2-Tetrachloroethane	50.0	56.3		ug/L		113	73 - 124
1,1,2,2-Tetrachloroethane	50.0	50.5		ug/L		101	76 - 126
Tetrachloroethene	50.0	48.4		ug/L		97	71 - 123
Toluene	50.0	48.3		ug/L		97	80 - 120
trans-1,2-Dichloroethene	50.0	50.2		ug/L		100	80 - 120
trans-1,3-Dichloropropene	50.0	49.0		ug/L		98	80 - 128
1,2,3-Trichlorobenzene	50.0	52.8		ug/L		106	70 - 125
1,1,1-Trichloroethane	50.0	52.5		ug/L		105	80 - 120
1,1,2-Trichloroethane	50.0	49.7		ug/L		99	80 - 120
Trichloroethene	50.0	51.5		ug/L		103	80 - 120
Trichlorofluoromethane	50.0	47.0		ug/L		94	58 - 127
1,2,4-Trimethylbenzene	50.0	49.6		ug/L		99	80 - 120
1,3,5-Trimethylbenzene	50.0	49.7		ug/L		99	80 - 120
Vinyl acetate	100	93.5		ug/L		93	74 - 156
Vinyl chloride	50.0	48.2		ug/L		96	80 - 129
Xylenes, Total	100	99.7		ug/L		100	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*91*		*73 - 131*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: LCSD 680-445229/5
Matrix: Water
Analysis Batch: 445229

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	285		ug/L		114	68 - 132	5	30
Benzene	50.0	48.2		ug/L		96	80 - 120	1	20

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

Lab Sample ID: LCSD 680-445229/5
Matrix: Water
Analysis Batch: 445229

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromobenzene	50.0	51.6		ug/L		103	71 - 124	1	20
Bromochloromethane	50.0	51.1		ug/L		102	80 - 120	4	20
Bromodichloromethane	50.0	48.5		ug/L		97	80 - 120	1	20
Bromoform	50.0	51.9		ug/L		104	52 - 122	1	20
Bromomethane	50.0	46.1		ug/L		92	43 - 146	4	20
2-Butanone (MEK)	250	253		ug/L		101	79 - 125	10	20
Carbon disulfide	50.0	51.2		ug/L		102	77 - 129	3	20
Carbon tetrachloride	50.0	45.8		ug/L		92	67 - 125	3	20
Chlorobenzene	50.0	48.8		ug/L		98	80 - 120	0	20
Chloroethane	50.0	50.7		ug/L		101	48 - 145	4	20
Chloroform	50.0	50.6		ug/L		101	80 - 120	2	20
Chloromethane	50.0	47.6		ug/L		95	76 - 149	4	30
2-Chlorotoluene	50.0	47.9		ug/L		96	80 - 120	1	20
4-Chlorotoluene	50.0	47.6		ug/L		95	80 - 120	0	20
cis-1,2-Dichloroethene	50.0	48.9		ug/L		98	80 - 120	0	20
cis-1,3-Dichloropropene	50.0	50.4		ug/L		101	80 - 129	2	20
Dibromochloromethane	50.0	49.7		ug/L		99	68 - 120	2	20
Dibromomethane	50.0	51.2		ug/L		102	80 - 120	4	20
Dichlorodifluoromethane	50.0	35.8		ug/L		72	70 - 137	7	40
1,1-Dichloroethane	50.0	50.3		ug/L		101	80 - 120	0	20
1,2-Dichloroethane	50.0	47.8		ug/L		96	72 - 128	3	50
1,1-Dichloroethene	50.0	51.8		ug/L		104	80 - 120	9	20
1,2-Dichloroethene, Total	100	99.7		ug/L		100	80 - 120	0	20
1,2-Dichloropropane	50.0	50.8		ug/L		102	80 - 120	1	20
1,3-Dichloropropane	50.0	51.5		ug/L		103	80 - 120	3	20
2,2-Dichloropropane	50.0	51.6		ug/L		103	80 - 135	1	20
1,1-Dichloropropene	50.0	47.6		ug/L		95	80 - 120	2	20
Ethylbenzene	50.0	47.6		ug/L		95	80 - 120	2	20
2-Hexanone	250	271		ug/L		108	80 - 131	7	20
Isopropylbenzene	50.0	49.5		ug/L		99	79 - 126	2	20
Methylene Chloride	50.0	49.7		ug/L		99	80 - 120	3	20
4-Methyl-2-pentanone	250	274		ug/L		110	80 - 134	6	20
Methyl tert-butyl ether	50.0	56.1		ug/L		112	80 - 122	4	20
m-Xylene & p-Xylene	50.0	48.4		ug/L		97	80 - 120	2	20
n-Butylbenzene	50.0	44.7		ug/L		89	75 - 132	2	20
N-Propylbenzene	50.0	47.7		ug/L		95	80 - 125	2	20
o-Xylene	50.0	50.1		ug/L		100	80 - 120	1	30
p-Isopropyltoluene	50.0	47.1		ug/L		94	80 - 120	1	20
sec-Butylbenzene	50.0	47.6		ug/L		95	80 - 120	3	20
Styrene	50.0	51.0		ug/L		102	80 - 126	0	20
tert-Butylbenzene	50.0	49.2		ug/L		98	80 - 120	2	20
1,1,1,2-Tetrachloroethane	50.0	55.6		ug/L		111	73 - 124	1	20
1,1,2,2-Tetrachloroethane	50.0	52.2		ug/L		104	76 - 126	3	20
Tetrachloroethene	50.0	47.0		ug/L		94	71 - 123	3	20
Toluene	50.0	48.3		ug/L		97	80 - 120	0	20
trans-1,2-Dichloroethene	50.0	50.8		ug/L		102	80 - 120	1	20
trans-1,3-Dichloropropene	50.0	50.3		ug/L		101	80 - 128	3	30
1,2,3-Trichlorobenzene	50.0	54.9		ug/L		110	70 - 125	4	20

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

Lab Sample ID: LCSD 680-445229/5
Matrix: Water
Analysis Batch: 445229

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	50.8		ug/L		102	80 - 120	3	20
1,1,2-Trichloroethane			50.0	51.3		ug/L		103	80 - 120	3	20
Trichloroethene			50.0	50.5		ug/L		101	80 - 120	2	20
Trichlorofluoromethane			50.0	44.9		ug/L		90	58 - 127	5	20
1,2,4-Trimethylbenzene			50.0	49.3		ug/L		99	80 - 120	1	20
1,3,5-Trimethylbenzene			50.0	49.3		ug/L		99	80 - 120	1	20
Vinyl acetate			100	96.5		ug/L		96	74 - 156	3	20
Vinyl chloride			50.0	45.5		ug/L		91	80 - 129	6	20
Xylenes, Total			100	98.5		ug/L		99	80 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*96*		*73 - 131*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: MB 680-445400/9
Matrix: Water
Analysis Batch: 445400

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	7.0	ug/L			08/12/16 09:03	1
Benzene	1.0	U	1.0	0.43	ug/L			08/12/16 09:03	1
Bromobenzene	1.0	U	1.0	0.50	ug/L			08/12/16 09:03	1
Bromochloromethane	1.0	U	1.0	0.45	ug/L			08/12/16 09:03	1
Bromodichloromethane	1.0	U	1.0	0.44	ug/L			08/12/16 09:03	1
Bromoform	1.0	U	1.0	0.43	ug/L			08/12/16 09:03	1
Bromomethane	5.0	U	5.0	2.5	ug/L			08/12/16 09:03	1
2-Butanone (MEK)	10	U	10	3.4	ug/L			08/12/16 09:03	1
Carbon disulfide	2.0	U	2.0	1.0	ug/L			08/12/16 09:03	1
Carbon tetrachloride	1.0	U	1.0	0.33	ug/L			08/12/16 09:03	1
Chlorobenzene	1.0	U	1.0	0.26	ug/L			08/12/16 09:03	1
Chloroethane	5.0	U	5.0	2.5	ug/L			08/12/16 09:03	1
Chloroform	1.0	U	1.0	0.50	ug/L			08/12/16 09:03	1
Chloromethane	1.0	U	1.0	0.40	ug/L			08/12/16 09:03	1
2-Chlorotoluene	1.0	U	1.0	0.27	ug/L			08/12/16 09:03	1
4-Chlorotoluene	1.0	U	1.0	0.45	ug/L			08/12/16 09:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.41	ug/L			08/12/16 09:03	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.40	ug/L			08/12/16 09:03	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			08/12/16 09:03	1
Dibromomethane	1.0	U	1.0	0.35	ug/L			08/12/16 09:03	1
Dichlorodifluoromethane	1.0	U	1.0	0.60	ug/L			08/12/16 09:03	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			08/12/16 09:03	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			08/12/16 09:03	1
1,1-Dichloroethene	1.0	U	1.0	0.36	ug/L			08/12/16 09:03	1
1,2-Dichloroethene, Total	2.0	U	2.0	0.37	ug/L			08/12/16 09:03	1
1,2-Dichloropropane	1.0	U	1.0	0.67	ug/L			08/12/16 09:03	1
1,3-Dichloropropane	1.0	U	1.0	0.34	ug/L			08/12/16 09:03	1

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

Lab Sample ID: MB 680-445400/9
Matrix: Water
Analysis Batch: 445400

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	1.0	U	1.0	0.37	ug/L			08/12/16 09:03	1
1,1-Dichloropropene	1.0	U	1.0	0.34	ug/L			08/12/16 09:03	1
Ethylbenzene	1.0	U	1.0	0.33	ug/L			08/12/16 09:03	1
2-Hexanone	10	U	10	2.0	ug/L			08/12/16 09:03	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			08/12/16 09:03	1
Methylene Chloride	5.0	U	5.0	2.5	ug/L			08/12/16 09:03	1
4-Methyl-2-pentanone	10	U	10	2.1	ug/L			08/12/16 09:03	1
Methyl tert-butyl ether	10	U	10	0.30	ug/L			08/12/16 09:03	1
m-Xylene & p-Xylene	1.0	U	1.0	0.35	ug/L			08/12/16 09:03	1
n-Butylbenzene	1.0	U	1.0	0.47	ug/L			08/12/16 09:03	1
N-Propylbenzene	1.0	U	1.0	0.38	ug/L			08/12/16 09:03	1
o-Xylene	1.0	U	1.0	0.23	ug/L			08/12/16 09:03	1
p-Isopropyltoluene	1.0	U	1.0	0.48	ug/L			08/12/16 09:03	1
sec-Butylbenzene	1.0	U	1.0	0.42	ug/L			08/12/16 09:03	1
Styrene	1.0	U	1.0	0.27	ug/L			08/12/16 09:03	1
tert-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/12/16 09:03	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/12/16 09:03	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.62	ug/L			08/12/16 09:03	1
Tetrachloroethene	1.0	U	1.0	0.74	ug/L			08/12/16 09:03	1
Toluene	1.0	U	1.0	0.48	ug/L			08/12/16 09:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.37	ug/L			08/12/16 09:03	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.42	ug/L			08/12/16 09:03	1
1,2,3-Trichlorobenzene	5.0	U	5.0	2.5	ug/L			08/12/16 09:03	1
1,1,1-Trichloroethane	1.0	U	1.0	0.37	ug/L			08/12/16 09:03	1
1,1,2-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/12/16 09:03	1
Trichloroethene	1.0	U	1.0	0.48	ug/L			08/12/16 09:03	1
Trichlorofluoromethane	1.0	U	1.0	0.42	ug/L			08/12/16 09:03	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.47	ug/L			08/12/16 09:03	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.31	ug/L			08/12/16 09:03	1
Vinyl acetate	2.0	U	2.0	0.81	ug/L			08/12/16 09:03	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			08/12/16 09:03	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			08/12/16 09:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*08/12/16 09:03*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 122*		*08/12/16 09:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*73 - 131*		*08/12/16 09:03*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*08/12/16 09:03*	*1*

Lab Sample ID: LCS 680-445400/4
Matrix: Water
Analysis Batch: 445400

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	289		ug/L		116	68 - 132
Benzene	50.0	48.3		ug/L		97	80 - 120
Bromobenzene	50.0	51.5		ug/L		103	71 - 124
Bromochloromethane	50.0	50.4		ug/L		101	80 - 120

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

Lab Sample ID: LCS 680-445400/4
Matrix: Water
Analysis Batch: 445400

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	50.0	47.5		ug/L		95	80 - 120
Bromoform	50.0	49.4		ug/L		99	52 - 122
Bromomethane	50.0	43.6		ug/L		87	43 - 146
2-Butanone (MEK)	250	249		ug/L		100	79 - 125
Carbon disulfide	50.0	49.8		ug/L		100	77 - 129
Carbon tetrachloride	50.0	45.1		ug/L		90	67 - 125
Chlorobenzene	50.0	49.4		ug/L		99	80 - 120
Chloroethane	50.0	49.8		ug/L		100	48 - 145
Chloroform	50.0	50.1		ug/L		100	80 - 120
Chloromethane	50.0	41.6		ug/L		83	76 - 149
2-Chlorotoluene	50.0	48.4		ug/L		97	80 - 120
4-Chlorotoluene	50.0	47.7		ug/L		95	80 - 120
cis-1,2-Dichloroethene	50.0	49.1		ug/L		98	80 - 120
cis-1,3-Dichloropropene	50.0	48.5		ug/L		97	80 - 129
Dibromochloromethane	50.0	48.1		ug/L		96	68 - 120
Dibromomethane	50.0	50.9		ug/L		102	80 - 120
Dichlorodifluoromethane	50.0	35.3		ug/L		71	70 - 137
1,1-Dichloroethane	50.0	49.8		ug/L		100	80 - 120
1,2-Dichloroethane	50.0	48.6		ug/L		97	72 - 128
1,1-Dichloroethene	50.0	54.4		ug/L		109	80 - 120
1,2-Dichloroethene, Total	100	99.0		ug/L		99	80 - 120
1,2-Dichloropropane	50.0	50.7		ug/L		101	80 - 120
1,3-Dichloropropane	50.0	51.6		ug/L		103	80 - 120
2,2-Dichloropropane	50.0	48.9		ug/L		98	80 - 135
1,1-Dichloropropene	50.0	47.0		ug/L		94	80 - 120
Ethylbenzene	50.0	48.1		ug/L		96	80 - 120
2-Hexanone	250	263		ug/L		105	80 - 131
Isopropylbenzene	50.0	49.5		ug/L		99	79 - 126
Methylene Chloride	50.0	49.0		ug/L		98	80 - 120
4-Methyl-2-pentanone	250	268		ug/L		107	80 - 134
Methyl tert-butyl ether	50.0	55.8		ug/L		112	80 - 122
m-Xylene & p-Xylene	50.0	48.8		ug/L		98	80 - 120
n-Butylbenzene	50.0	43.8		ug/L		88	75 - 132
N-Propylbenzene	50.0	47.2		ug/L		94	80 - 125
o-Xylene	50.0	50.5		ug/L		101	80 - 120
p-Isopropyltoluene	50.0	47.1		ug/L		94	80 - 120
sec-Butylbenzene	50.0	47.8		ug/L		96	80 - 120
Styrene	50.0	50.9		ug/L		102	80 - 126
tert-Butylbenzene	50.0	49.2		ug/L		98	80 - 120
1,1,1,2-Tetrachloroethane	50.0	55.6		ug/L		111	73 - 124
1,1,2,2-Tetrachloroethane	50.0	52.2		ug/L		104	76 - 126
Tetrachloroethene	50.0	46.7		ug/L		93	71 - 123
Toluene	50.0	48.0		ug/L		96	80 - 120
trans-1,2-Dichloroethene	50.0	49.9		ug/L		100	80 - 120
trans-1,3-Dichloropropene	50.0	48.0		ug/L		96	80 - 128
1,2,3-Trichlorobenzene	50.0	53.6		ug/L		107	70 - 125
1,1,1-Trichloroethane	50.0	51.2		ug/L		102	80 - 120
1,1,2-Trichloroethane	50.0	50.8		ug/L		102	80 - 120

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

Lab Sample ID: LCS 680-445400/4
Matrix: Water
Analysis Batch: 445400

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	50.0	51.7		ug/L		103	80 - 120
Trichlorofluoromethane	50.0	44.8		ug/L		90	58 - 127
1,2,4-Trimethylbenzene	50.0	48.8		ug/L		98	80 - 120
1,3,5-Trimethylbenzene	50.0	48.6		ug/L		97	80 - 120
Vinyl acetate	100	90.7		ug/L		91	74 - 156
Vinyl chloride	50.0	45.0		ug/L		90	80 - 129
Xylenes, Total	100	99.3		ug/L		99	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*95*		*73 - 131*
Toluene-d8 (Surr)	*96*		*80 - 120*

Lab Sample ID: LCSD 680-445400/5
Matrix: Water
Analysis Batch: 445400

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	304		ug/L		122	68 - 132	5	30
Benzene	50.0	48.9		ug/L		98	80 - 120	1	20
Bromobenzene	50.0	52.1		ug/L		104	71 - 124	1	20
Bromochloromethane	50.0	52.0		ug/L		104	80 - 120	3	20
Bromodichloromethane	50.0	49.4		ug/L		99	80 - 120	4	20
Bromoform	50.0	50.5		ug/L		101	52 - 122	2	20
Bromomethane	50.0	42.4		ug/L		85	43 - 146	3	20
2-Butanone (MEK)	250	264		ug/L		105	79 - 125	6	20
Carbon disulfide	50.0	48.4		ug/L		97	77 - 129	3	20
Carbon tetrachloride	50.0	43.6		ug/L		87	67 - 125	3	20
Chlorobenzene	50.0	49.1		ug/L		98	80 - 120	1	20
Chloroethane	50.0	49.9		ug/L		100	48 - 145	0	20
Chloroform	50.0	50.4		ug/L		101	80 - 120	1	20
Chloromethane	50.0	41.0		ug/L		82	76 - 149	2	30
2-Chlorotoluene	50.0	47.3		ug/L		95	80 - 120	2	20
4-Chlorotoluene	50.0	47.3		ug/L		95	80 - 120	1	20
cis-1,2-Dichloroethene	50.0	48.6		ug/L		97	80 - 120	1	20
cis-1,3-Dichloropropene	50.0	50.6		ug/L		101	80 - 129	4	20
Dibromochloromethane	50.0	50.0		ug/L		100	68 - 120	4	20
Dibromomethane	50.0	52.8		ug/L		106	80 - 120	4	20
Dichlorodifluoromethane	50.0	33.4	*	ug/L		67	70 - 137	5	40
1,1-Dichloroethane	50.0	50.0		ug/L		100	80 - 120	0	20
1,2-Dichloroethane	50.0	50.4		ug/L		101	72 - 128	4	50
1,1-Dichloroethene	50.0	52.8		ug/L		106	80 - 120	3	20
1,2-Dichloroethene, Total	100	97.9		ug/L		98	80 - 120	1	20
1,2-Dichloropropane	50.0	52.8		ug/L		106	80 - 120	4	20
1,3-Dichloropropane	50.0	53.8		ug/L		108	80 - 120	4	20
2,2-Dichloropropane	50.0	49.0		ug/L		98	80 - 135	0	20
1,1-Dichloropropene	50.0	45.8		ug/L		92	80 - 120	3	20

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

Lab Sample ID: LCSD 680-445400/5
Matrix: Water
Analysis Batch: 445400

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	50.0	47.2		ug/L		94	80 - 120	2	20
2-Hexanone	250	278		ug/L		111	80 - 131	6	20
Isopropylbenzene	50.0	48.5		ug/L		97	79 - 126	2	20
Methylene Chloride	50.0	50.1		ug/L		100	80 - 120	2	20
4-Methyl-2-pentanone	250	283		ug/L		113	80 - 134	6	20
Methyl tert-butyl ether	50.0	57.9		ug/L		116	80 - 122	4	20
m-Xylene & p-Xylene	50.0	47.5		ug/L		95	80 - 120	3	20
n-Butylbenzene	50.0	41.3		ug/L		83	75 - 132	6	20
N-Propylbenzene	50.0	45.8		ug/L		92	80 - 125	3	20
o-Xylene	50.0	50.2		ug/L		100	80 - 120	1	30
p-Isopropyltoluene	50.0	45.2		ug/L		90	80 - 120	4	20
sec-Butylbenzene	50.0	45.6		ug/L		91	80 - 120	5	20
Styrene	50.0	51.6		ug/L		103	80 - 126	1	20
tert-Butylbenzene	50.0	47.7		ug/L		95	80 - 120	3	20
1,1,1,2-Tetrachloroethane	50.0	55.9		ug/L		112	73 - 124	1	20
1,1,2,2-Tetrachloroethane	50.0	54.1		ug/L		108	76 - 126	4	20
Tetrachloroethene	50.0	46.0		ug/L		92	71 - 123	1	20
Toluene	50.0	48.6		ug/L		97	80 - 120	1	20
trans-1,2-Dichloroethene	50.0	49.3		ug/L		99	80 - 120	1	20
trans-1,3-Dichloropropene	50.0	50.4		ug/L		101	80 - 128	5	30
1,2,3-Trichlorobenzene	50.0	56.0		ug/L		112	70 - 125	4	20
1,1,1-Trichloroethane	50.0	50.1		ug/L		100	80 - 120	2	20
1,1,2-Trichloroethane	50.0	53.5		ug/L		107	80 - 120	5	20
Trichloroethene	50.0	50.4		ug/L		101	80 - 120	3	20
Trichlorofluoromethane	50.0	43.0		ug/L		86	58 - 127	4	20
1,2,4-Trimethylbenzene	50.0	47.9		ug/L		96	80 - 120	2	20
1,3,5-Trimethylbenzene	50.0	47.7		ug/L		95	80 - 120	2	20
Vinyl acetate	100	95.3		ug/L		95	74 - 156	5	20
Vinyl chloride	50.0	43.4		ug/L		87	80 - 129	3	20
Xylenes, Total	100	97.7		ug/L		98	80 - 120	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*99*		*73 - 131*
Toluene-d8 (Surr)	*97*		*80 - 120*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 680-444265/4-A
Matrix: Water
Analysis Batch: 444483

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 444265

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.20	U	0.20	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
Acenaphthylene	0.20	U	0.20	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
Acetophenone	1.0	U	1.0	0.30	ug/L		08/04/16 15:13	08/05/16 15:31	1
Anthracene	0.20	U	0.20	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 680-444265/4-A
Matrix: Water
Analysis Batch: 444483

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 444265

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	4.0	U	4.0	2.0	ug/L		08/04/16 15:13	08/05/16 15:31	1
Benzaldehyde	1.0	U	1.0	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
Benzo[a]anthracene	0.20	U	0.20	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
Benzo[a]pyrene	0.20	U	0.20	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
Benzo[b]fluoranthene	0.20	U	0.20	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
Benzo[g,h,i]perylene	0.20	U	0.20	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
Benzo[k]fluoranthene	0.20	U	0.20	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
1,1'-Biphenyl	1.0	U	1.0	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
Bis(2-ethylhexyl) phthalate	5.0	U	5.0	2.0	ug/L		08/04/16 15:13	08/05/16 15:31	1
4-Bromophenyl phenyl ether	1.0	U	1.0	0.12	ug/L		08/04/16 15:13	08/05/16 15:31	1
Butyl benzyl phthalate	1.0	U	1.0	0.12	ug/L		08/04/16 15:13	08/05/16 15:31	1
Caprolactam	1.0	U	1.0	0.13	ug/L		08/04/16 15:13	08/05/16 15:31	1
Carbazole	2.0	U	2.0	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
4-Chloroaniline	4.0	U	4.0	2.0	ug/L		08/04/16 15:13	08/05/16 15:31	1
4-Chloro-3-methylphenol	1.0	U	1.0	0.12	ug/L		08/04/16 15:13	08/05/16 15:31	1
2-Chloronaphthalene	1.0	U	1.0	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
2-Chlorophenol	1.0	U	1.0	0.12	ug/L		08/04/16 15:13	08/05/16 15:31	1
4-Chlorophenyl phenyl ether	1.0	U	1.0	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
Chrysene	0.20	U	0.20	0.045	ug/L		08/04/16 15:13	08/05/16 15:31	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
Dibenzofuran	1.0	U	1.0	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
3,3'-Dichlorobenzidine	20	U	20	2.0	ug/L		08/04/16 15:13	08/05/16 15:31	1
2,4-Dichlorophenol	1.0	U	1.0	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
Diethyl phthalate	1.0	U	1.0	0.11	ug/L		08/04/16 15:13	08/05/16 15:31	1
2,4-Dimethylphenol	2.0	U	2.0	0.69	ug/L		08/04/16 15:13	08/05/16 15:31	1
Dimethyl phthalate	1.0	U	1.0	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
Di-n-butyl phthalate	1.0	U	1.0	0.39	ug/L		08/04/16 15:13	08/05/16 15:31	1
4,6-Dinitro-2-methylphenol	5.0	U	5.0	1.0	ug/L		08/04/16 15:13	08/05/16 15:31	1
2,4-Dinitrophenol	10	U	10	1.1	ug/L		08/04/16 15:13	08/05/16 15:31	1
2,4-Dinitrotoluene	1.0	U	1.0	0.12	ug/L		08/04/16 15:13	08/05/16 15:31	1
2,6-Dinitrotoluene	1.0	U	1.0	0.13	ug/L		08/04/16 15:13	08/05/16 15:31	1
Di-n-octyl phthalate	1.0	U	1.0	0.17	ug/L		08/04/16 15:13	08/05/16 15:31	1
Fluoranthene	0.20	U	0.20	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
Fluorene	0.20	U	0.20	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
Hexachlorobenzene	1.0	U	1.0	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
Hexachlorobutadiene	1.0	U	1.0	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
Hexachlorocyclopentadiene	2.0	U	2.0	0.50	ug/L		08/04/16 15:13	08/05/16 15:31	1
Hexachloroethane	1.0	U	1.0	0.50	ug/L		08/04/16 15:13	08/05/16 15:31	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
Isophorone	1.0	U	1.0	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
2-Methylnaphthalene	0.20	U	0.20	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
2-Methylphenol	2.0	U	2.0	0.74	ug/L		08/04/16 15:13	08/05/16 15:31	1
3 & 4 Methylphenol	2.0	U	2.0	0.66	ug/L		08/04/16 15:13	08/05/16 15:31	1
Naphthalene	0.20	U	0.20	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
2-Nitroaniline	1.0	U	1.0	0.16	ug/L		08/04/16 15:13	08/05/16 15:31	1
3-Nitroaniline	5.0	U	5.0	0.16	ug/L		08/04/16 15:13	08/05/16 15:31	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 680-444265/4-A
Matrix: Water
Analysis Batch: 444483

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 444265

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	5.0	U	5.0	0.50	ug/L		08/04/16 15:13	08/05/16 15:31	1
Nitrobenzene	1.0	U	1.0	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
2-Nitrophenol	1.0	U	1.0	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
4-Nitrophenol	8.0	U	8.0	4.0	ug/L		08/04/16 15:13	08/05/16 15:31	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.13	ug/L		08/04/16 15:13	08/05/16 15:31	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.37	ug/L		08/04/16 15:13	08/05/16 15:31	1
2,2'-oxybis[1-chloropropane]	1.0	U	1.0	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
Pentachlorophenol	5.0	U	5.0	0.40	ug/L		08/04/16 15:13	08/05/16 15:31	1
Phenanthrene	0.20	U	0.20	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
Phenol	1.0	U	1.0	0.13	ug/L		08/04/16 15:13	08/05/16 15:31	1
Pyrene	0.20	U	0.20	0.10	ug/L		08/04/16 15:13	08/05/16 15:31	1
2,4,5-Trichlorophenol	1.0	U	1.0	0.12	ug/L		08/04/16 15:13	08/05/16 15:31	1
2,4,6-Trichlorophenol	1.0	U	1.0	0.17	ug/L		08/04/16 15:13	08/05/16 15:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*58*		*31 - 107*	*08/04/16 15:13*	*08/05/16 15:31*	*1*
2-Fluorophenol	*52*		*18 - 112*	*08/04/16 15:13*	*08/05/16 15:31*	*1*
Nitrobenzene-d5 (Surr)	*71*		*37 - 103*	*08/04/16 15:13*	*08/05/16 15:31*	*1*
Phenol-d5 (Surr)	*57*		*20 - 113*	*08/04/16 15:13*	*08/05/16 15:31*	*1*
Terphenyl-d14 (Surr)	*75*		*22 - 121*	*08/04/16 15:13*	*08/05/16 15:31*	*1*
2,4,6-Tribromophenol (Surr)	*66*		*39 - 133*	*08/04/16 15:13*	*08/05/16 15:31*	*1*

Lab Sample ID: LCS 680-444265/5-A
Matrix: Water
Analysis Batch: 444483

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 444265

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	10.0	6.52		ug/L		65	41 - 130
Acenaphthylene	10.0	6.33		ug/L		63	37 - 130
Acetophenone	10.0	8.19		ug/L		82	45 - 130
Anthracene	10.0	8.38		ug/L		84	48 - 130
Atrazine	10.0	6.96		ug/L		70	30 - 130
Benzaldehyde	10.0	5.36		ug/L		54	17 - 130
Benzo[a]anthracene	10.0	7.99		ug/L		80	52 - 130
Benzo[a]pyrene	10.0	7.29		ug/L		73	44 - 130
Benzo[b]fluoranthene	10.0	7.27		ug/L		73	44 - 130
Benzo[g,h,i]perylene	10.0	7.41		ug/L		74	31 - 130
Benzo[k]fluoranthene	10.0	6.92		ug/L		69	39 - 131
1,1'-Biphenyl	10.0	6.24		ug/L		62	35 - 130
Bis(2-chloroethoxy)methane	10.0	7.84		ug/L		78	33 - 130
Bis(2-chloroethyl)ether	10.0	7.18		ug/L		72	29 - 130
Bis(2-ethylhexyl) phthalate	10.0	7.93		ug/L		79	40 - 130
4-Bromophenyl phenyl ether	10.0	8.94		ug/L		89	41 - 130
Butyl benzyl phthalate	10.0	8.77		ug/L		88	42 - 130
Caprolactam	10.0	8.28		ug/L		83	25 - 130
Carbazole	10.0	9.32		ug/L		93	48 - 130
4-Chloroaniline	10.0	5.97		ug/L		60	10 - 130
4-Chloro-3-methylphenol	10.0	8.90		ug/L		89	49 - 122

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 680-444265/5-A
Matrix: Water
Analysis Batch: 444483

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 444265

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chloronaphthalene	10.0	6.20		ug/L		62	31 - 130
2-Chlorophenol	10.0	7.24		ug/L		72	44 - 130
4-Chlorophenyl phenyl ether	10.0	6.61		ug/L		66	39 - 130
Chrysene	10.0	7.65		ug/L		76	47 - 130
Dibenz(a,h)anthracene	10.0	7.60		ug/L		76	36 - 130
Dibenzofuran	10.0	6.67		ug/L		67	38 - 130
3,3'-Dichlorobenzidine	10.0	7.26	J	ug/L		73	10 - 142
2,4-Dichlorophenol	10.0	8.15		ug/L		82	49 - 130
Diethyl phthalate	10.0	6.80		ug/L		68	46 - 130
2,4-Dimethylphenol	10.0	6.38		ug/L		64	37 - 130
Dimethyl phthalate	10.0	7.31		ug/L		73	48 - 130
Di-n-butyl phthalate	10.0	8.73		ug/L		87	43 - 130
4,6-Dinitro-2-methylphenol	20.0	20.4		ug/L		102	18 - 147
2,4-Dinitrophenol	20.0	16.7		ug/L		83	16 - 147
2,4-Dinitrotoluene	10.0	7.98		ug/L		80	51 - 130
2,6-Dinitrotoluene	10.0	7.81		ug/L		78	51 - 130
Di-n-octyl phthalate	10.0	8.00		ug/L		80	43 - 130
Fluoranthene	10.0	8.66		ug/L		87	50 - 130
Fluorene	10.0	6.93		ug/L		69	43 - 130
Hexachlorobenzene	10.0	8.46		ug/L		85	42 - 130
Hexachlorobutadiene	10.0	5.63		ug/L		56	23 - 130
Hexachlorocyclopentadiene	10.0	1.68	J	ug/L		17	10 - 130
Hexachloroethane	10.0	5.71		ug/L		57	23 - 130
Indeno[1,2,3-cd]pyrene	10.0	7.18		ug/L		72	30 - 130
Isophorone	10.0	8.14		ug/L		81	46 - 130
2-Methylnaphthalene	10.0	7.23		ug/L		72	33 - 130
2-Methylphenol	10.0	7.71		ug/L		77	42 - 130
3 & 4 Methylphenol	10.0	7.46		ug/L		75	44 - 130
Naphthalene	10.0	6.97		ug/L		70	40 - 130
2-Nitroaniline	10.0	8.24		ug/L		82	46 - 130
3-Nitroaniline	10.0	6.68		ug/L		67	14 - 130
4-Nitroaniline	10.0	7.27		ug/L		73	38 - 130
Nitrobenzene	10.0	7.79		ug/L		78	41 - 130
2-Nitrophenol	10.0	8.31		ug/L		83	50 - 130
4-Nitrophenol	20.0	16.8		ug/L		84	25 - 135
N-Nitrosodi-n-propylamine	10.0	7.78		ug/L		78	39 - 130
N-Nitrosodiphenylamine	10.0	8.65		ug/L		87	27 - 130
2,2'-oxybis[1-chloropropane]	10.0	7.56		ug/L		76	24 - 130
Pentachlorophenol	20.0	20.4		ug/L		102	27 - 134
Phenanthrene	10.0	9.21		ug/L		92	49 - 130
Phenol	10.0	6.79		ug/L		68	37 - 130
Pyrene	10.0	8.03		ug/L		80	45 - 130
2,4,5-Trichlorophenol	10.0	6.72		ug/L		67	49 - 130
2,4,6-Trichlorophenol	10.0	7.69		ug/L		77	48 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*62*		*31 - 107*
2-Fluorophenol	*64*		*18 - 112*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 680-444265/5-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444483 — **Prep Batch: 444265**

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*78*		*37 - 103*
Phenol-d5 (Surr)	*69*		*20 - 113*
Terphenyl-d14 (Surr)	*73*		*22 - 121*
2,4,6-Tribromophenol (Surr)	*74*		*39 - 133*

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 680-444336/2 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.050	U	0.050	0.023	mg/L			08/04/16 09:59	1

Lab Sample ID: LCS 680-444336/3 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444336

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.999	1.05		mg/L		106	90 - 110

Lab Sample ID: LCSD 680-444336/4 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444336

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	0.999	1.05		mg/L		105	90 - 110	0	15

Lab Sample ID: 680-128278-1 MS — **Client Sample ID: 1600780-GSP-19**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444336

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.050	U	0.999	1.00		mg/L		101	80 - 120

Lab Sample ID: 680-128278-1 MSD — **Client Sample ID: 1600780-GSP-19**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444336

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	0.050	U	0.999	1.01		mg/L		101	80 - 120	0	15

Lab Sample ID: MB 680-445446/2 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445446

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.0	U	1.0	0.40	mg/L			08/12/16 10:28	1
Chloride	0.50	U	0.50	0.20	mg/L			08/12/16 10:28	1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 680-445446/2 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445446

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.50	U	0.50	0.20	mg/L			08/12/16 10:28	1

Lab Sample ID: LCS 680-445446/3 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445446

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	10.0	10.3		mg/L		103	90 - 110
Chloride	10.0	10.4		mg/L		104	90 - 110
Bromide	10.0	10.6		mg/L		106	90 - 110

Lab Sample ID: LCSD 680-445446/4 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445446

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	10.0	10.2		mg/L		102	90 - 110	1	15
Chloride	10.0	10.2		mg/L		102	90 - 110	1	15
Bromide	10.0	10.5		mg/L		105	90 - 110	1	15

Lab Sample ID: MB 680-445578/35 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445578

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.0	U	1.0	0.40	mg/L			08/12/16 20:39	1
Chloride	0.50	U	0.50	0.20	mg/L			08/12/16 20:39	1
Bromide	0.50	U	0.50	0.20	mg/L			08/12/16 20:39	1

Lab Sample ID: LCS 680-445578/36 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445578

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	10.0	10.2		mg/L		102	90 - 110
Chloride	10.0	10.4		mg/L		104	90 - 110
Bromide	10.0	10.7		mg/L		107	90 - 110

Lab Sample ID: LCSD 680-445578/37 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445578

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	10.0	10.3		mg/L		103	90 - 110	0	15
Chloride	10.0	10.4		mg/L		104	90 - 110	0	15
Bromide	10.0	10.7		mg/L		107	90 - 110	0	15

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 680-128278-2 MS — **Client Sample ID: 1600780-MW-17**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445578

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	2.5		10.0	12.6		mg/L		101	80 - 120
Chloride	130	E	10.0	136	E 4	mg/L		91	80 - 120
Bromide	0.69		10.0	11.3		mg/L		106	80 - 120

Lab Sample ID: 680-128278-2 MSD — **Client Sample ID: 1600780-MW-17**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445578

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	2.5		10.0	12.6		mg/L		101	80 - 120	0	15
Chloride	130	E	10.0	137	E 4	mg/L		100	80 - 120	1	15
Bromide	0.69		10.0	11.4		mg/L		107	80 - 120	1	15

Lab Sample ID: MB 680-445896/36 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445896

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.0	U	1.0	0.40	mg/L			08/15/16 19:32	1
Chloride	0.50	U	0.50	0.20	mg/L			08/15/16 19:32	1
Bromide	0.50	U	0.50	0.20	mg/L			08/15/16 19:32	1

Lab Sample ID: LCS 680-445896/37 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445896

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	10.0	9.38		mg/L		94	90 - 110
Chloride	10.0	9.55		mg/L		95	90 - 110

Lab Sample ID: LCSD 680-445896/38 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445896

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	10.0	9.45		mg/L		95	90 - 110	1	15
Chloride	10.0	9.53		mg/L		95	90 - 110	0	15

Lab Sample ID: 680-128278-1 MS — **Client Sample ID: 1600780-GSP-19**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445896

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	300		100	398		mg/L		94	80 - 120
Chloride	320		100	417		mg/L		94	80 - 120

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 680-128278-1 MSD — **Client Sample ID: 1600780-GSP-19**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445896

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	300		100	396		mg/L		93	80 - 120	0	15
Chloride	320		100	415		mg/L		91	80 - 120	1	15

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-445209/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445678 — **Prep Batch: 445209**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	20	U	20	5.3	ug/L		08/10/16 16:21	08/12/16 13:43	1
Arsenic	20	U	20	6.2	ug/L		08/10/16 16:21	08/12/16 13:43	1
Beryllium	4.0	U	4.0	0.10	ug/L		08/10/16 16:21	08/12/16 13:43	1
Cadmium	5.0	U	5.0	1.0	ug/L		08/10/16 16:21	08/12/16 13:43	1
Calcium	500	U	500	25	ug/L		08/10/16 16:21	08/12/16 13:43	1
Chromium	10	U	10	1.6	ug/L		08/10/16 16:21	08/12/16 13:43	1
Copper	20	U	20	1.8	ug/L		08/10/16 16:21	08/12/16 13:43	1
Lead	10	U	10	3.9	ug/L		08/10/16 16:21	08/12/16 13:43	1
Magnesium	500	U	500	33	ug/L		08/10/16 16:21	08/12/16 13:43	1
Manganese	10	U	10	1.0	ug/L		08/10/16 16:21	08/12/16 13:43	1
Nickel	40	U	40	2.1	ug/L		08/10/16 16:21	08/12/16 13:43	1
Potassium	1000	U	1000	17	ug/L		08/10/16 16:21	08/12/16 13:43	1
Selenium	20	U	20	9.9	ug/L		08/10/16 16:21	08/12/16 13:43	1
Silver	10	U	10	0.60	ug/L		08/10/16 16:21	08/12/16 13:43	1
Sodium	1000	U	1000	480	ug/L		08/10/16 16:21	08/12/16 13:43	1
Thallium	25	U	25	6.0	ug/L		08/10/16 16:21	08/12/16 13:43	1
Zinc	20	U	20	7.0	ug/L		08/10/16 16:21	08/12/16 13:43	1

Lab Sample ID: LCS 680-445209/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445678 — **Prep Batch: 445209**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	53.9		ug/L		108	80 - 120
Arsenic	100	107		ug/L		107	80 - 120
Beryllium	50.0	54.0		ug/L		108	80 - 120
Cadmium	50.0	51.5		ug/L		103	80 - 120
Calcium	5000	5070		ug/L		101	80 - 120
Chromium	100	104		ug/L		104	80 - 120
Copper	100	105		ug/L		105	80 - 120
Lead	500	505		ug/L		101	80 - 120
Magnesium	5000	5090		ug/L		102	80 - 120
Manganese	500	524		ug/L		105	80 - 120
Nickel	100	101		ug/L		101	80 - 120
Potassium	8000	8560		ug/L		107	80 - 120
Selenium	100	100		ug/L		100	80 - 120
Silver	50.0	50.6		ug/L		101	80 - 120
Sodium	5000	4740		ug/L		95	80 - 120

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

Lab Sample ID: LCS 680-445209/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445678 — **Prep Batch: 445209**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	40.0	39.6		ug/L		99	80 - 120
Zinc	100	103		ug/L		103	80 - 120

Lab Sample ID: 680-128278-1 MS — **Client Sample ID: 1600780-GSP-19**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445678 — **Prep Batch: 445209**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	20	U	50.0	54.6		ug/L		109	75 - 125
Arsenic	7.8	J	100	114		ug/L		107	75 - 125
Beryllium	4.0	U	50.0	52.6		ug/L		105	75 - 125
Cadmium	5.0	U	50.0	49.0		ug/L		98	75 - 125
Calcium	280000		5000	280000	4	ug/L		6	75 - 125
Chromium	10	U	100	101		ug/L		101	75 - 125
Copper	20	U	100	104		ug/L		104	75 - 125
Lead	10	U	500	481		ug/L		96	75 - 125
Magnesium	54000		5000	58200	4	ug/L		83	75 - 125
Manganese	480		500	987		ug/L		100	75 - 125
Nickel	6.6	J	100	102		ug/L		95	75 - 125
Potassium	7900		8000	17200		ug/L		116	75 - 125
Selenium	20	U	100	99.7		ug/L		100	75 - 125
Silver	10	U	50.0	50.7		ug/L		101	75 - 125
Sodium	190000		5000	191000	4	ug/L		60	75 - 125
Thallium	25	U	40.0	35.5		ug/L		89	75 - 125
Zinc	20	U	100	102		ug/L		102	75 - 125

Lab Sample ID: 680-128278-1 MSD — **Client Sample ID: 1600780-GSP-19**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445678 — **Prep Batch: 445209**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	20	U	50.0	55.1		ug/L		110	75 - 125	1	20
Arsenic	7.8	J	100	114		ug/L		106	75 - 125	1	20
Beryllium	4.0	U	50.0	53.8		ug/L		108	75 - 125	2	20
Cadmium	5.0	U	50.0	50.4		ug/L		101	75 - 125	3	20
Calcium	280000		5000	286000	4	ug/L		127	75 - 125	2	20
Chromium	10	U	100	103		ug/L		103	75 - 125	2	20
Copper	20	U	100	107		ug/L		107	75 - 125	2	20
Lead	10	U	500	492		ug/L		98	75 - 125	2	20
Magnesium	54000		5000	59400	4	ug/L		107	75 - 125	2	20
Manganese	480		500	1010		ug/L		105	75 - 125	2	20
Nickel	6.6	J	100	105		ug/L		98	75 - 125	3	20
Potassium	7900		8000	17600		ug/L		122	75 - 125	2	20
Selenium	20	U	100	103		ug/L		103	75 - 125	3	20
Silver	10	U	50.0	50.9		ug/L		102	75 - 125	0	20
Sodium	190000		5000	196000	4	ug/L		147	75 - 125	2	20
Thallium	25	U	40.0	36.5		ug/L		91	75 - 125	3	20
Zinc	20	U	100	103		ug/L		103	75 - 125	1	20

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

Lab Sample ID: MB 680-446051/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446234 — **Prep Batch: 446051**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	50	U	50	17	ug/L		08/17/16 09:22	08/18/16 08:02	1

Lab Sample ID: LCS 680-446051/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446234 — **Prep Batch: 446051**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	5000	4620		ug/L		92	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-444468/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444770 — **Prep Batch: 444468**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.080	ug/L		08/05/16 09:31	08/05/16 18:04	1

Lab Sample ID: LCS 680-444468/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444770 — **Prep Batch: 444468**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.70		ug/L		108	80 - 120

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 680-446431/7 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446431

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	5.0	U	5.0	5.0	mg/L			08/18/16 17:15	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	5.0	mg/L			08/18/16 17:15	1

Lab Sample ID: LCS 680-446431/8 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446431

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	250	230		mg/L		92	80 - 120

Lab Sample ID: LCSD 680-446431/34 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446431

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity	250	231		mg/L		92	80 - 120	0	30

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: MB 680-446525/7 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	5.0	U	5.0	5.0	mg/L			08/19/16 13:31	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	5.0	mg/L			08/19/16 13:31	1

Lab Sample ID: LCS 680-446525/8 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446525

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	250	230		mg/L		92	80 - 120

Lab Sample ID: LCSD 680-446525/13 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446525

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity	250	230		mg/L		92	80 - 120	0	30

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 680-444749/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444749

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			08/08/16 12:17	1

Lab Sample ID: LCS 680-444749/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444749

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	59.0	56.0		mg/L		95	80 - 120

Lab Sample ID: LCSD 680-444749/3 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444749

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids	59.0	52.0		mg/L		88	80 - 120	7	25

Lab Sample ID: MB 680-444932/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444932

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			08/09/16 11:54	1

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C) (Continued)

Lab Sample ID: LCS 680-444932/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444932

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	59.0	50.0		mg/L		85	80 - 120

Lab Sample ID: LCSD 680-444932/3 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444932

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids	59.0	49.0		mg/L		83	80 - 120	2	25

Method: 350.1-1993 R2.0 - Nitrogen, Ammonia

Lab Sample ID: MB 680-445377/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445377

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.25	U	0.25	0.10	mg/L			08/11/16 15:04	1

Lab Sample ID: LCS 680-445377/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445377

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	0.985		mg/L		99	90 - 110

Lab Sample ID: LCSD 680-445377/13 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445377

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia	1.00	1.01		mg/L		101	90 - 110	2	30

Lab Sample ID: 680-128278-1 MS — **Client Sample ID: 1600780-GSP-19**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445377

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	0.15	J F1	1.00	1.29	F1	mg/L		114	90 - 110

Lab Sample ID: 680-128278-1 MSD — **Client Sample ID: 1600780-GSP-19**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445377

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia	0.15	J F1	1.00	1.28	F1	mg/L		113	90 - 110	1	30

Method: 350.1-1993 R2.0 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 680-128278-2 MS — **Client Sample ID: 1600780-MW-17**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445377

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	0.10	J	1.00	1.04		mg/L		93	90 - 110

Lab Sample ID: 680-128278-2 MSD — **Client Sample ID: 1600780-MW-17**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445377

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia	0.10	J	1.00	1.04		mg/L		94	90 - 110	0	30

Method: 365.4-1974 - Phosphorus, Total

Lab Sample ID: MB 680-445443/10-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445740 — **Prep Batch: 445443**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	0.10	U	0.10	0.041	mg/L		08/12/16 09:49	08/15/16 11:02	1

Lab Sample ID: LCS 680-445443/11-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445740 — **Prep Batch: 445443**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	2.00	1.96		mg/L		98	60 - 140

Method: 376.1-1978 - Sulfide

Lab Sample ID: MB 680-444847/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444847

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	1.0	U	1.0	1.0	mg/L			08/09/16 05:10	1

Lab Sample ID: LCS 680-444847/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444847

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	10.0	10.7		mg/L		107	75 - 125

Lab Sample ID: LCSD 680-444847/3 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444847

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide	10.0	10.6		mg/L		106	75 - 125	2	30

QC Association Summary

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128278-1

GC/MS VOA

Analysis Batch: 445229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128278-1	1600780-GSP-19	Total/NA	Water	8260B	
680-128278-2	1600780-MW-17	Total/NA	Water	8260B	
680-128278-6	1600780-TRIP BLANK	Total/NA	Water	8260B	
MB 680-445229/9	Method Blank	Total/NA	Water	8260B	
LCS 680-445229/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-445229/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 445400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128278-2 - DL	1600780-MW-17	Total/NA	Water	8260B	
MB 680-445400/9	Method Blank	Total/NA	Water	8260B	
LCS 680-445400/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-445400/5	Lab Control Sample Dup	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 444265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128278-1	1600780-GSP-19	Total/NA	Water	3520C	
680-128278-2 - DL	1600780-MW-17	Total/NA	Water	3520C	
680-128278-2	1600780-MW-17	Total/NA	Water	3520C	
MB 680-444265/4-A	Method Blank	Total/NA	Water	3520C	
LCS 680-444265/5-A	Lab Control Sample	Total/NA	Water	3520C	

Analysis Batch: 444483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128278-1	1600780-GSP-19	Total/NA	Water	8270D LL	444265
680-128278-2	1600780-MW-17	Total/NA	Water	8270D LL	444265
MB 680-444265/4-A	Method Blank	Total/NA	Water	8270D LL	444265
LCS 680-444265/5-A	Lab Control Sample	Total/NA	Water	8270D LL	444265

Analysis Batch: 444639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128278-2 - DL	1600780-MW-17	Total/NA	Water	8270D LL	444265

HPLC/IC

Analysis Batch: 444336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128278-1	1600780-GSP-19	Total/NA	Water	300.0-1993 R2.1	
680-128278-2	1600780-MW-17	Total/NA	Water	300.0-1993 R2.1	
MB 680-444336/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-444336/3	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-444336/4	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-128278-1 MS	1600780-GSP-19	Total/NA	Water	300.0-1993 R2.1	
680-128278-1 MSD	1600780-GSP-19	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 445446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128278-1	1600780-GSP-19	Total/NA	Water	300.0-1993 R2.1	

HPLC/IC (Continued)

Analysis Batch: 445446 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-445446/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-445446/3	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-445446/4	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 445578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128278-2	1600780-MW-17	Total/NA	Water	300.0-1993 R2.1	
MB 680-445578/35	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-445578/36	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-445578/37	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-128278-2 MS	1600780-MW-17	Total/NA	Water	300.0-1993 R2.1	
680-128278-2 MSD	1600780-MW-17	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 445896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128278-1	1600780-GSP-19	Total/NA	Water	300.0-1993 R2.1	
680-128278-2	1600780-MW-17	Total/NA	Water	300.0-1993 R2.1	
MB 680-445896/36	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-445896/37	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-445896/38	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-128278-1 MS	1600780-GSP-19	Total/NA	Water	300.0-1993 R2.1	
680-128278-1 MSD	1600780-GSP-19	Total/NA	Water	300.0-1993 R2.1	

Metals

Prep Batch: 444468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128278-1	1600780-GSP-19	Total/NA	Water	7470A	
680-128278-2	1600780-MW-17	Total/NA	Water	7470A	
MB 680-444468/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-444468/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 444770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128278-1	1600780-GSP-19	Total/NA	Water	7470A	444468
680-128278-2	1600780-MW-17	Total/NA	Water	7470A	444468
MB 680-444468/1-A	Method Blank	Total/NA	Water	7470A	444468
LCS 680-444468/2-A	Lab Control Sample	Total/NA	Water	7470A	444468

Prep Batch: 445209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128278-1	1600780-GSP-19	Total/NA	Water	3010A	
680-128278-2	1600780-MW-17	Total/NA	Water	3010A	
MB 680-445209/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-445209/2-A	Lab Control Sample	Total/NA	Water	3010A	
680-128278-1 MS	1600780-GSP-19	Total/NA	Water	3010A	
680-128278-1 MSD	1600780-GSP-19	Total/NA	Water	3010A	

Metals (Continued)

Analysis Batch: 445678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128278-1	1600780-GSP-19	Total/NA	Water	6010C	445209
680-128278-2	1600780-MW-17	Total/NA	Water	6010C	445209
MB 680-445209/1-A	Method Blank	Total/NA	Water	6010C	445209
LCS 680-445209/2-A	Lab Control Sample	Total/NA	Water	6010C	445209
680-128278-1 MS	1600780-GSP-19	Total/NA	Water	6010C	445209
680-128278-1 MSD	1600780-GSP-19	Total/NA	Water	6010C	445209

Prep Batch: 446051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128278-1	1600780-GSP-19	Total/NA	Water	3010A	
680-128278-2	1600780-MW-17	Total/NA	Water	3010A	
MB 680-446051/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-446051/2-A	Lab Control Sample	Total/NA	Water	3010A	

Analysis Batch: 446234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128278-1	1600780-GSP-19	Total/NA	Water	6010C	446051
680-128278-2	1600780-MW-17	Total/NA	Water	6010C	446051
MB 680-446051/1-A	Method Blank	Total/NA	Water	6010C	446051
LCS 680-446051/2-A	Lab Control Sample	Total/NA	Water	6010C	446051

General Chemistry

Analysis Batch: 444749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128278-1	1600780-GSP-19	Total/NA	Water	2540C-2011	
MB 680-444749/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-444749/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-444749/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	

Analysis Batch: 444847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128278-1	1600780-GSP-19	Total/NA	Water	376.1-1978	
680-128278-2	1600780-MW-17	Total/NA	Water	376.1-1978	
MB 680-444847/1	Method Blank	Total/NA	Water	376.1-1978	
LCS 680-444847/2	Lab Control Sample	Total/NA	Water	376.1-1978	
LCSD 680-444847/3	Lab Control Sample Dup	Total/NA	Water	376.1-1978	

Analysis Batch: 444932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128278-2	1600780-MW-17	Total/NA	Water	2540C-2011	
MB 680-444932/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-444932/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-444932/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	

Analysis Batch: 445377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128278-1	1600780-GSP-19	Total/NA	Water	350.1-1993 R2.0	
680-128278-2	1600780-MW-17	Total/NA	Water	350.1-1993 R2.0	
MB 680-445377/1	Method Blank	Total/NA	Water	350.1-1993 R2.0	

General Chemistry (Continued)

Analysis Batch: 445377 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-445377/2	Lab Control Sample	Total/NA	Water	350.1-1993 R2.0	
LCSD 680-445377/13	Lab Control Sample Dup	Total/NA	Water	350.1-1993 R2.0	
680-128278-1 MS	1600780-GSP-19	Total/NA	Water	350.1-1993 R2.0	
680-128278-1 MSD	1600780-GSP-19	Total/NA	Water	350.1-1993 R2.0	
680-128278-2 MS	1600780-MW-17	Total/NA	Water	350.1-1993 R2.0	
680-128278-2 MSD	1600780-MW-17	Total/NA	Water	350.1-1993 R2.0	

Prep Batch: 445443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128278-1	1600780-GSP-19	Total/NA	Water	Digestion	
680-128278-2	1600780-MW-17	Total/NA	Water	Digestion	
MB 680-445443/10-A	Method Blank	Total/NA	Water	Digestion	
LCS 680-445443/11-A	Lab Control Sample	Total/NA	Water	Digestion	

Analysis Batch: 445740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128278-1	1600780-GSP-19	Total/NA	Water	365.4-1974	445443
680-128278-2	1600780-MW-17	Total/NA	Water	365.4-1974	445443
MB 680-445443/10-A	Method Blank	Total/NA	Water	365.4-1974	445443
LCS 680-445443/11-A	Lab Control Sample	Total/NA	Water	365.4-1974	445443

Analysis Batch: 446431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128278-2	1600780-MW-17	Total/NA	Water	2320B-2011	
MB 680-446431/7	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-446431/8	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-446431/34	Lab Control Sample Dup	Total/NA	Water	2320B-2011	

Analysis Batch: 446525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128278-1	1600780-GSP-19	Total/NA	Water	2320B-2011	
MB 680-446525/7	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-446525/8	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-446525/13	Lab Control Sample Dup	Total/NA	Water	2320B-2011	

Lab Chronicle

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128278-1

Client Sample ID: 1600780-GSP-19

Lab Sample ID: 680-128278-1

Date Collected: 08/03/16 09:50
Matrix: Water
Date Received: 08/04/16 09:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	445229	08/11/16 11:11	CEJ	TAL SAV
	Instrument ID:	CMSA2								
Total/NA	Prep	3520C			1047.5 mL	1 mL	444265	08/04/16 15:13	RBS	TAL SAV
Total/NA	Analysis	8270D LL		1			444483	08/05/16 18:35	JEM	TAL SAV
	Instrument ID:	CMSF								
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	444336	08/04/16 13:01	ALR	TAL SAV
	Instrument ID:	CICG								
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	445446	08/12/16 20:04	JRJ	TAL SAV
	Instrument ID:	CICH								
Total/NA	Analysis	300.0-1993 R2.1		10	5 mL	5 mL	445896	08/16/16 00:28	JRJ	TAL SAV
	Instrument ID:	CICK								
Total/NA	Prep	3010A			50 mL	50 mL	445209	08/10/16 16:21	AJR	TAL SAV
Total/NA	Analysis	6010C		1			445678	08/12/16 13:53	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Prep	3010A			50 mL	50 mL	446051	08/17/16 10:21	AJR	TAL SAV
Total/NA	Analysis	6010C		1			446234	08/18/16 09:25	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Prep	7470A			50 mL	50 mL	444468	08/05/16 09:31	JKL	TAL SAV
Total/NA	Analysis	7470A		1			444770	08/05/16 18:49	JKL	TAL SAV
	Instrument ID:	LEEMAN2								
Total/NA	Analysis	2320B-2011		1			446525	08/19/16 13:48	JCM	TAL SAV
	Instrument ID:	MANTECH								
Total/NA	Analysis	2540C-2011		1	50 mL	100 mL	444749	08/08/16 12:17	JCM	TAL SAV
	Instrument ID:	NOEQUIP								
Total/NA	Analysis	350.1-1993 R2.0		1	2 mL	2 mL	445377	08/11/16 15:23	CRW	TAL SAV
	Instrument ID:	KONELAB1								
Total/NA	Prep	Digestion			20 mL	20 mL	445443	08/12/16 09:49	CFJ	TAL SAV
Total/NA	Analysis	365.4-1974		1	2 mL	2 mL	445740	08/15/16 11:16	JER	TAL SAV
	Instrument ID:	LACHAT3								
Total/NA	Analysis	376.1-1978		1	250 mL	250 mL	444847	08/09/16 05:10	DAM	TAL SAV
	Instrument ID:	NOEQUIP								

Client Sample ID: 1600780-MW-17

Lab Sample ID: 680-128278-2

Date Collected: 08/03/16 10:32
Matrix: Water
Date Received: 08/04/16 09:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	5 mL	5 mL	445229	08/11/16 12:13	CEJ	TAL SAV
	Instrument ID:	CMSA2								
Total/NA	Analysis	8260B	DL	100	5 mL	5 mL	445400	08/12/16 10:25	CEJ	TAL SAV
	Instrument ID:	CMSA2								
Total/NA	Prep	3520C			1047.4 mL	1 mL	444265	08/04/16 15:13	RBS	TAL SAV

Lab Chronicle

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128278-1

Client Sample ID: 1600780-MW-17

Lab Sample ID: 680-128278-2

Date Collected: 08/03/16 10:32
Date Received: 08/04/16 09:04

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D LL		1			444483	08/05/16 19:01	JEM	TAL SAV
	Instrument ID:	CMSF								
Total/NA	Prep	3520C	DL		1047.4 mL	1 mL	444265	08/04/16 15:13	RBS	TAL SAV
Total/NA	Analysis	8270D LL	DL	10			444639	08/06/16 18:28	JEM	TAL SAV
	Instrument ID:	CMSF								
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	444336	08/04/16 13:50	ALR	TAL SAV
	Instrument ID:	CICG								
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	445578	08/12/16 21:31	JRJ	TAL SAV
	Instrument ID:	CICH								
Total/NA	Analysis	300.0-1993 R2.1		5	5 mL	5 mL	445896	08/16/16 00:10	JRJ	TAL SAV
	Instrument ID:	CICK								
Total/NA	Prep	3010A			50 mL	50 mL	445209	08/10/16 16:21	AJR	TAL SAV
Total/NA	Analysis	6010C		1			445678	08/12/16 14:19	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Prep	3010A			50 mL	50 mL	446051	08/17/16 10:21	AJR	TAL SAV
Total/NA	Analysis	6010C		1			446234	08/18/16 09:29	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Prep	7470A			50 mL	50 mL	444468	08/05/16 09:31	JKL	TAL SAV
Total/NA	Analysis	7470A		1			444770	08/05/16 18:54	JKL	TAL SAV
	Instrument ID:	LEEMAN2								
Total/NA	Analysis	2320B-2011		1			446431	08/18/16 17:57	JCM	TAL SAV
	Instrument ID:	MANTECH								
Total/NA	Analysis	2540C-2011		1	50 mL	100 mL	444932	08/09/16 11:54	LAF	TAL SAV
	Instrument ID:	NOEQUIP								
Total/NA	Analysis	350.1-1993 R2.0		1	2 mL	2 mL	445377	08/11/16 15:23	CRW	TAL SAV
	Instrument ID:	KONELAB1								
Total/NA	Prep	Digestion			20 mL	20 mL	445443	08/12/16 09:49	CFJ	TAL SAV
Total/NA	Analysis	365.4-1974		1	2 mL	2 mL	445740	08/15/16 11:11	JER	TAL SAV
	Instrument ID:	LACHAT3								
Total/NA	Analysis	376.1-1978		1	250 mL	250 mL	444847	08/09/16 05:10	DAM	TAL SAV
	Instrument ID:	NOEQUIP								

Client Sample ID: 1600780-TRIP BLANK

Lab Sample ID: 680-128278-6

Date Collected: 08/03/16 00:00
Date Received: 08/04/16 09:04

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	445229	08/11/16 09:28	CEJ	TAL SAV
	Instrument ID:	CMSA2								

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Certification Summary

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128278-1

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-17
A2LA	ISO/IEC 17025		399.01	02-28-17
Alabama	State Program	4	41450	06-30-17
Alaska (UST)	State Program	10	UST-104	11-05-16
Arkansas DEQ	State Program	6	88-0692	01-31-17
California	State Program	9	2939	07-31-16 *
Colorado	State Program	8	N/A	12-31-16
Connecticut	State Program	1	PH-0161	03-31-17
Florida	NELAP	4	E87052	06-30-17
GA Dept. of Agriculture	State Program	4	N/A	06-12-17
Georgia	State Program	4	N/A	06-30-17
Georgia	State Program	4	803	06-30-17
Guam	State Program	9	15-005r	04-16-17
Hawaii	State Program	9	N/A	06-30-17
Illinois	NELAP	5	200022	11-30-16
Indiana	State Program	5	N/A	06-30-17
Iowa	State Program	7	353	06-30-17
Kentucky (DW)	State Program	4	90084	12-31-16
Kentucky (UST)	State Program	4	18	06-30-17
Kentucky (WW)	State Program	4	90084	12-31-16
Louisiana	NELAP	6	30690	06-30-17
Louisiana (DW)	NELAP	6	LA160019	12-31-16
Maine	State Program	1	GA00006	09-24-18
Maryland	State Program	3	250	12-31-16
Massachusetts	State Program	1	M-GA006	06-30-17
Michigan	State Program	5	9925	06-30-17
Mississippi	State Program	4	N/A	06-30-16 *
Nebraska	State Program	7	TestAmerica-Savannah	06-30-17
New Jersey	NELAP	2	GA769	06-30-17
New Mexico	State Program	6	N/A	06-30-17
New York	NELAP	2	10842	03-31-17
North Carolina (DW)	State Program	4	13701	07-31-17
North Carolina (WW/SW)	State Program	4	269	12-31-16
Oklahoma	State Program	6	9984	08-31-17
Pennsylvania	NELAP	3	68-00474	06-30-17
Puerto Rico	State Program	2	GA00006	12-31-16
South Carolina	State Program	4	98001	06-30-17
Tennessee	State Program	4	TN02961	06-30-17
Texas	NELAP	6	T104704185-15-8	11-30-16
USDA	Federal		SAV 3-04	06-11-17
Virginia	NELAP	3	460161	06-14-17
Washington	State Program	10	C805	06-10-17
West Virginia (DW)	State Program	3	9950C	12-31-16
West Virginia DEP	State Program	3	094	08-31-16
Wisconsin	State Program	5	999819810	08-31-17
Wyoming	State Program	8	8TMS-L	06-30-16 *

* Certification renewal pending - certification considered valid.

Method Summary

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128278-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL SAV
300.0-1993 R2.1	Anions, Ion Chromatography	MCAWW	TAL SAV
6010C	Metals (ICP)	SW846	TAL SAV
7470A	Mercury (CVAA)	SW846	TAL SAV
2320B-2011	Alkalinity, Total	SM	TAL SAV
2540C-2011	Total Dissolved Solids (Dried at 180 °C)	SM	TAL SAV
350.1-1993 R2.0	Nitrogen, Ammonia	MCAWW	TAL SAV
365.4-1974	Phosphorus, Total	EPA	TAL SAV
376.1-1978	Sulfide	MCAWW	TAL SAV

Protocol References:

EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater",
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number 110129

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Lab Proj# 680-16768

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: Zill LLC (GEI)	PROJECT NO.: 1600780	PROJECT LOCATION (STATE): MO
TAL (LAB) PROJECT MANAGER: Kathy Smith	P.O. NUMBER:	CONTRACT NO.:
CLIENT (SITE) PM: Lisa Reyenga	CLIENT PHONE: 817-380-3901	CLIENT FAX:
CLIENT NAME: GEI Consultants	CLIENT E-MAIL: lreyenga@geiconsultants.com	
CLIENT ADDRESS: 4601 DTC Blvd #900 Denver CO 80237		
COMPANY CONTRACTING THIS WORK (if applicable):		

PAGE 1 OF

STANDARD REPORT DELIVERY ●

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	8260	8270	PP Metals	EPA 6010	Nitrate	Sulfate	Sulfide	Chloride	Bicarbonate	Bromide	Ammonia	Phosphorus	TDS	Alkalinity	REMARKS
								NUMBER OF CONTAINERS SUBMITTED														
8/3/16	0950	1600780-GSP-19		X				13	Total													
	1032	1600780-MW-17		X				13	Total													
	1455	1600780-RW-2		X				13	Total													
	1345	1600780-FB-2		X				13	Total													
	1500	1600780-RW-1		X				~~13~~ 13	Total													No 8260 SAMPLE FOR RW-1
8/3/16		1600780-TRIP BLANK		X				2	VOAs for 8260													

2 coolers

680-128278 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	8/3/16	1800						
RECEIVED BY: (SIGNATURE) FED EX	DATE 8/3/16	TIME 1800	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	8/4/16	0904	YES ○ NO ○		128278	2.8°C (T) 2.6°C / 16.0°C (T) 15.8°C

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 680-128278-1

Login Number: 128278
List Number: 1
Creator: Flanagan, Naomi V

List Source: TestAmerica Savannah

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-128342-1
Client Project/Site: Zill LLC
Revision: 1

For:
GEI Consultants, Inc.
CentreGreen Two
4000 CentreGreen Way
Suite 180
Cary, North Carolina 27513

Attn: Brooke Bennett

Kathryn Smith

Authorized for release by:
9/30/2016 12:53:00 PM

Kathryn Smith, Project Manager II
(912)354-7858
kathy.smith@testamericainc.com

LINKS

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Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

Definitions/Glossary

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128342-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Sample Summary

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128342-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-128342-1	Trip Blank	Water	08/04/16 00:00	08/05/16 08:59
680-128342-2	1600780-MW-26	Water	08/04/16 09:45	08/05/16 08:59
680-128342-3	1600780-MW-12	Water	08/04/16 09:27	08/05/16 08:59
680-128342-4	1600780-MW-1	Water	08/04/16 11:46	08/05/16 08:59
680-128342-5	1600780-MW-18	Water	08/04/16 12:04	08/05/16 08:59
680-128342-6	1600780-DUP-1	Water	08/04/16 12:00	08/05/16 08:59
680-128342-7	1600780-FB-3	Water	08/04/16 14:45	08/05/16 08:59
680-128342-8	1600780-MW-23	Water	08/04/16 15:44	08/05/16 08:59
680-128342-9	1600780-MW-25	Water	08/04/16 15:57	08/05/16 08:59
680-128342-10	1600780-MW-C	Water	08/04/16 12:50	08/05/16 08:59
680-128342-11	1600780-GSP-10	Water	08/04/16 09:02	08/05/16 08:59

Job ID: 680-128342-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE
Client: GEI Consultants, Inc.
Project: Zill LLC

Report Number: 680-128342-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT
The samples were received on 08/05/2016; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 0.7º C, 1.1º C, 1.2º C, 1.5º C, 2.3º C and 2.9º C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)
Samples Trip Blank (680-128342-1), 1600780-MW-26 (680-128342-2), 1600780-MW-12 (680-128342-3), 1600780-MW-1 (680-128342-4), 1600780-MW-18 (680-128342-5), 1600780-DUP-1 (680-128342-6), 1600780-FB-3 (680-128342-7), 1600780-MW-23 (680-128342-8), 1600780-MW-25 (680-128342-9) and 1600780-MW-C (680-128342-10) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 08/11/2016, 08/12/2016, 08/13/2016 and 08/18/2016.

Several analytes recovered low for the MS of sample 1600780-MW-18 MSMS (680-128342-5) in batch 680-445597. 2-Butanone (MEK) and Toluene recovered high.

m-Xylene & p-Xylene recovered low for the MSD of sample 1600780-MW-18 MSDMSD (680-128342-5) in batch 680-445597. 2-Butanone (MEK) and Acetone recovered high.

Samples 1600780-MW-12 (680-128342-3)[10X], 1600780-MW-12 (680-128342-3)[100X], 1600780-MW-12 (680-128342-3)[20X], 1600780-MW-1 (680-128342-4)[10X], 1600780-MW-18 (680-128342-5)[50X], 1600780-DUP-1 (680-128342-6)[50X], 1600780-MW-23 (680-128342-8)[100X], 1600780-MW-23 (680-128342-8)[200X], 1600780-MW-C (680-128342-10)[100X] and 1600780-MW-C (680-128342-10)[50X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS) DISSOLVED
Samples 1600780-MW-12 (680-128342-3) and 1600780-MW-C (680-128342-10) were analyzed for Semivolatile Organic Compounds (GC/MS) Dissolved in accordance with EPA SW-846 Method 8270D. The samples were prepared on 08/08/2016 and analyzed on 08/10/2016.

The following samples was diluted due to the abundance of target analytes and the nature of the sample matrix: 1600780-MW-12 (680-128342-3) and 1600780-MW-C (680-128342-10). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

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

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS) - LOW LEVEL
Samples 1600780-MW-26 (680-128342-2), 1600780-MW-12 (680-128342-3), 1600780-MW-1 (680-128342-4), 1600780-MW-18 (680-128342-5), 1600780-DUP-1 (680-128342-6), 1600780-MW-23 (680-128342-8), 1600780-MW-25 (680-128342-9) and 1600780-MW-C (680-128342-10) were analyzed for Semivolatile Organic Compounds (GC/MS) - Low level in accordance with EPA SW-846 Method 8270D. The samples were prepared on 08/08/2016 and analyzed on 08/09/2016 and 08/10/2016.

The following samples was diluted due to the abundance of target analytes and the nature of the sample matrix: 1600780-MW-12

Job ID: 680-128342-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

(680-128342-3), 1600780-MW-18 (680-128342-5), 1600780-DUP-1 (680-128342-6), 1600780-MW-23 (680-128342-8) and 1600780-MW-C (680-128342-10). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 680-444703 and analytical batch 680-445011 recovered outside control limits for the following analyte(s): Hexachlorocyclopentadiene. Hexachlorocyclopentadiene has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

Several analytes recovered low for the MS of sample 1600780-MW-18 MSMS (680-128342-5) in batch 680-445011. Benzaldehyde recovered high.

For the MSD of sample 1600780-MW-18 MSDMSD (680-128342-5) in batch 680-445011, Several analytes recovered low. Benzaldehyde recovered high. Also, Dimethyl phthalate exceeded the RPD limit.

Samples 1600780-MW-12 (680-128342-3)[10X], 1600780-MW-12 (680-128342-3)[100X], 1600780-MW-1 (680-128342-4)[5X], 1600780-MW-18 (680-128342-5)[5X], 1600780-MW-18 (680-128342-5)[50X], 1600780-DUP-1 (680-128342-6)[10X], 1600780-MW-23 (680-128342-8)[10X], 1600780-MW-23 (680-128342-8)[100X], 1600780-MW-25 (680-128342-9)[5X], 1600780-MW-C (680-128342-10) [10X] and 1600780-MW-C (680-128342-10)[100X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

DISSOLVED METALS (ICP)
Samples 1600780-MW-12 (680-128342-3) and 1600780-MW-C (680-128342-10) were analyzed for dissolved metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 08/19/2016 and analyzed on 08/22/2016.

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

METALS (ICP)
Samples 1600780-MW-26 (680-128342-2), 1600780-MW-12 (680-128342-3), 1600780-MW-1 (680-128342-4), 1600780-MW-18 (680-128342-5), 1600780-DUP-1 (680-128342-6), 1600780-MW-23 (680-128342-8), 1600780-MW-25 (680-128342-9) and 1600780-MW-C (680-128342-10) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 08/08/2016 and analyzed on 08/09/2016, 08/17/2016 and 08/18/2016.

Calcium and Sodium recovered low for the MS/MSD of sample 1600780-MW-18 (680-128342-5) in batch 680-444929. Iron recovered high.

Samples 1600780-MW-12 (680-128342-3)[10X], 1600780-MW-1 (680-128342-4)[10X], 1600780-MW-23 (680-128342-8)[10X], 1600780-MW-25 (680-128342-9)[10X] and 1600780-MW-C (680-128342-10)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

DISSOLVED MERCURY (CVAA)
Samples 1600780-MW-12 (680-128342-3) and 1600780-MW-C (680-128342-10) were analyzed for dissolved mercury (CVAA) in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 08/19/2016 and analyzed on 08/22/2016.

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

TOTAL MERCURY
Samples 1600780-MW-26 (680-128342-2), 1600780-MW-12 (680-128342-3), 1600780-MW-1 (680-128342-4), 1600780-MW-18 (680-128342-5), 1600780-DUP-1 (680-128342-6), 1600780-MW-23 (680-128342-8), 1600780-MW-25 (680-128342-9) and 1600780-MW-C (680-128342-10) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 08/09/2016 and analyzed on 08/10/2016.

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

Job ID: 680-128342-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

ALKALINITY
Samples 1600780-MW-26 (680-128342-2), 1600780-MW-12 (680-128342-3), 1600780-MW-1 (680-128342-4), 1600780-MW-18 (680-128342-5), 1600780-DUP-1 (680-128342-6), 1600780-MW-23 (680-128342-8), 1600780-MW-25 (680-128342-9), 1600780-MW-C (680-128342-10) and 1600780-GSP-10 (680-128342-11) were analyzed for alkalinity in accordance with SM 2320B. The samples were analyzed on 08/09/2016 and 08/15/2016.

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

TOTAL DISSOLVED SOLIDS
Samples 1600780-MW-26 (680-128342-2), 1600780-MW-12 (680-128342-3), 1600780-MW-1 (680-128342-4), 1600780-MW-18 (680-128342-5), 1600780-DUP-1 (680-128342-6), 1600780-MW-23 (680-128342-8), 1600780-MW-25 (680-128342-9), 1600780-MW-C (680-128342-10) and 1600780-GSP-10 (680-128342-11) were analyzed for total dissolved solids in accordance with SM 2540C. The samples were analyzed on 08/09/2016.

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

ANIONS BY ION CHROMATOGRAPHY (28 DAY)
Samples 1600780-MW-26 (680-128342-2), 1600780-MW-12 (680-128342-3), 1600780-MW-1 (680-128342-4), 1600780-MW-18 (680-128342-5), 1600780-DUP-1 (680-128342-6), 1600780-MW-23 (680-128342-8), 1600780-MW-25 (680-128342-9) and 1600780-MW-C (680-128342-10) were analyzed for Anions by Ion Chromatography (28 Day) in accordance with EPA Method 300.0. The samples were analyzed on 08/15/2016 and 08/16/2016.

Samples 1600780-MW-26 (680-128342-2)[4X], 1600780-MW-12 (680-128342-3)[10X], 1600780-MW-1 (680-128342-4)[25X], 1600780-MW-18 (680-128342-5)[10X], 1600780-DUP-1 (680-128342-6)[25X], 1600780-DUP-1 (680-128342-6)[5X], 1600780-MW-23 (680-128342-8)[10X], 1600780-MW-25 (680-128342-9)[10X], 1600780-MW-25 (680-128342-9)[5X] and 1600780-MW-C (680-128342-10) [50X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

ANIONS BY ION CHROMATOGRAPHY (48 HOUR)
Samples 1600780-MW-26 (680-128342-2), 1600780-MW-12 (680-128342-3), 1600780-MW-1 (680-128342-4), 1600780-MW-18 (680-128342-5), 1600780-DUP-1 (680-128342-6), 1600780-MW-23 (680-128342-8), 1600780-MW-25 (680-128342-9) and 1600780-MW-C (680-128342-10) were analyzed for Anions by Ion Chromatography (48 Hour) in accordance with EPA Method 300.0. The samples were analyzed on 08/05/2016.

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

AMMONIA
Samples 1600780-MW-26 (680-128342-2), 1600780-MW-12 (680-128342-3), 1600780-MW-1 (680-128342-4), 1600780-MW-18 (680-128342-5), 1600780-DUP-1 (680-128342-6), 1600780-MW-23 (680-128342-8), 1600780-MW-25 (680-128342-9), 1600780-MW-C (680-128342-10) and 1600780-GSP-10 (680-128342-11) were analyzed for ammonia in accordance with EPA Method 350.1. The samples were analyzed on 08/16/2016.

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

TOTAL PHOSPHORUS
Samples 1600780-MW-26 (680-128342-2), 1600780-MW-12 (680-128342-3), 1600780-MW-1 (680-128342-4), 1600780-MW-18 (680-128342-5), 1600780-DUP-1 (680-128342-6), 1600780-MW-23 (680-128342-8), 1600780-MW-25 (680-128342-9), 1600780-MW-C (680-128342-10) and 1600780-GSP-10 (680-128342-11) were analyzed for total phosphorus in accordance with EPA Method 365.4. The samples were prepared on 08/16/2016 and analyzed on 08/17/2016.

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

SULFIDE

Job ID: 680-128342-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

Samples 1600780-MW-26 (680-128342-2), 1600780-MW-12 (680-128342-3), 1600780-MW-1 (680-128342-4), 1600780-MW-18 (680-128342-5), 1600780-DUP-1 (680-128342-6), 1600780-MW-23 (680-128342-8), 1600780-MW-25 (680-128342-9), 1600780-MW-C (680-128342-10) and 1600780-GSP-10 (680-128342-11) were analyzed for sulfide in accordance with EPA Method 376.1. The samples were analyzed on 08/11/2016.

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

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128342-1

Client Sample ID: Trip Blank

Lab Sample ID: 680-128342-1

Date Collected: 08/04/16 00:00
Date Received: 08/05/16 08:59

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	7.0	ug/L			08/12/16 17:05	1
Benzene	1.0	U	1.0	0.43	ug/L			08/12/16 17:05	1
Bromobenzene	1.0	U	1.0	0.50	ug/L			08/12/16 17:05	1
Bromochloromethane	1.0	U	1.0	0.45	ug/L			08/12/16 17:05	1
Bromodichloromethane	1.0	U	1.0	0.44	ug/L			08/12/16 17:05	1
Bromoform	1.0	U	1.0	0.43	ug/L			08/12/16 17:05	1
Bromomethane	5.0	U	5.0	2.5	ug/L			08/12/16 17:05	1
2-Butanone (MEK)	10	U	10	3.4	ug/L			08/12/16 17:05	1
Carbon disulfide	2.0	U	2.0	1.0	ug/L			08/12/16 17:05	1
Carbon tetrachloride	1.0	U	1.0	0.33	ug/L			08/12/16 17:05	1
Chlorobenzene	1.0	U	1.0	0.26	ug/L			08/12/16 17:05	1
Chloroethane	5.0	U	5.0	2.5	ug/L			08/12/16 17:05	1
Chloroform	1.0	U	1.0	0.50	ug/L			08/12/16 17:05	1
Chloromethane	1.0	U	1.0	0.40	ug/L			08/12/16 17:05	1
2-Chlorotoluene	1.0	U	1.0	0.27	ug/L			08/12/16 17:05	1
4-Chlorotoluene	1.0	U	1.0	0.45	ug/L			08/12/16 17:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.41	ug/L			08/12/16 17:05	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.40	ug/L			08/12/16 17:05	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			08/12/16 17:05	1
Dibromomethane	1.0	U	1.0	0.35	ug/L			08/12/16 17:05	1
Dichlorodifluoromethane	1.0	U	1.0	0.60	ug/L			08/12/16 17:05	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			08/12/16 17:05	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			08/12/16 17:05	1
1,1-Dichloroethene	1.0	U	1.0	0.36	ug/L			08/12/16 17:05	1
1,2-Dichloroethene, Total	2.0	U	2.0	0.37	ug/L			08/12/16 17:05	1
1,2-Dichloropropane	1.0	U	1.0	0.67	ug/L			08/12/16 17:05	1
1,3-Dichloropropane	1.0	U	1.0	0.34	ug/L			08/12/16 17:05	1
2,2-Dichloropropane	1.0	U	1.0	0.37	ug/L			08/12/16 17:05	1
1,1-Dichloropropene	1.0	U	1.0	0.34	ug/L			08/12/16 17:05	1
Ethylbenzene	1.0	U	1.0	0.33	ug/L			08/12/16 17:05	1
2-Hexanone	10	U	10	2.0	ug/L			08/12/16 17:05	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			08/12/16 17:05	1
Methylene Chloride	5.0	U	5.0	2.5	ug/L			08/12/16 17:05	1
4-Methyl-2-pentanone	10	U	10	2.1	ug/L			08/12/16 17:05	1
Methyl tert-butyl ether	10	U	10	0.30	ug/L			08/12/16 17:05	1
m-Xylene & p-Xylene	1.0	U	1.0	0.35	ug/L			08/12/16 17:05	1
n-Butylbenzene	1.0	U	1.0	0.47	ug/L			08/12/16 17:05	1
N-Propylbenzene	1.0	U	1.0	0.38	ug/L			08/12/16 17:05	1
o-Xylene	1.0	U	1.0	0.23	ug/L			08/12/16 17:05	1
p-Isopropyltoluene	1.0	U	1.0	0.48	ug/L			08/12/16 17:05	1
sec-Butylbenzene	1.0	U	1.0	0.42	ug/L			08/12/16 17:05	1
Styrene	1.0	U	1.0	0.27	ug/L			08/12/16 17:05	1
tert-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/12/16 17:05	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/12/16 17:05	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.62	ug/L			08/12/16 17:05	1
Tetrachloroethene	1.0	U	1.0	0.74	ug/L			08/12/16 17:05	1
Toluene	1.0	U	1.0	0.48	ug/L			08/12/16 17:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.37	ug/L			08/12/16 17:05	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.42	ug/L			08/12/16 17:05	1

Client Sample ID: Trip Blank

Lab Sample ID: 680-128342-1
Date Collected: 08/04/16 00:00
Matrix: Water
Date Received: 08/05/16 08:59

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	5.0	U	5.0	2.5	ug/L			08/12/16 17:05	1
1,1,1-Trichloroethane	1.0	U	1.0	0.37	ug/L			08/12/16 17:05	1
1,1,2-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/12/16 17:05	1
Trichloroethene	1.0	U	1.0	0.48	ug/L			08/12/16 17:05	1
Trichlorofluoromethane	1.0	U	1.0	0.42	ug/L			08/12/16 17:05	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.47	ug/L			08/12/16 17:05	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.31	ug/L			08/12/16 17:05	1
Vinyl acetate	2.0	U	2.0	0.81	ug/L			08/12/16 17:05	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			08/12/16 17:05	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			08/12/16 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*08/12/16 17:05*	*1*
Dibromofluoromethane (Surr)	*92*		*80 - 122*		*08/12/16 17:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*73 - 131*		*08/12/16 17:05*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/12/16 17:05*	*1*

Client Sample ID: 1600780-MW-26

Lab Sample ID: 680-128342-2
Date Collected: 08/04/16 09:45
Matrix: Water
Date Received: 08/05/16 08:59

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	7.0	ug/L			08/12/16 17:50	1
Benzene	**0.51**	**J**	1.0	0.43	ug/L			08/12/16 17:50	1
Bromobenzene	1.0	U	1.0	0.50	ug/L			08/12/16 17:50	1
Bromochloromethane	1.0	U	1.0	0.45	ug/L			08/12/16 17:50	1
Bromodichloromethane	1.0	U	1.0	0.44	ug/L			08/12/16 17:50	1
Bromoform	1.0	U	1.0	0.43	ug/L			08/12/16 17:50	1
Bromomethane	5.0	U	5.0	2.5	ug/L			08/12/16 17:50	1
2-Butanone (MEK)	10	U	10	3.4	ug/L			08/12/16 17:50	1
Carbon disulfide	2.0	U	2.0	1.0	ug/L			08/12/16 17:50	1
Carbon tetrachloride	1.0	U	1.0	0.33	ug/L			08/12/16 17:50	1
Chlorobenzene	1.0	U	1.0	0.26	ug/L			08/12/16 17:50	1
Chloroethane	5.0	U	5.0	2.5	ug/L			08/12/16 17:50	1
Chloroform	1.0	U	1.0	0.50	ug/L			08/12/16 17:50	1
Chloromethane	1.0	U	1.0	0.40	ug/L			08/12/16 17:50	1
2-Chlorotoluene	1.0	U	1.0	0.27	ug/L			08/12/16 17:50	1
4-Chlorotoluene	1.0	U	1.0	0.45	ug/L			08/12/16 17:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.41	ug/L			08/12/16 17:50	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.40	ug/L			08/12/16 17:50	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			08/12/16 17:50	1
Dibromomethane	1.0	U	1.0	0.35	ug/L			08/12/16 17:50	1
Dichlorodifluoromethane	1.0	U	1.0	0.60	ug/L			08/12/16 17:50	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			08/12/16 17:50	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			08/12/16 17:50	1
1,1-Dichloroethene	1.0	U	1.0	0.36	ug/L			08/12/16 17:50	1
1,2-Dichloroethene, Total	2.0	U	2.0	0.37	ug/L			08/12/16 17:50	1
1,2-Dichloropropane	1.0	U	1.0	0.67	ug/L			08/12/16 17:50	1
1,3-Dichloropropane	1.0	U	1.0	0.34	ug/L			08/12/16 17:50	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128342-1

Client Sample ID: 1600780-MW-26

Date Collected: 08/04/16 09:45
Date Received: 08/05/16 08:59

Lab Sample ID: 680-128342-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	1.0	U	1.0	0.37	ug/L			08/12/16 17:50	1
1,1-Dichloropropene	1.0	U	1.0	0.34	ug/L			08/12/16 17:50	1
Ethylbenzene	1.0	U	1.0	0.33	ug/L			08/12/16 17:50	1
2-Hexanone	10	U	10	2.0	ug/L			08/12/16 17:50	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			08/12/16 17:50	1
Methylene Chloride	5.0	U	5.0	2.5	ug/L			08/12/16 17:50	1
4-Methyl-2-pentanone	10	U	10	2.1	ug/L			08/12/16 17:50	1
Methyl tert-butyl ether	**8.4**	**J**	10	0.30	ug/L			08/12/16 17:50	1
m-Xylene & p-Xylene	1.0	U	1.0	0.35	ug/L			08/12/16 17:50	1
n-Butylbenzene	1.0	U	1.0	0.47	ug/L			08/12/16 17:50	1
N-Propylbenzene	1.0	U	1.0	0.38	ug/L			08/12/16 17:50	1
o-Xylene	1.0	U	1.0	0.23	ug/L			08/12/16 17:50	1
p-Isopropyltoluene	1.0	U	1.0	0.48	ug/L			08/12/16 17:50	1
sec-Butylbenzene	1.0	U	1.0	0.42	ug/L			08/12/16 17:50	1
Styrene	1.0	U	1.0	0.27	ug/L			08/12/16 17:50	1
tert-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/12/16 17:50	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/12/16 17:50	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.62	ug/L			08/12/16 17:50	1
Tetrachloroethene	1.0	U	1.0	0.74	ug/L			08/12/16 17:50	1
Toluene	1.0	U	1.0	0.48	ug/L			08/12/16 17:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.37	ug/L			08/12/16 17:50	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.42	ug/L			08/12/16 17:50	1
1,2,3-Trichlorobenzene	5.0	U	5.0	2.5	ug/L			08/12/16 17:50	1
1,1,1-Trichloroethane	1.0	U	1.0	0.37	ug/L			08/12/16 17:50	1
1,1,2-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/12/16 17:50	1
Trichloroethene	1.0	U	1.0	0.48	ug/L			08/12/16 17:50	1
Trichlorofluoromethane	1.0	U	1.0	0.42	ug/L			08/12/16 17:50	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.47	ug/L			08/12/16 17:50	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.31	ug/L			08/12/16 17:50	1
Vinyl acetate	2.0	U	2.0	0.81	ug/L			08/12/16 17:50	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			08/12/16 17:50	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			08/12/16 17:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*08/12/16 17:50*	*1*
Dibromofluoromethane (Surr)	*93*		*80 - 122*		*08/12/16 17:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*73 - 131*		*08/12/16 17:50*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/12/16 17:50*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.095	ug/L		08/08/16 15:47	08/09/16 18:52	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L		08/08/16 15:47	08/09/16 18:52	1
Acetophenone	0.95	U	0.95	0.29	ug/L		08/08/16 15:47	08/09/16 18:52	1
Anthracene	0.19	U	0.19	0.095	ug/L		08/08/16 15:47	08/09/16 18:52	1
Atrazine	3.8	U	3.8	1.9	ug/L		08/08/16 15:47	08/09/16 18:52	1
Benzaldehyde	0.95	U	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 18:52	1
Benzo[a]anthracene	0.19	U	0.19	0.095	ug/L		08/08/16 15:47	08/09/16 18:52	1
Benzo[a]pyrene	0.19	U	0.19	0.095	ug/L		08/08/16 15:47	08/09/16 18:52	1
Benzo[b]fluoranthene	0.19	U	0.19	0.095	ug/L		08/08/16 15:47	08/09/16 18:52	1

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128342-1

Client Sample ID: 1600780-MW-26
Date Collected: 08/04/16 09:45
Date Received: 08/05/16 08:59

Lab Sample ID: 680-128342-2
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	0.19	U	0.19	0.095	ug/L		08/08/16 15:47	08/09/16 18:52	1
Benzo[k]fluoranthene	0.19	U	0.19	0.095	ug/L		08/08/16 15:47	08/09/16 18:52	1
1,1'-Biphenyl	0.95	U	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 18:52	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 18:52	1
Bis(2-chloroethyl)ether	0.95	U	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 18:52	1
Bis(2-ethylhexyl) phthalate	4.8	U	4.8	1.9	ug/L		08/08/16 15:47	08/09/16 18:52	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L		08/08/16 15:47	08/09/16 18:52	1
Butyl benzyl phthalate	0.95	U	0.95	0.11	ug/L		08/08/16 15:47	08/09/16 18:52	1
Caprolactam	0.95	U	0.95	0.12	ug/L		08/08/16 15:47	08/09/16 18:52	1
Carbazole	1.9	U	1.9	0.095	ug/L		08/08/16 15:47	08/09/16 18:52	1
4-Chloroaniline	3.8	U	3.8	1.9	ug/L		08/08/16 15:47	08/09/16 18:52	1
4-Chloro-3-methylphenol	0.95	U	0.95	0.11	ug/L		08/08/16 15:47	08/09/16 18:52	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 18:52	1
2-Chlorophenol	0.95	U	0.95	0.11	ug/L		08/08/16 15:47	08/09/16 18:52	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 18:52	1
Chrysene	0.19	U	0.19	0.043	ug/L		08/08/16 15:47	08/09/16 18:52	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.095	ug/L		08/08/16 15:47	08/09/16 18:52	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 18:52	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		08/08/16 15:47	08/09/16 18:52	1
2,4-Dichlorophenol	0.95	U	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 18:52	1
Diethyl phthalate	0.95	U	0.95	0.10	ug/L		08/08/16 15:47	08/09/16 18:52	1
2,4-Dimethylphenol	1.9	U	1.9	0.66	ug/L		08/08/16 15:47	08/09/16 18:52	1
Dimethyl phthalate	0.95	U	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 18:52	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		08/08/16 15:47	08/09/16 18:52	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.95	ug/L		08/08/16 15:47	08/09/16 18:52	1
2,4-Dinitrophenol	9.5	U	9.5	1.0	ug/L		08/08/16 15:47	08/09/16 18:52	1
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		08/08/16 15:47	08/09/16 18:52	1
2,6-Dinitrotoluene	0.95	U	0.95	0.12	ug/L		08/08/16 15:47	08/09/16 18:52	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		08/08/16 15:47	08/09/16 18:52	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		08/08/16 15:47	08/09/16 18:52	1
Fluorene	0.19	U	0.19	0.095	ug/L		08/08/16 15:47	08/09/16 18:52	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 18:52	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 18:52	1
Hexachlorocyclopentadiene	1.9	U *	1.9	0.48	ug/L		08/08/16 15:47	08/09/16 18:52	1
Hexachloroethane	0.95	U	0.95	0.48	ug/L		08/08/16 15:47	08/09/16 18:52	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095	ug/L		08/08/16 15:47	08/09/16 18:52	1
Isophorone	0.95	U	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 18:52	1
2-Methylnaphthalene	0.19	U	0.19	0.095	ug/L		08/08/16 15:47	08/09/16 18:52	1
2-Methylphenol	1.9	U	1.9	0.70	ug/L		08/08/16 15:47	08/09/16 18:52	1
3 & 4 Methylphenol	1.9	U	1.9	0.63	ug/L		08/08/16 15:47	08/09/16 18:52	1
Naphthalene	0.19	U	0.19	0.095	ug/L		08/08/16 15:47	08/09/16 18:52	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		08/08/16 15:47	08/09/16 18:52	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		08/08/16 15:47	08/09/16 18:52	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		08/08/16 15:47	08/09/16 18:52	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 18:52	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 18:52	1
4-Nitrophenol	7.6	U	7.6	3.8	ug/L		08/08/16 15:47	08/09/16 18:52	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		08/08/16 15:47	08/09/16 18:52	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		08/08/16 15:47	08/09/16 18:52	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128342-1

Client Sample ID: 1600780-MW-26

Date Collected: 08/04/16 09:45
Date Received: 08/05/16 08:59

Lab Sample ID: 680-128342-2

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 18:52	1
Pentachlorophenol	4.8	U	4.8	0.38	ug/L		08/08/16 15:47	08/09/16 18:52	1
Phenanthrene	0.19	U	0.19	0.095	ug/L		08/08/16 15:47	08/09/16 18:52	1
Phenol	0.95	U	0.95	0.12	ug/L		08/08/16 15:47	08/09/16 18:52	1
Pyrene	0.19	U	0.19	0.095	ug/L		08/08/16 15:47	08/09/16 18:52	1
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		08/08/16 15:47	08/09/16 18:52	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		08/08/16 15:47	08/09/16 18:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*64*		*31 - 107*	*08/08/16 15:47*	*08/09/16 18:52*	*1*
2-Fluorophenol	*67*		*18 - 112*	*08/08/16 15:47*	*08/09/16 18:52*	*1*
Nitrobenzene-d5 (Surr)	*74*		*37 - 103*	*08/08/16 15:47*	*08/09/16 18:52*	*1*
Phenol-d5 (Surr)	*66*		*20 - 113*	*08/08/16 15:47*	*08/09/16 18:52*	*1*
Terphenyl-d14 (Surr)	*71*		*22 - 121*	*08/08/16 15:47*	*08/09/16 18:52*	*1*
2,4,6-Tribromophenol (Surr)	*74*		*39 - 133*	*08/08/16 15:47*	*08/09/16 18:52*	*1*

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.028**	**J**	0.050	0.023	mg/L			08/05/16 21:48	1
Sulfate	**110**		4.0	1.6	mg/L			08/16/16 12:16	4
Chloride	**45**		0.50	0.20	mg/L			08/15/16 12:34	1
Bromide	**0.39**	**J**	0.50	0.20	mg/L			08/15/16 12:34	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	20	U	20	5.3	ug/L		08/08/16 10:53	08/09/16 02:03	1
Arsenic	20	U	20	6.2	ug/L		08/08/16 10:53	08/09/16 02:03	1
Beryllium	4.0	U	4.0	0.10	ug/L		08/08/16 10:53	08/09/16 02:03	1
Cadmium	5.0	U	5.0	1.0	ug/L		08/08/16 10:53	08/09/16 02:03	1
Calcium	**170000**		500	25	ug/L		08/08/16 10:53	08/09/16 02:03	1
Chromium	10	U	10	1.6	ug/L		08/08/16 10:53	08/09/16 02:03	1
Copper	20	U	20	1.8	ug/L		08/08/16 10:53	08/09/16 02:03	1
Iron	**180**		50	17	ug/L		08/08/16 10:53	08/09/16 02:03	1
Lead	10	U	10	3.9	ug/L		08/08/16 10:53	08/09/16 02:03	1
Magnesium	**20000**		500	33	ug/L		08/08/16 10:53	08/09/16 02:03	1
Manganese	**91**		10	1.0	ug/L		08/08/16 10:53	08/09/16 02:03	1
Nickel	**7.4**	**J**	40	2.1	ug/L		08/08/16 10:53	08/09/16 02:03	1
Potassium	**930**	**J**	1000	17	ug/L		08/08/16 10:53	08/09/16 02:03	1
Selenium	20	U	20	9.9	ug/L		08/08/16 10:53	08/09/16 02:03	1
Silver	10	U	10	0.60	ug/L		08/08/16 10:53	08/09/16 02:03	1
Sodium	**58000**		1000	480	ug/L		08/08/16 10:53	08/09/16 02:03	1
Thallium	25	U	25	6.0	ug/L		08/08/16 10:53	08/09/16 02:03	1
Zinc	**12**	**J**	20	7.0	ug/L		08/08/16 10:53	08/09/16 02:03	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.080	ug/L		08/09/16 12:28	08/10/16 15:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**440**		5.0	5.0	mg/L			08/09/16 19:11	1

Client Sample ID: 1600780-MW-26

Lab Sample ID: 680-128342-2
Date Collected: 08/04/16 09:45
Matrix: Water
Date Received: 08/05/16 08:59

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	**440**		5.0	5.0	mg/L			08/09/16 19:11	1
Ammonia	0.25	U	0.25	0.10	mg/L			08/16/16 10:21	1
Phosphorus	**0.041**	**J**	0.10	0.041	mg/L		08/16/16 09:19	08/17/16 10:34	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**700**		10	10	mg/L			08/09/16 11:54	1
Sulfide	1.0	U	1.0	1.0	mg/L			08/11/16 07:50	1

Client Sample ID: 1600780-MW-12

Lab Sample ID: 680-128342-3
Date Collected: 08/04/16 09:27
Matrix: Water
Date Received: 08/05/16 08:59

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**100**		100	70	ug/L			08/12/16 18:12	10
Bromobenzene	10	U	10	5.0	ug/L			08/12/16 18:12	10
Bromochloromethane	10	U	10	4.5	ug/L			08/12/16 18:12	10
Bromodichloromethane	10	U	10	4.4	ug/L			08/12/16 18:12	10
Bromoform	10	U	10	4.3	ug/L			08/12/16 18:12	10
Bromomethane	50	U	50	25	ug/L			08/12/16 18:12	10
2-Butanone (MEK)	**92**	**J**	100	34	ug/L			08/12/16 18:12	10
Carbon disulfide	20	U	20	10	ug/L			08/12/16 18:12	10
Carbon tetrachloride	10	U	10	3.3	ug/L			08/12/16 18:12	10
Chlorobenzene	10	U	10	2.6	ug/L			08/12/16 18:12	10
Chloroethane	50	U	50	25	ug/L			08/12/16 18:12	10
Chloroform	10	U	10	5.0	ug/L			08/12/16 18:12	10
Chloromethane	10	U	10	4.0	ug/L			08/12/16 18:12	10
2-Chlorotoluene	10	U	10	2.7	ug/L			08/12/16 18:12	10
4-Chlorotoluene	10	U	10	4.5	ug/L			08/12/16 18:12	10
cis-1,2-Dichloroethene	10	U	10	4.1	ug/L			08/12/16 18:12	10
cis-1,3-Dichloropropene	10	U	10	4.0	ug/L			08/12/16 18:12	10
Dibromochloromethane	10	U	10	3.2	ug/L			08/12/16 18:12	10
Dibromomethane	10	U	10	3.5	ug/L			08/12/16 18:12	10
Dichlorodifluoromethane	10	U	10	6.0	ug/L			08/12/16 18:12	10
1,1-Dichloroethane	10	U	10	3.8	ug/L			08/12/16 18:12	10
1,2-Dichloroethane	10	U	10	5.0	ug/L			08/12/16 18:12	10
1,1-Dichloroethene	10	U	10	3.6	ug/L			08/12/16 18:12	10
1,2-Dichloroethene, Total	20	U	20	3.7	ug/L			08/12/16 18:12	10
1,2-Dichloropropane	10	U	10	6.7	ug/L			08/12/16 18:12	10
1,3-Dichloropropane	10	U	10	3.4	ug/L			08/12/16 18:12	10
2,2-Dichloropropane	10	U	10	3.7	ug/L			08/12/16 18:12	10
1,1-Dichloropropene	10	U	10	3.4	ug/L			08/12/16 18:12	10
Ethylbenzene	**2300**		20	6.6	ug/L			08/13/16 14:18	20
2-Hexanone	100	U	100	20	ug/L			08/12/16 18:12	10
Isopropylbenzene	**88**		10	3.5	ug/L			08/12/16 18:12	10
Methylene Chloride	50	U	50	25	ug/L			08/12/16 18:12	10
4-Methyl-2-pentanone	100	U	100	21	ug/L			08/12/16 18:12	10
Methyl tert-butyl ether	**27**	**J**	100	3.0	ug/L			08/12/16 18:12	10
n-Butylbenzene	10	U	10	4.7	ug/L			08/12/16 18:12	10
N-Propylbenzene	**230**		10	3.8	ug/L			08/12/16 18:12	10

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128342-1

Client Sample ID: 1600780-MW-12

Date Collected: 08/04/16 09:27
Date Received: 08/05/16 08:59

Lab Sample ID: 680-128342-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	**1900**		10	2.3	ug/L			08/12/16 18:12	10
p-Isopropyltoluene	10	U	10	4.8	ug/L			08/12/16 18:12	10
sec-Butylbenzene	10	U	10	4.2	ug/L			08/12/16 18:12	10
Styrene	10	U	10	2.7	ug/L			08/12/16 18:12	10
tert-Butylbenzene	10	U	10	4.5	ug/L			08/12/16 18:12	10
1,1,1,2-Tetrachloroethane	10	U	10	3.7	ug/L			08/12/16 18:12	10
1,1,2,2-Tetrachloroethane	10	U	10	6.2	ug/L			08/12/16 18:12	10
Tetrachloroethene	10	U	10	7.4	ug/L			08/12/16 18:12	10
trans-1,2-Dichloroethene	10	U	10	3.7	ug/L			08/12/16 18:12	10
trans-1,3-Dichloropropene	10	U	10	4.2	ug/L			08/12/16 18:12	10
1,2,3-Trichlorobenzene	50	U	50	25	ug/L			08/12/16 18:12	10
1,1,1-Trichloroethane	10	U	10	3.7	ug/L			08/12/16 18:12	10
1,1,2-Trichloroethane	10	U	10	3.3	ug/L			08/12/16 18:12	10
Trichloroethene	10	U	10	4.8	ug/L			08/12/16 18:12	10
Trichlorofluoromethane	10	U	10	4.2	ug/L			08/12/16 18:12	10
1,2,4-Trimethylbenzene	**920**		10	4.7	ug/L			08/12/16 18:12	10
1,3,5-Trimethylbenzene	**170**		10	3.1	ug/L			08/12/16 18:12	10
Vinyl acetate	20	U	20	8.1	ug/L			08/12/16 18:12	10
Vinyl chloride	10	U	10	5.0	ug/L			08/12/16 18:12	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*08/12/16 18:12*	*10*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*08/13/16 14:18*	*20*
Dibromofluoromethane (Surr)	*102*		*80 - 122*		*08/12/16 18:12*	*10*
Dibromofluoromethane (Surr)	*99*		*80 - 122*		*08/13/16 14:18*	*20*
1,2-Dichloroethane-d4 (Surr)	*104*		*73 - 131*		*08/12/16 18:12*	*10*
1,2-Dichloroethane-d4 (Surr)	*104*		*73 - 131*		*08/13/16 14:18*	*20*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/12/16 18:12*	*10*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/13/16 14:18*	*20*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**11000**		100	43	ug/L			08/18/16 10:30	100
m-Xylene & p-Xylene	**4100**		100	35	ug/L			08/18/16 10:30	100
Toluene	**15000**		100	48	ug/L			08/18/16 10:30	100
Xylenes, Total	**6100**		100	23	ug/L			08/18/16 10:30	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*08/18/16 10:30*	*100*
Dibromofluoromethane (Surr)	*102*		*80 - 122*		*08/18/16 10:30*	*100*
1,2-Dichloroethane-d4 (Surr)	*107*		*73 - 131*		*08/18/16 10:30*	*100*
Toluene-d8 (Surr)	*116*		*80 - 120*		*08/18/16 10:30*	*100*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1.9	U	1.9	0.95	ug/L		08/08/16 15:47	08/10/16 18:04	10
Acenaphthylene	1.9	U	1.9	0.95	ug/L		08/08/16 15:47	08/10/16 18:04	10
Acetophenone	9.5	U	9.5	2.9	ug/L		08/08/16 15:47	08/10/16 18:04	10
Anthracene	1.9	U	1.9	0.95	ug/L		08/08/16 15:47	08/10/16 18:04	10
Atrazine	38	U	38	19	ug/L		08/08/16 15:47	08/10/16 18:04	10

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128342-1

Client Sample ID: 1600780-MW-12

Date Collected: 08/04/16 09:27
Date Received: 08/05/16 08:59

Lab Sample ID: 680-128342-3

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	9.5	U	9.5	0.95	ug/L		08/08/16 15:47	08/10/16 18:04	10
Benzo[a]anthracene	1.9	U	1.9	0.95	ug/L		08/08/16 15:47	08/10/16 18:04	10
Benzo[a]pyrene	1.9	U	1.9	0.95	ug/L		08/08/16 15:47	08/10/16 18:04	10
Benzo[b]fluoranthene	1.9	U	1.9	0.95	ug/L		08/08/16 15:47	08/10/16 18:04	10
Benzo[g,h,i]perylene	1.9	U	1.9	0.95	ug/L		08/08/16 15:47	08/10/16 18:04	10
Benzo[k]fluoranthene	1.9	U	1.9	0.95	ug/L		08/08/16 15:47	08/10/16 18:04	10
1,1'-Biphenyl	9.5	U	9.5	0.95	ug/L		08/08/16 15:47	08/10/16 18:04	10
Bis(2-chloroethoxy)methane	9.5	U	9.5	0.95	ug/L		08/08/16 15:47	08/10/16 18:04	10
Bis(2-chloroethyl)ether	**29**		9.5	0.95	ug/L		08/08/16 15:47	08/10/16 18:04	10
Bis(2-ethylhexyl) phthalate	48	U	48	19	ug/L		08/08/16 15:47	08/10/16 18:04	10
4-Bromophenyl phenyl ether	9.5	U	9.5	1.1	ug/L		08/08/16 15:47	08/10/16 18:04	10
Butyl benzyl phthalate	9.5	U	9.5	1.1	ug/L		08/08/16 15:47	08/10/16 18:04	10
Caprolactam	9.5	U	9.5	1.2	ug/L		08/08/16 15:47	08/10/16 18:04	10
Carbazole	19	U	19	0.95	ug/L		08/08/16 15:47	08/10/16 18:04	10
4-Chloroaniline	38	U	38	19	ug/L		08/08/16 15:47	08/10/16 18:04	10
4-Chloro-3-methylphenol	9.5	U	9.5	1.1	ug/L		08/08/16 15:47	08/10/16 18:04	10
2-Chloronaphthalene	9.5	U	9.5	0.95	ug/L		08/08/16 15:47	08/10/16 18:04	10
2-Chlorophenol	9.5	U	9.5	1.1	ug/L		08/08/16 15:47	08/10/16 18:04	10
4-Chlorophenyl phenyl ether	9.5	U	9.5	0.95	ug/L		08/08/16 15:47	08/10/16 18:04	10
Chrysene	1.9	U	1.9	0.43	ug/L		08/08/16 15:47	08/10/16 18:04	10
Dibenz(a,h)anthracene	1.9	U	1.9	0.95	ug/L		08/08/16 15:47	08/10/16 18:04	10
Dibenzofuran	9.5	U	9.5	0.95	ug/L		08/08/16 15:47	08/10/16 18:04	10
3,3'-Dichlorobenzidine	190	U	190	19	ug/L		08/08/16 15:47	08/10/16 18:04	10
2,4-Dichlorophenol	9.5	U	9.5	0.95	ug/L		08/08/16 15:47	08/10/16 18:04	10
Diethyl phthalate	9.5	U	9.5	1.0	ug/L		08/08/16 15:47	08/10/16 18:04	10
Dimethyl phthalate	9.5	U	9.5	0.95	ug/L		08/08/16 15:47	08/10/16 18:04	10
Di-n-butyl phthalate	9.5	U	9.5	3.7	ug/L		08/08/16 15:47	08/10/16 18:04	10
4,6-Dinitro-2-methylphenol	48	U	48	9.5	ug/L		08/08/16 15:47	08/10/16 18:04	10
2,4-Dinitrophenol	95	U	95	10	ug/L		08/08/16 15:47	08/10/16 18:04	10
2,4-Dinitrotoluene	9.5	U	9.5	1.1	ug/L		08/08/16 15:47	08/10/16 18:04	10
2,6-Dinitrotoluene	9.5	U	9.5	1.2	ug/L		08/08/16 15:47	08/10/16 18:04	10
Di-n-octyl phthalate	9.5	U	9.5	1.6	ug/L		08/08/16 15:47	08/10/16 18:04	10
Fluoranthene	1.9	U	1.9	0.95	ug/L		08/08/16 15:47	08/10/16 18:04	10
Fluorene	1.9	U	1.9	0.95	ug/L		08/08/16 15:47	08/10/16 18:04	10
Hexachlorobenzene	9.5	U	9.5	0.95	ug/L		08/08/16 15:47	08/10/16 18:04	10
Hexachlorobutadiene	9.5	U	9.5	0.95	ug/L		08/08/16 15:47	08/10/16 18:04	10
Hexachlorocyclopentadiene	19	U *	19	4.8	ug/L		08/08/16 15:47	08/10/16 18:04	10
Hexachloroethane	9.5	U	9.5	4.8	ug/L		08/08/16 15:47	08/10/16 18:04	10
Indeno[1,2,3-cd]pyrene	1.9	U	1.9	0.95	ug/L		08/08/16 15:47	08/10/16 18:04	10
Isophorone	9.5	U	9.5	0.95	ug/L		08/08/16 15:47	08/10/16 18:04	10
2-Methylnaphthalene	**54**		1.9	0.95	ug/L		08/08/16 15:47	08/10/16 18:04	10
Naphthalene	**160**		1.9	0.95	ug/L		08/08/16 15:47	08/10/16 18:04	10
2-Nitroaniline	9.5	U	9.5	1.5	ug/L		08/08/16 15:47	08/10/16 18:04	10
3-Nitroaniline	48	U	48	1.5	ug/L		08/08/16 15:47	08/10/16 18:04	10
4-Nitroaniline	48	U	48	4.8	ug/L		08/08/16 15:47	08/10/16 18:04	10
Nitrobenzene	9.5	U	9.5	0.95	ug/L		08/08/16 15:47	08/10/16 18:04	10
2-Nitrophenol	9.5	U	9.5	0.95	ug/L		08/08/16 15:47	08/10/16 18:04	10
4-Nitrophenol	76	U	76	38	ug/L		08/08/16 15:47	08/10/16 18:04	10
N-Nitrosodi-n-propylamine	9.5	U	9.5	1.2	ug/L		08/08/16 15:47	08/10/16 18:04	10

Client Sample ID: 1600780-MW-12

Date Collected: 08/04/16 09:27
Date Received: 08/05/16 08:59

Lab Sample ID: 680-128342-3

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	9.5	U	9.5	3.5	ug/L		08/08/16 15:47	08/10/16 18:04	10
2,2'-oxybis[1-chloropropane]	9.5	U	9.5	0.95	ug/L		08/08/16 15:47	08/10/16 18:04	10
Pentachlorophenol	48	U	48	3.8	ug/L		08/08/16 15:47	08/10/16 18:04	10
Phenanthrene	1.9	U	1.9	0.95	ug/L		08/08/16 15:47	08/10/16 18:04	10
Pyrene	1.9	U	1.9	0.95	ug/L		08/08/16 15:47	08/10/16 18:04	10
2,4,5-Trichlorophenol	9.5	U	9.5	1.1	ug/L		08/08/16 15:47	08/10/16 18:04	10
2,4,6-Trichlorophenol	9.5	U	9.5	1.6	ug/L		08/08/16 15:47	08/10/16 18:04	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*0*	*D*	*31 - 107*	*08/08/16 15:47*	*08/10/16 18:04*	*10*
2-Fluorophenol	*0*	*D*	*18 - 112*	*08/08/16 15:47*	*08/10/16 18:04*	*10*
Nitrobenzene-d5 (Surr)	*0*	*D*	*37 - 103*	*08/08/16 15:47*	*08/10/16 18:04*	*10*
Phenol-d5 (Surr)	*0*	*D*	*20 - 113*	*08/08/16 15:47*	*08/10/16 18:04*	*10*
Terphenyl-d14 (Surr)	*0*	*D*	*22 - 121*	*08/08/16 15:47*	*08/10/16 18:04*	*10*
2,4,6-Tribromophenol (Surr)	*0*	*D*	*39 - 133*	*08/08/16 15:47*	*08/10/16 18:04*	*10*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	**210**		190	66	ug/L		08/08/16 15:47	08/10/16 18:29	100
2-Methylphenol	**300**		190	71	ug/L		08/08/16 15:47	08/10/16 18:29	100
3 & 4 Methylphenol	**800**		190	63	ug/L		08/08/16 15:47	08/10/16 18:29	100
Phenol	**230**		95	12	ug/L		08/08/16 15:47	08/10/16 18:29	100

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1.9	U	1.9	0.95	ug/L		08/08/16 15:47	08/10/16 18:54	10
Acenaphthylene	1.9	U	1.9	0.95	ug/L		08/08/16 15:47	08/10/16 18:54	10
Acetophenone	9.5	U	9.5	2.9	ug/L		08/08/16 15:47	08/10/16 18:54	10
Anthracene	1.9	U	1.9	0.95	ug/L		08/08/16 15:47	08/10/16 18:54	10
Atrazine	38	U	38	19	ug/L		08/08/16 15:47	08/10/16 18:54	10
Benzaldehyde	9.5	U	9.5	0.95	ug/L		08/08/16 15:47	08/10/16 18:54	10
Benzo[a]anthracene	1.9	U	1.9	0.95	ug/L		08/08/16 15:47	08/10/16 18:54	10
Benzo[a]pyrene	1.9	U	1.9	0.95	ug/L		08/08/16 15:47	08/10/16 18:54	10
Benzo[b]fluoranthene	1.9	U	1.9	0.95	ug/L		08/08/16 15:47	08/10/16 18:54	10
Benzo[g,h,i]perylene	1.9	U	1.9	0.95	ug/L		08/08/16 15:47	08/10/16 18:54	10
Benzo[k]fluoranthene	1.9	U	1.9	0.95	ug/L		08/08/16 15:47	08/10/16 18:54	10
1,1'-Biphenyl	9.5	U	9.5	0.95	ug/L		08/08/16 15:47	08/10/16 18:54	10
Bis(2-chloroethoxy)methane	9.5	U	9.5	0.95	ug/L		08/08/16 15:47	08/10/16 18:54	10
Bis(2-chloroethyl)ether	**29**		9.5	0.95	ug/L		08/08/16 15:47	08/10/16 18:54	10
Bis(2-ethylhexyl) phthalate	48	U	48	19	ug/L		08/08/16 15:47	08/10/16 18:54	10
4-Bromophenyl phenyl ether	9.5	U	9.5	1.1	ug/L		08/08/16 15:47	08/10/16 18:54	10
Butyl benzyl phthalate	9.5	U	9.5	1.1	ug/L		08/08/16 15:47	08/10/16 18:54	10
Caprolactam	9.5	U	9.5	1.2	ug/L		08/08/16 15:47	08/10/16 18:54	10
Carbazole	19	U	19	0.95	ug/L		08/08/16 15:47	08/10/16 18:54	10
4-Chloroaniline	38	U	38	19	ug/L		08/08/16 15:47	08/10/16 18:54	10
4-Chloro-3-methylphenol	9.5	U	9.5	1.1	ug/L		08/08/16 15:47	08/10/16 18:54	10
2-Chloronaphthalene	9.5	U	9.5	0.95	ug/L		08/08/16 15:47	08/10/16 18:54	10
2-Chlorophenol	9.5	U	9.5	1.1	ug/L		08/08/16 15:47	08/10/16 18:54	10
4-Chlorophenyl phenyl ether	9.5	U	9.5	0.95	ug/L		08/08/16 15:47	08/10/16 18:54	10
Chrysene	1.9	U	1.9	0.43	ug/L		08/08/16 15:47	08/10/16 18:54	10

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128342-1

Client Sample ID: 1600780-MW-12
Date Collected: 08/04/16 09:27
Date Received: 08/05/16 08:59

Lab Sample ID: 680-128342-3
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	1.9	U	1.9	0.95	ug/L		08/08/16 15:47	08/10/16 18:54	10
Dibenzofuran	9.5	U	9.5	0.95	ug/L		08/08/16 15:47	08/10/16 18:54	10
3,3'-Dichlorobenzidine	190	U	190	19	ug/L		08/08/16 15:47	08/10/16 18:54	10
2,4-Dichlorophenol	9.5	U	9.5	0.95	ug/L		08/08/16 15:47	08/10/16 18:54	10
Diethyl phthalate	9.5	U	9.5	1.0	ug/L		08/08/16 15:47	08/10/16 18:54	10
2,4-Dimethylphenol	**190**		19	6.6	ug/L		08/08/16 15:47	08/10/16 18:54	10
Dimethyl phthalate	9.5	U	9.5	0.95	ug/L		08/08/16 15:47	08/10/16 18:54	10
Di-n-butyl phthalate	9.5	U	9.5	3.7	ug/L		08/08/16 15:47	08/10/16 18:54	10
4,6-Dinitro-2-methylphenol	48	U	48	9.5	ug/L		08/08/16 15:47	08/10/16 18:54	10
2,4-Dinitrophenol	95	U	95	10	ug/L		08/08/16 15:47	08/10/16 18:54	10
2,4-Dinitrotoluene	9.5	U	9.5	1.1	ug/L		08/08/16 15:47	08/10/16 18:54	10
2,6-Dinitrotoluene	9.5	U	9.5	1.2	ug/L		08/08/16 15:47	08/10/16 18:54	10
Di-n-octyl phthalate	9.5	U	9.5	1.6	ug/L		08/08/16 15:47	08/10/16 18:54	10
Fluoranthene	1.9	U	1.9	0.95	ug/L		08/08/16 15:47	08/10/16 18:54	10
Fluorene	1.9	U	1.9	0.95	ug/L		08/08/16 15:47	08/10/16 18:54	10
Hexachlorobenzene	9.5	U	9.5	0.95	ug/L		08/08/16 15:47	08/10/16 18:54	10
Hexachlorobutadiene	9.5	U	9.5	0.95	ug/L		08/08/16 15:47	08/10/16 18:54	10
Hexachlorocyclopentadiene	19	U	19	4.8	ug/L		08/08/16 15:47	08/10/16 18:54	10
Hexachloroethane	9.5	U	9.5	4.8	ug/L		08/08/16 15:47	08/10/16 18:54	10
Indeno[1,2,3-cd]pyrene	1.9	U	1.9	0.95	ug/L		08/08/16 15:47	08/10/16 18:54	10
Isophorone	9.5	U	9.5	0.95	ug/L		08/08/16 15:47	08/10/16 18:54	10
2-Methylnaphthalene	**24**		1.9	0.95	ug/L		08/08/16 15:47	08/10/16 18:54	10
Naphthalene	**110**		1.9	0.95	ug/L		08/08/16 15:47	08/10/16 18:54	10
2-Nitroaniline	9.5	U	9.5	1.5	ug/L		08/08/16 15:47	08/10/16 18:54	10
3-Nitroaniline	48	U	48	1.5	ug/L		08/08/16 15:47	08/10/16 18:54	10
4-Nitroaniline	48	U	48	4.8	ug/L		08/08/16 15:47	08/10/16 18:54	10
Nitrobenzene	9.5	U	9.5	0.95	ug/L		08/08/16 15:47	08/10/16 18:54	10
2-Nitrophenol	9.5	U	9.5	0.95	ug/L		08/08/16 15:47	08/10/16 18:54	10
4-Nitrophenol	76	U	76	38	ug/L		08/08/16 15:47	08/10/16 18:54	10
N-Nitrosodi-n-propylamine	9.5	U	9.5	1.2	ug/L		08/08/16 15:47	08/10/16 18:54	10
N-Nitrosodiphenylamine	9.5	U	9.5	3.5	ug/L		08/08/16 15:47	08/10/16 18:54	10
2,2'-oxybis[1-chloropropane]	9.5	U	9.5	0.95	ug/L		08/08/16 15:47	08/10/16 18:54	10
Pentachlorophenol	48	U	48	3.8	ug/L		08/08/16 15:47	08/10/16 18:54	10
Phenanthrene	1.9	U	1.9	0.95	ug/L		08/08/16 15:47	08/10/16 18:54	10
Pyrene	1.9	U	1.9	0.95	ug/L		08/08/16 15:47	08/10/16 18:54	10
2,4,5-Trichlorophenol	9.5	U	9.5	1.1	ug/L		08/08/16 15:47	08/10/16 18:54	10
2,4,6-Trichlorophenol	9.5	U	9.5	1.6	ug/L		08/08/16 15:47	08/10/16 18:54	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*0*	*D*	*31 - 107*	*08/08/16 15:47*	*08/10/16 18:54*	*10*
2-Fluorophenol	*0*	*D*	*18 - 112*	*08/08/16 15:47*	*08/10/16 18:54*	*10*
Nitrobenzene-d5 (Surr)	*0*	*D*	*37 - 103*	*08/08/16 15:47*	*08/10/16 18:54*	*10*
Phenol-d5 (Surr)	*0*	*D*	*20 - 113*	*08/08/16 15:47*	*08/10/16 18:54*	*10*
Terphenyl-d14 (Surr)	*0*	*D*	*22 - 121*	*08/08/16 15:47*	*08/10/16 18:54*	*10*
2,4,6-Tribromophenol (Surr)	*0*	*D*	*39 - 133*	*08/08/16 15:47*	*08/10/16 18:54*	*10*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - Dissolved - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	**290**		190	70	ug/L		08/08/16 15:47	08/10/16 19:19	100
3 & 4 Methylphenol	**750**		190	63	ug/L		08/08/16 15:47	08/10/16 19:19	100

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128342-1

Client Sample ID: 1600780-MW-12

Date Collected: 08/04/16 09:27
Date Received: 08/05/16 08:59

Lab Sample ID: 680-128342-3

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - Dissolved - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	**220**		95	12	ug/L		08/08/16 15:47	08/10/16 19:19	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*0*	*D*	*31 - 107*	*08/08/16 15:47*	*08/10/16 19:19*	*100*
2-Fluorophenol	*0*	*D*	*18 - 112*	*08/08/16 15:47*	*08/10/16 19:19*	*100*
Nitrobenzene-d5 (Surr)	*0*	*D*	*37 - 103*	*08/08/16 15:47*	*08/10/16 19:19*	*100*
Phenol-d5 (Surr)	*0*	*D*	*20 - 113*	*08/08/16 15:47*	*08/10/16 19:19*	*100*
Terphenyl-d14 (Surr)	*0*	*D*	*22 - 121*	*08/08/16 15:47*	*08/10/16 19:19*	*100*
2,4,6-Tribromophenol (Surr)	*0*	*D*	*39 - 133*	*08/08/16 15:47*	*08/10/16 19:19*	*100*

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.050	U	0.050	0.023	mg/L			08/05/16 22:04	1
Sulfate	**4.5**		1.0	0.40	mg/L			08/15/16 12:51	1
Chloride	**200**		5.0	2.0	mg/L			08/16/16 12:34	10
Bromide	**0.42**	**J**	0.50	0.20	mg/L			08/15/16 12:51	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	20	U	20	5.3	ug/L		08/08/16 10:53	08/09/16 02:08	1
Arsenic	**43**		20	6.2	ug/L		08/08/16 10:53	08/09/16 02:08	1
Beryllium	4.0	U	4.0	0.10	ug/L		08/08/16 10:53	08/09/16 02:08	1
Cadmium	5.0	U	5.0	1.0	ug/L		08/08/16 10:53	08/09/16 02:08	1
Calcium	**310000**		500	25	ug/L		08/08/16 10:53	08/09/16 02:08	1
Chromium	**2.8**	**J**	10	1.6	ug/L		08/08/16 10:53	08/09/16 02:08	1
Copper	**3.0**	**J**	20	1.8	ug/L		08/08/16 10:53	08/09/16 02:08	1
Iron	**46000**		50	17	ug/L		08/08/16 10:53	08/09/16 02:08	1
Lead	10	U	10	3.9	ug/L		08/08/16 10:53	08/09/16 02:08	1
Magnesium	**42000**		500	33	ug/L		08/08/16 10:53	08/09/16 02:08	1
Manganese	**2300**		10	1.0	ug/L		08/08/16 10:53	08/09/16 02:08	1
Nickel	**6.8**	**J**	40	2.1	ug/L		08/08/16 10:53	08/09/16 02:08	1
Potassium	**2700**		1000	17	ug/L		08/08/16 10:53	08/09/16 02:08	1
Selenium	20	U	20	9.9	ug/L		08/08/16 10:53	08/09/16 02:08	1
Silver	10	U	10	0.60	ug/L		08/08/16 10:53	08/09/16 02:08	1
Sodium	**100000**		10000	4800	ug/L		08/08/16 10:53	08/17/16 23:50	10
Thallium	25	U	25	6.0	ug/L		08/08/16 10:53	08/09/16 02:08	1
Zinc	**9.5**	**J**	20	7.0	ug/L		08/08/16 10:53	08/09/16 02:08	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	20	U	20	5.3	ug/L		08/19/16 13:50	08/22/16 19:33	1
Arsenic	**46**		20	6.2	ug/L		08/19/16 13:50	08/22/16 19:33	1
Beryllium	4.0	U	4.0	0.10	ug/L		08/19/16 13:50	08/22/16 19:33	1
Cadmium	5.0	U	5.0	1.0	ug/L		08/19/16 13:50	08/22/16 19:33	1
Calcium	**330000**		500	25	ug/L		08/19/16 13:50	08/22/16 19:33	1
Chromium	**4.0**	**J**	10	1.6	ug/L		08/19/16 13:50	08/22/16 19:33	1
Copper	**2.1**	**J**	20	1.8	ug/L		08/19/16 13:50	08/22/16 19:33	1
Iron	**48000**		50	17	ug/L		08/19/16 13:50	08/22/16 19:33	1
Lead	10	U	10	3.9	ug/L		08/19/16 13:50	08/22/16 19:33	1
Magnesium	**43000**		500	33	ug/L		08/19/16 13:50	08/22/16 19:33	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128342-1

Client Sample ID: 1600780-MW-12

Lab Sample ID: 680-128342-3
Date Collected: 08/04/16 09:27
Matrix: Water
Date Received: 08/05/16 08:59

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2400		10	1.0	ug/L		08/19/16 13:50	08/22/16 19:33	1
Nickel	6.6	J	40	2.1	ug/L		08/19/16 13:50	08/22/16 19:33	1
Potassium	2700		1000	17	ug/L		08/19/16 13:50	08/22/16 19:33	1
Selenium	20	U	20	9.9	ug/L		08/19/16 13:50	08/22/16 19:33	1
Silver	10	U	10	0.60	ug/L		08/19/16 13:50	08/22/16 19:33	1
Sodium	120000		1000	480	ug/L		08/19/16 13:50	08/22/16 19:33	1
Thallium	25	U	25	6.0	ug/L		08/19/16 13:50	08/22/16 19:33	1
Zinc	24		20	7.0	ug/L		08/19/16 13:50	08/22/16 19:33	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.080	ug/L		08/09/16 12:28	08/10/16 15:47	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.080	ug/L		08/19/16 14:20	08/22/16 11:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	800		5.0	5.0	mg/L			08/09/16 19:36	1
Bicarbonate Alkalinity as CaCO3	790		5.0	5.0	mg/L			08/09/16 19:36	1
Ammonia	0.25	U	0.25	0.10	mg/L			08/16/16 10:21	1
Phosphorus	0.22		0.10	0.041	mg/L		08/16/16 09:19	08/17/16 10:44	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		20	20	mg/L			08/09/16 13:37	1
Sulfide	1.0	U	1.0	1.0	mg/L			08/11/16 07:50	1

Client Sample ID: 1600780-MW-1

Lab Sample ID: 680-128342-4
Date Collected: 08/04/16 11:46
Matrix: Water
Date Received: 08/05/16 08:59

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	100	U	100	70	ug/L			08/13/16 14:41	10
Benzene	1300		10	4.3	ug/L			08/13/16 14:41	10
Bromobenzene	10	U	10	5.0	ug/L			08/13/16 14:41	10
Bromochloromethane	10	U	10	4.5	ug/L			08/13/16 14:41	10
Bromodichloromethane	10	U	10	4.4	ug/L			08/13/16 14:41	10
Bromoform	10	U	10	4.3	ug/L			08/13/16 14:41	10
Bromomethane	50	U	50	25	ug/L			08/13/16 14:41	10
2-Butanone (MEK)	100	U	100	34	ug/L			08/13/16 14:41	10
Carbon disulfide	20	U	20	10	ug/L			08/13/16 14:41	10
Carbon tetrachloride	10	U	10	3.3	ug/L			08/13/16 14:41	10
Chlorobenzene	10	U	10	2.6	ug/L			08/13/16 14:41	10
Chloroethane	50	U	50	25	ug/L			08/13/16 14:41	10
Chloroform	10	U	10	5.0	ug/L			08/13/16 14:41	10
Chloromethane	10	U	10	4.0	ug/L			08/13/16 14:41	10
2-Chlorotoluene	10	U	10	2.7	ug/L			08/13/16 14:41	10
4-Chlorotoluene	10	U	10	4.5	ug/L			08/13/16 14:41	10
cis-1,2-Dichloroethene	10	U	10	4.1	ug/L			08/13/16 14:41	10

Client Sample ID: 1600780-MW-1

Lab Sample ID: 680-128342-4

Date Collected: 08/04/16 11:46

Matrix: Water

Date Received: 08/05/16 08:59

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	10	U	10	4.0	ug/L			08/13/16 14:41	10
Dibromochloromethane	10	U	10	3.2	ug/L			08/13/16 14:41	10
Dibromomethane	10	U	10	3.5	ug/L			08/13/16 14:41	10
Dichlorodifluoromethane	10	U	10	6.0	ug/L			08/13/16 14:41	10
1,1-Dichloroethane	10	U	10	3.8	ug/L			08/13/16 14:41	10
1,2-Dichloroethane	10	U	10	5.0	ug/L			08/13/16 14:41	10
1,1-Dichloroethene	10	U	10	3.6	ug/L			08/13/16 14:41	10
1,2-Dichloroethene, Total	20	U	20	3.7	ug/L			08/13/16 14:41	10
1,2-Dichloropropane	10	U	10	6.7	ug/L			08/13/16 14:41	10
1,3-Dichloropropane	10	U	10	3.4	ug/L			08/13/16 14:41	10
2,2-Dichloropropane	10	U	10	3.7	ug/L			08/13/16 14:41	10
1,1-Dichloropropene	10	U	10	3.4	ug/L			08/13/16 14:41	10
Ethylbenzene	**270**		10	3.3	ug/L			08/13/16 14:41	10
2-Hexanone	100	U	100	20	ug/L			08/13/16 14:41	10
Isopropylbenzene	**37**		10	3.5	ug/L			08/13/16 14:41	10
Methylene Chloride	50	U	50	25	ug/L			08/13/16 14:41	10
4-Methyl-2-pentanone	100	U	100	21	ug/L			08/13/16 14:41	10
Methyl tert-butyl ether	100	U	100	3.0	ug/L			08/13/16 14:41	10
m-Xylene & p-Xylene	**320**		10	3.5	ug/L			08/13/16 14:41	10
n-Butylbenzene	10	U	10	4.7	ug/L			08/13/16 14:41	10
N-Propylbenzene	**86**		10	3.8	ug/L			08/13/16 14:41	10
o-Xylene	**120**		10	2.3	ug/L			08/13/16 14:41	10
p-Isopropyltoluene	10	U	10	4.8	ug/L			08/13/16 14:41	10
sec-Butylbenzene	10	U	10	4.2	ug/L			08/13/16 14:41	10
Styrene	10	U	10	2.7	ug/L			08/13/16 14:41	10
tert-Butylbenzene	10	U	10	4.5	ug/L			08/13/16 14:41	10
1,1,1,2-Tetrachloroethane	10	U	10	3.7	ug/L			08/13/16 14:41	10
1,1,2,2-Tetrachloroethane	10	U	10	6.2	ug/L			08/13/16 14:41	10
Tetrachloroethene	10	U	10	7.4	ug/L			08/13/16 14:41	10
Toluene	**110**		10	4.8	ug/L			08/13/16 14:41	10
trans-1,2-Dichloroethene	10	U	10	3.7	ug/L			08/13/16 14:41	10
trans-1,3-Dichloropropene	10	U	10	4.2	ug/L			08/13/16 14:41	10
1,2,3-Trichlorobenzene	50	U	50	25	ug/L			08/13/16 14:41	10
1,1,1-Trichloroethane	10	U	10	3.7	ug/L			08/13/16 14:41	10
1,1,2-Trichloroethane	10	U	10	3.3	ug/L			08/13/16 14:41	10
Trichloroethene	10	U	10	4.8	ug/L			08/13/16 14:41	10
Trichlorofluoromethane	10	U	10	4.2	ug/L			08/13/16 14:41	10
1,2,4-Trimethylbenzene	**210**		10	4.7	ug/L			08/13/16 14:41	10
1,3,5-Trimethylbenzene	**17**		10	3.1	ug/L			08/13/16 14:41	10
Vinyl acetate	20	U	20	8.1	ug/L			08/13/16 14:41	10
Vinyl chloride	10	U	10	5.0	ug/L			08/13/16 14:41	10
Xylenes, Total	**440**		10	2.3	ug/L			08/13/16 14:41	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*08/13/16 14:41*	*10*
Dibromofluoromethane (Surr)	*101*		*80 - 122*		*08/13/16 14:41*	*10*
1,2-Dichloroethane-d4 (Surr)	*109*		*73 - 131*		*08/13/16 14:41*	*10*
Toluene-d8 (Surr)	*94*		*80 - 120*		*08/13/16 14:41*	*10*

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128342-1

Client Sample ID: 1600780-MW-1

Date Collected: 08/04/16 11:46
Date Received: 08/05/16 08:59

Lab Sample ID: 680-128342-4

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.097	ug/L		08/08/16 15:47	08/09/16 20:05	1
Acenaphthylene	0.19	U	0.19	0.097	ug/L		08/08/16 15:47	08/09/16 20:05	1
Acetophenone	**6.0**		0.97	0.29	ug/L		08/08/16 15:47	08/09/16 20:05	1
Anthracene	0.19	U	0.19	0.097	ug/L		08/08/16 15:47	08/09/16 20:05	1
Atrazine	3.9	U	3.9	1.9	ug/L		08/08/16 15:47	08/09/16 20:05	1
Benzaldehyde	0.97	U	0.97	0.097	ug/L		08/08/16 15:47	08/09/16 20:05	1
Benzo[a]anthracene	0.19	U	0.19	0.097	ug/L		08/08/16 15:47	08/09/16 20:05	1
Benzo[a]pyrene	0.19	U	0.19	0.097	ug/L		08/08/16 15:47	08/09/16 20:05	1
Benzo[b]fluoranthene	0.19	U	0.19	0.097	ug/L		08/08/16 15:47	08/09/16 20:05	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.097	ug/L		08/08/16 15:47	08/09/16 20:05	1
Benzo[k]fluoranthene	0.19	U	0.19	0.097	ug/L		08/08/16 15:47	08/09/16 20:05	1
1,1'-Biphenyl	0.97	U	0.97	0.097	ug/L		08/08/16 15:47	08/09/16 20:05	1
Bis(2-chloroethoxy)methane	0.97	U	0.97	0.097	ug/L		08/08/16 15:47	08/09/16 20:05	1
Bis(2-chloroethyl)ether	0.97	U	0.97	0.097	ug/L		08/08/16 15:47	08/09/16 20:05	1
Bis(2-ethylhexyl) phthalate	4.8	U	4.8	1.9	ug/L		08/08/16 15:47	08/09/16 20:05	1
4-Bromophenyl phenyl ether	0.97	U	0.97	0.12	ug/L		08/08/16 15:47	08/09/16 20:05	1
Butyl benzyl phthalate	0.97	U	0.97	0.12	ug/L		08/08/16 15:47	08/09/16 20:05	1
Caprolactam	0.97	U	0.97	0.13	ug/L		08/08/16 15:47	08/09/16 20:05	1
Carbazole	1.9	U	1.9	0.097	ug/L		08/08/16 15:47	08/09/16 20:05	1
4-Chloroaniline	3.9	U	3.9	1.9	ug/L		08/08/16 15:47	08/09/16 20:05	1
4-Chloro-3-methylphenol	0.97	U	0.97	0.12	ug/L		08/08/16 15:47	08/09/16 20:05	1
2-Chloronaphthalene	0.97	U	0.97	0.097	ug/L		08/08/16 15:47	08/09/16 20:05	1
2-Chlorophenol	0.97	U	0.97	0.12	ug/L		08/08/16 15:47	08/09/16 20:05	1
4-Chlorophenyl phenyl ether	0.97	U	0.97	0.097	ug/L		08/08/16 15:47	08/09/16 20:05	1
Chrysene	0.19	U	0.19	0.043	ug/L		08/08/16 15:47	08/09/16 20:05	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.097	ug/L		08/08/16 15:47	08/09/16 20:05	1
Dibenzofuran	0.97	U	0.97	0.097	ug/L		08/08/16 15:47	08/09/16 20:05	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		08/08/16 15:47	08/09/16 20:05	1
2,4-Dichlorophenol	0.97	U	0.97	0.097	ug/L		08/08/16 15:47	08/09/16 20:05	1
Diethyl phthalate	0.97	U	0.97	0.11	ug/L		08/08/16 15:47	08/09/16 20:05	1
2,4-Dimethylphenol	**1.5**	**J**	1.9	0.67	ug/L		08/08/16 15:47	08/09/16 20:05	1
Dimethyl phthalate	0.97	U	0.97	0.097	ug/L		08/08/16 15:47	08/09/16 20:05	1
Di-n-butyl phthalate	0.97	U	0.97	0.38	ug/L		08/08/16 15:47	08/09/16 20:05	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.97	ug/L		08/08/16 15:47	08/09/16 20:05	1
2,4-Dinitrophenol	9.7	U	9.7	1.1	ug/L		08/08/16 15:47	08/09/16 20:05	1
2,4-Dinitrotoluene	0.97	U	0.97	0.12	ug/L		08/08/16 15:47	08/09/16 20:05	1
2,6-Dinitrotoluene	0.97	U	0.97	0.13	ug/L		08/08/16 15:47	08/09/16 20:05	1
Di-n-octyl phthalate	0.97	U	0.97	0.16	ug/L		08/08/16 15:47	08/09/16 20:05	1
Fluoranthene	0.19	U	0.19	0.097	ug/L		08/08/16 15:47	08/09/16 20:05	1
Fluorene	0.19	U	0.19	0.097	ug/L		08/08/16 15:47	08/09/16 20:05	1
Hexachlorobenzene	0.97	U	0.97	0.097	ug/L		08/08/16 15:47	08/09/16 20:05	1
Hexachlorobutadiene	0.97	U	0.97	0.097	ug/L		08/08/16 15:47	08/09/16 20:05	1
Hexachlorocyclopentadiene	1.9	U *	1.9	0.48	ug/L		08/08/16 15:47	08/09/16 20:05	1
Hexachloroethane	0.97	U	0.97	0.48	ug/L		08/08/16 15:47	08/09/16 20:05	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.097	ug/L		08/08/16 15:47	08/09/16 20:05	1
Isophorone	0.97	U	0.97	0.097	ug/L		08/08/16 15:47	08/09/16 20:05	1
2-Methylnaphthalene	**3.3**		0.19	0.097	ug/L		08/08/16 15:47	08/09/16 20:05	1
2-Methylphenol	1.9	U	1.9	0.71	ug/L		08/08/16 15:47	08/09/16 20:05	1
3 & 4 Methylphenol	1.9	U	1.9	0.64	ug/L		08/08/16 15:47	08/09/16 20:05	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128342-1

Client Sample ID: 1600780-MW-1

Date Collected: 08/04/16 11:46
Date Received: 08/05/16 08:59

Lab Sample ID: 680-128342-4

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	0.97	U	0.97	0.15	ug/L		08/08/16 15:47	08/09/16 20:05	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		08/08/16 15:47	08/09/16 20:05	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		08/08/16 15:47	08/09/16 20:05	1
Nitrobenzene	0.97	U	0.97	0.097	ug/L		08/08/16 15:47	08/09/16 20:05	1
2-Nitrophenol	0.97	U	0.97	0.097	ug/L		08/08/16 15:47	08/09/16 20:05	1
4-Nitrophenol	7.7	U	7.7	3.9	ug/L		08/08/16 15:47	08/09/16 20:05	1
N-Nitrosodi-n-propylamine	0.97	U	0.97	0.13	ug/L		08/08/16 15:47	08/09/16 20:05	1
N-Nitrosodiphenylamine	0.97	U	0.97	0.36	ug/L		08/08/16 15:47	08/09/16 20:05	1
2,2'-oxybis[1-chloropropane]	0.97	U	0.97	0.097	ug/L		08/08/16 15:47	08/09/16 20:05	1
Pentachlorophenol	4.8	U	4.8	0.39	ug/L		08/08/16 15:47	08/09/16 20:05	1
Phenanthrene	0.19	U	0.19	0.097	ug/L		08/08/16 15:47	08/09/16 20:05	1
Phenol	**10**		0.97	0.13	ug/L		08/08/16 15:47	08/09/16 20:05	1
Pyrene	0.19	U	0.19	0.097	ug/L		08/08/16 15:47	08/09/16 20:05	1
2,4,5-Trichlorophenol	0.97	U	0.97	0.12	ug/L		08/08/16 15:47	08/09/16 20:05	1
2,4,6-Trichlorophenol	0.97	U	0.97	0.16	ug/L		08/08/16 15:47	08/09/16 20:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*70*		*31 - 107*	*08/08/16 15:47*	*08/09/16 20:05*	*1*
2-Fluorophenol	*63*		*18 - 112*	*08/08/16 15:47*	*08/09/16 20:05*	*1*
Nitrobenzene-d5 (Surr)	*66*		*37 - 103*	*08/08/16 15:47*	*08/09/16 20:05*	*1*
Phenol-d5 (Surr)	*61*		*20 - 113*	*08/08/16 15:47*	*08/09/16 20:05*	*1*
Terphenyl-d14 (Surr)	*60*		*22 - 121*	*08/08/16 15:47*	*08/09/16 20:05*	*1*
2,4,6-Tribromophenol (Surr)	*76*		*39 - 133*	*08/08/16 15:47*	*08/09/16 20:05*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**27**		0.97	0.48	ug/L		08/08/16 15:47	08/10/16 19:44	5

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.053**		0.050	0.023	mg/L			08/05/16 15:31	1
Sulfate	**33**		1.0	0.40	mg/L			08/15/16 13:09	1
Chloride	**510**		13	5.0	mg/L			08/16/16 12:51	25
Bromide	**1.4**		0.50	0.20	mg/L			08/15/16 13:09	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	20	U	20	5.3	ug/L		08/08/16 10:53	08/09/16 02:12	1
Arsenic	20	U	20	6.2	ug/L		08/08/16 10:53	08/09/16 02:12	1
Beryllium	4.0	U	4.0	0.10	ug/L		08/08/16 10:53	08/09/16 02:12	1
Cadmium	5.0	U	5.0	1.0	ug/L		08/08/16 10:53	08/09/16 02:12	1
Calcium	**260000**		500	25	ug/L		08/08/16 10:53	08/09/16 02:12	1
Chromium	10	U	10	1.6	ug/L		08/08/16 10:53	08/09/16 02:12	1
Copper	20	U	20	1.8	ug/L		08/08/16 10:53	08/09/16 02:12	1
Iron	**3500**		50	17	ug/L		08/08/16 10:53	08/09/16 02:12	1
Lead	10	U	10	3.9	ug/L		08/08/16 10:53	08/09/16 02:12	1
Magnesium	**53000**		500	33	ug/L		08/08/16 10:53	08/09/16 02:12	1
Manganese	**9300**		10	1.0	ug/L		08/08/16 10:53	08/09/16 02:12	1
Nickel	**3.6**	**J**	40	2.1	ug/L		08/08/16 10:53	08/09/16 02:12	1
Potassium	**650**	**J**	1000	17	ug/L		08/08/16 10:53	08/09/16 02:12	1

Client Sample ID: 1600780-MW-1

Lab Sample ID: 680-128342-4

Date Collected: 08/04/16 11:46

Matrix: Water

Date Received: 08/05/16 08:59

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	20	U	20	9.9	ug/L		08/08/16 10:53	08/09/16 02:12	1
Silver	10	U	10	0.60	ug/L		08/08/16 10:53	08/09/16 02:12	1
Sodium	**130000**		10000	4800	ug/L		08/08/16 10:53	08/17/16 23:55	10
Thallium	25	U	25	6.0	ug/L		08/08/16 10:53	08/09/16 02:12	1
Zinc	20	U	20	7.0	ug/L		08/08/16 10:53	08/09/16 02:12	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.080	ug/L		08/09/16 12:28	08/10/16 15:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**450**		5.0	5.0	mg/L			08/09/16 19:22	1
Bicarbonate Alkalinity as CaCO3	**440**		5.0	5.0	mg/L			08/09/16 19:22	1
Ammonia	0.25	U	0.25	0.10	mg/L			08/16/16 10:21	1
Phosphorus	**0.078**	**J**	0.10	0.041	mg/L		08/16/16 09:35	08/17/16 11:09	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**1700**		20	20	mg/L			08/09/16 13:37	1
Sulfide	1.0	U	1.0	1.0	mg/L			08/11/16 07:50	1

Client Sample ID: 1600780-MW-18

Lab Sample ID: 680-128342-5

Date Collected: 08/04/16 12:04

Matrix: Water

Date Received: 08/05/16 08:59

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	500	U F1	500	350	ug/L			08/13/16 15:03	50
Benzene	**4600**		50	22	ug/L			08/13/16 15:03	50
Bromobenzene	50	U	50	25	ug/L			08/13/16 15:03	50
Bromochloromethane	50	U	50	23	ug/L			08/13/16 15:03	50
Bromodichloromethane	50	U	50	22	ug/L			08/13/16 15:03	50
Bromoform	50	U	50	22	ug/L			08/13/16 15:03	50
Bromomethane	250	U	250	130	ug/L			08/13/16 15:03	50
2-Butanone (MEK)	500	U F1	500	170	ug/L			08/13/16 15:03	50
Carbon disulfide	100	U	100	50	ug/L			08/13/16 15:03	50
Carbon tetrachloride	50	U	50	17	ug/L			08/13/16 15:03	50
Chlorobenzene	50	U	50	13	ug/L			08/13/16 15:03	50
Chloroethane	250	U	250	130	ug/L			08/13/16 15:03	50
Chloroform	50	U	50	25	ug/L			08/13/16 15:03	50
Chloromethane	50	U	50	20	ug/L			08/13/16 15:03	50
2-Chlorotoluene	50	U	50	14	ug/L			08/13/16 15:03	50
4-Chlorotoluene	50	U	50	23	ug/L			08/13/16 15:03	50
cis-1,2-Dichloroethene	50	U	50	21	ug/L			08/13/16 15:03	50
cis-1,3-Dichloropropene	50	U	50	20	ug/L			08/13/16 15:03	50
Dibromochloromethane	50	U	50	16	ug/L			08/13/16 15:03	50
Dibromomethane	50	U	50	18	ug/L			08/13/16 15:03	50
Dichlorodifluoromethane	50	U	50	30	ug/L			08/13/16 15:03	50
1,1-Dichloroethane	50	U	50	19	ug/L			08/13/16 15:03	50
1,2-Dichloroethane	50	U	50	25	ug/L			08/13/16 15:03	50
1,1-Dichloroethene	50	U	50	18	ug/L			08/13/16 15:03	50

Client Sample ID: 1600780-MW-18

Lab Sample ID: 680-128342-5

Date Collected: 08/04/16 12:04

Matrix: Water

Date Received: 08/05/16 08:59

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethene, Total	100	U	100	19	ug/L			08/13/16 15:03	50
1,2-Dichloropropane	50	U	50	34	ug/L			08/13/16 15:03	50
1,3-Dichloropropane	50	U	50	17	ug/L			08/13/16 15:03	50
2,2-Dichloropropane	50	U	50	19	ug/L			08/13/16 15:03	50
1,1-Dichloropropene	50	U	50	17	ug/L			08/13/16 15:03	50
Ethylbenzene	**1200**		50	17	ug/L			08/13/16 15:03	50
2-Hexanone	500	U	500	100	ug/L			08/13/16 15:03	50
Isopropylbenzene	**110**		50	18	ug/L			08/13/16 15:03	50
Methylene Chloride	250	U	250	130	ug/L			08/13/16 15:03	50
4-Methyl-2-pentanone	500	U	500	110	ug/L			08/13/16 15:03	50
Methyl tert-butyl ether	500	U	500	15	ug/L			08/13/16 15:03	50
m-Xylene & p-Xylene	**4200**	**F1**	50	18	ug/L			08/13/16 15:03	50
n-Butylbenzene	50	U	50	24	ug/L			08/13/16 15:03	50
N-Propylbenzene	**330**	**F1**	50	19	ug/L			08/13/16 15:03	50
o-Xylene	**1100**		50	12	ug/L			08/13/16 15:03	50
p-Isopropyltoluene	50	U F1	50	24	ug/L			08/13/16 15:03	50
sec-Butylbenzene	50	U F1	50	21	ug/L			08/13/16 15:03	50
Styrene	50	U	50	14	ug/L			08/13/16 15:03	50
tert-Butylbenzene	50	U F1	50	23	ug/L			08/13/16 15:03	50
1,1,1,2-Tetrachloroethane	50	U	50	19	ug/L			08/13/16 15:03	50
1,1,2,2-Tetrachloroethane	50	U	50	31	ug/L			08/13/16 15:03	50
Tetrachloroethene	50	U	50	37	ug/L			08/13/16 15:03	50
Toluene	**1600**	**F1**	50	24	ug/L			08/13/16 15:03	50
trans-1,2-Dichloroethene	50	U	50	19	ug/L			08/13/16 15:03	50
trans-1,3-Dichloropropene	50	U	50	21	ug/L			08/13/16 15:03	50
1,2,3-Trichlorobenzene	250	U	250	130	ug/L			08/13/16 15:03	50
1,1,1-Trichloroethane	50	U	50	19	ug/L			08/13/16 15:03	50
1,1,2-Trichloroethane	50	U	50	17	ug/L			08/13/16 15:03	50
Trichloroethene	50	U	50	24	ug/L			08/13/16 15:03	50
Trichlorofluoromethane	50	U	50	21	ug/L			08/13/16 15:03	50
1,2,4-Trimethylbenzene	**2200**	**F1**	50	24	ug/L			08/13/16 15:03	50
1,3,5-Trimethylbenzene	**640**	**F1**	50	16	ug/L			08/13/16 15:03	50
Vinyl acetate	100	U	100	41	ug/L			08/13/16 15:03	50
Vinyl chloride	50	U	50	25	ug/L			08/13/16 15:03	50
Xylenes, Total	**5300**		50	12	ug/L			08/13/16 15:03	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*08/13/16 15:03*	*50*
Dibromofluoromethane (Surr)	*96*		*80 - 122*		*08/13/16 15:03*	*50*
1,2-Dichloroethane-d4 (Surr)	*98*		*73 - 131*		*08/13/16 15:03*	*50*
Toluene-d8 (Surr)	*100*		*80 - 120*		*08/13/16 15:03*	*50*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.16**	**J**	0.19	0.095	ug/L		08/08/16 15:47	08/09/16 20:29	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L		08/08/16 15:47	08/09/16 20:29	1
Anthracene	0.19	U	0.19	0.095	ug/L		08/08/16 15:47	08/09/16 20:29	1
Atrazine	3.8	U	3.8	1.9	ug/L		08/08/16 15:47	08/09/16 20:29	1
Benzaldehyde	0.95	U F1	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 20:29	1
Benzo[a]anthracene	0.19	U	0.19	0.095	ug/L		08/08/16 15:47	08/09/16 20:29	1

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128342-1

Client Sample ID: 1600780-MW-18
Date Collected: 08/04/16 12:04
Date Received: 08/05/16 08:59

Lab Sample ID: 680-128342-5
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.19	U	0.19	0.095	ug/L		08/08/16 15:47	08/09/16 20:29	1
Benzo[b]fluoranthene	0.19	U	0.19	0.095	ug/L		08/08/16 15:47	08/09/16 20:29	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.095	ug/L		08/08/16 15:47	08/09/16 20:29	1
Benzo[k]fluoranthene	0.19	U	0.19	0.095	ug/L		08/08/16 15:47	08/09/16 20:29	1
1,1'-Biphenyl	**0.77**	**J**	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 20:29	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 20:29	1
Bis(2-chloroethyl)ether	0.95	U F1	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 20:29	1
Bis(2-ethylhexyl) phthalate	4.8	U	4.8	1.9	ug/L		08/08/16 15:47	08/09/16 20:29	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L		08/08/16 15:47	08/09/16 20:29	1
Butyl benzyl phthalate	0.95	U	0.95	0.11	ug/L		08/08/16 15:47	08/09/16 20:29	1
Caprolactam	0.95	U F1	0.95	0.12	ug/L		08/08/16 15:47	08/09/16 20:29	1
Carbazole	1.9	U	1.9	0.095	ug/L		08/08/16 15:47	08/09/16 20:29	1
4-Chloroaniline	3.8	U F1	3.8	1.9	ug/L		08/08/16 15:47	08/09/16 20:29	1
4-Chloro-3-methylphenol	0.95	U F1	0.95	0.11	ug/L		08/08/16 15:47	08/09/16 20:29	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 20:29	1
2-Chlorophenol	0.95	U F1	0.95	0.11	ug/L		08/08/16 15:47	08/09/16 20:29	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 20:29	1
Chrysene	0.19	U	0.19	0.043	ug/L		08/08/16 15:47	08/09/16 20:29	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.095	ug/L		08/08/16 15:47	08/09/16 20:29	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 20:29	1
3,3'-Dichlorobenzidine	19	U F1	19	1.9	ug/L		08/08/16 15:47	08/09/16 20:29	1
2,4-Dichlorophenol	0.95	U	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 20:29	1
Diethyl phthalate	0.95	U	0.95	0.10	ug/L		08/08/16 15:47	08/09/16 20:29	1
Dimethyl phthalate	0.95	U F2	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 20:29	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		08/08/16 15:47	08/09/16 20:29	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.95	ug/L		08/08/16 15:47	08/09/16 20:29	1
2,4-Dinitrophenol	9.5	U	9.5	1.0	ug/L		08/08/16 15:47	08/09/16 20:29	1
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		08/08/16 15:47	08/09/16 20:29	1
2,6-Dinitrotoluene	**0.74**	**J**	0.95	0.12	ug/L		08/08/16 15:47	08/09/16 20:29	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		08/08/16 15:47	08/09/16 20:29	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		08/08/16 15:47	08/09/16 20:29	1
Fluorene	**0.26**		0.19	0.095	ug/L		08/08/16 15:47	08/09/16 20:29	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 20:29	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 20:29	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		08/08/16 15:47	08/09/16 20:29	1
Hexachloroethane	0.95	U F1	0.95	0.48	ug/L		08/08/16 15:47	08/09/16 20:29	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095	ug/L		08/08/16 15:47	08/09/16 20:29	1
Isophorone	0.95	U	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 20:29	1
2-Methylphenol	**12**	**F1**	1.9	0.71	ug/L		08/08/16 15:47	08/09/16 20:29	1
3 & 4 Methylphenol	**16**	**F1**	1.9	0.63	ug/L		08/08/16 15:47	08/09/16 20:29	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		08/08/16 15:47	08/09/16 20:29	1
3-Nitroaniline	4.8	U F1	4.8	0.15	ug/L		08/08/16 15:47	08/09/16 20:29	1
4-Nitroaniline	4.8	U F1	4.8	0.48	ug/L		08/08/16 15:47	08/09/16 20:29	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 20:29	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 20:29	1
4-Nitrophenol	7.6	U	7.6	3.8	ug/L		08/08/16 15:47	08/09/16 20:29	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		08/08/16 15:47	08/09/16 20:29	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		08/08/16 15:47	08/09/16 20:29	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 20:29	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128342-1

Client Sample ID: 1600780-MW-18

Date Collected: 08/04/16 12:04
Date Received: 08/05/16 08:59

Lab Sample ID: 680-128342-5

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	4.8	U	4.8	0.38	ug/L		08/08/16 15:47	08/09/16 20:29	1
Phenanthrene	**0.36**		0.19	0.095	ug/L		08/08/16 15:47	08/09/16 20:29	1
Pyrene	0.19	U	0.19	0.095	ug/L		08/08/16 15:47	08/09/16 20:29	1
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		08/08/16 15:47	08/09/16 20:29	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		08/08/16 15:47	08/09/16 20:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*54*		*31 - 107*	*08/08/16 15:47*	*08/09/16 20:29*	*1*
2-Fluorophenol	*53*		*18 - 112*	*08/08/16 15:47*	*08/09/16 20:29*	*1*
Nitrobenzene-d5 (Surr)	*69*		*37 - 103*	*08/08/16 15:47*	*08/09/16 20:29*	*1*
Phenol-d5 (Surr)	*52*		*20 - 113*	*08/08/16 15:47*	*08/09/16 20:29*	*1*
Terphenyl-d14 (Surr)	*53*		*22 - 121*	*08/08/16 15:47*	*08/09/16 20:29*	*1*
2,4,6-Tribromophenol (Surr)	*63*		*39 - 133*	*08/08/16 15:47*	*08/09/16 20:29*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	4.8	U	4.8	1.4	ug/L		08/08/16 15:47	08/10/16 20:09	5
2,4-Dimethylphenol	**37**		9.5	3.3	ug/L		08/08/16 15:47	08/10/16 20:09	5
2-Methylnaphthalene	**91**		0.95	0.48	ug/L		08/08/16 15:47	08/10/16 20:09	5
Phenol	**79**		4.8	0.62	ug/L		08/08/16 15:47	08/10/16 20:09	5

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**180**		9.5	4.8	ug/L		08/08/16 15:47	08/10/16 20:34	50

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.050	U	0.050	0.023	mg/L			08/05/16 16:03	1
Sulfate	**410**		10	4.0	mg/L			08/16/16 11:24	10
Chloride	**110**		5.0	2.0	mg/L			08/16/16 11:24	10
Bromide	**0.55**		0.50	0.20	mg/L			08/15/16 20:24	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	20	U	20	5.3	ug/L		08/08/16 10:53	08/09/16 02:17	1
Arsenic	**8.8**	**J**	20	6.2	ug/L		08/08/16 10:53	08/09/16 02:17	1
Beryllium	4.0	U	4.0	0.10	ug/L		08/08/16 10:53	08/09/16 02:17	1
Cadmium	5.0	U	5.0	1.0	ug/L		08/08/16 10:53	08/09/16 02:17	1
Calcium	**310000**		500	25	ug/L		08/08/16 10:53	08/09/16 02:17	1
Chromium	10	U	10	1.6	ug/L		08/08/16 10:53	08/09/16 02:17	1
Copper	20	U	20	1.8	ug/L		08/08/16 10:53	08/09/16 02:17	1
Iron	**12000**	**F1**	50	17	ug/L		08/08/16 10:53	08/09/16 02:17	1
Lead	10	U	10	3.9	ug/L		08/08/16 10:53	08/09/16 02:17	1
Magnesium	**62000**		500	33	ug/L		08/08/16 10:53	08/09/16 02:17	1
Manganese	**3500**		10	1.0	ug/L		08/08/16 10:53	08/09/16 02:17	1
Nickel	**7.4**	**J**	40	2.1	ug/L		08/08/16 10:53	08/09/16 02:17	1
Potassium	**2300**		1000	17	ug/L		08/08/16 10:53	08/09/16 02:17	1
Selenium	20	U	20	9.9	ug/L		08/08/16 10:53	08/09/16 02:17	1
Silver	10	U	10	0.60	ug/L		08/08/16 10:53	08/09/16 02:17	1
Sodium	**59000**		1000	480	ug/L		08/08/16 10:53	08/09/16 02:17	1
Thallium	25	U	25	6.0	ug/L		08/08/16 10:53	08/09/16 02:17	1

Client Sample ID: 1600780-MW-18

Lab Sample ID: 680-128342-5
Date Collected: 08/04/16 12:04
Matrix: Water
Date Received: 08/05/16 08:59

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	20	U	20	7.0	ug/L		08/08/16 10:53	08/09/16 02:17	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.080	ug/L		08/09/16 12:28	08/10/16 15:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**590**		5.0	5.0	mg/L			08/09/16 19:46	1
Bicarbonate Alkalinity as CaCO3	**590**		5.0	5.0	mg/L			08/09/16 19:46	1
Ammonia	0.25	U	0.25	0.10	mg/L			08/16/16 10:12	1
Phosphorus	**0.049**	**J**	0.10	0.041	mg/L		08/16/16 09:40	08/17/16 11:23	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**1400**		10	10	mg/L			08/09/16 11:54	1
Sulfide	**3.3**		1.0	1.0	mg/L			08/11/16 07:50	1

Client Sample ID: 1600780-DUP-1

Lab Sample ID: 680-128342-6
Date Collected: 08/04/16 12:00
Matrix: Water
Date Received: 08/05/16 08:59

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	500	U	500	350	ug/L			08/13/16 15:26	50
Benzene	**4600**		50	22	ug/L			08/13/16 15:26	50
Bromobenzene	50	U	50	25	ug/L			08/13/16 15:26	50
Bromochloromethane	50	U	50	23	ug/L			08/13/16 15:26	50
Bromodichloromethane	50	U	50	22	ug/L			08/13/16 15:26	50
Bromoform	50	U	50	22	ug/L			08/13/16 15:26	50
Bromomethane	250	U	250	130	ug/L			08/13/16 15:26	50
2-Butanone (MEK)	500	U	500	170	ug/L			08/13/16 15:26	50
Carbon disulfide	100	U	100	50	ug/L			08/13/16 15:26	50
Carbon tetrachloride	50	U	50	17	ug/L			08/13/16 15:26	50
Chlorobenzene	50	U	50	13	ug/L			08/13/16 15:26	50
Chloroethane	250	U	250	130	ug/L			08/13/16 15:26	50
Chloroform	50	U	50	25	ug/L			08/13/16 15:26	50
Chloromethane	50	U	50	20	ug/L			08/13/16 15:26	50
2-Chlorotoluene	50	U	50	14	ug/L			08/13/16 15:26	50
4-Chlorotoluene	50	U	50	23	ug/L			08/13/16 15:26	50
cis-1,2-Dichloroethene	50	U	50	21	ug/L			08/13/16 15:26	50
cis-1,3-Dichloropropene	50	U	50	20	ug/L			08/13/16 15:26	50
Dibromochloromethane	50	U	50	16	ug/L			08/13/16 15:26	50
Dibromomethane	50	U	50	18	ug/L			08/13/16 15:26	50
Dichlorodifluoromethane	50	U	50	30	ug/L			08/13/16 15:26	50
1,1-Dichloroethane	50	U	50	19	ug/L			08/13/16 15:26	50
1,2-Dichloroethane	50	U	50	25	ug/L			08/13/16 15:26	50
1,1-Dichloroethene	50	U	50	18	ug/L			08/13/16 15:26	50
1,2-Dichloroethene, Total	100	U	100	19	ug/L			08/13/16 15:26	50
1,2-Dichloropropane	50	U	50	34	ug/L			08/13/16 15:26	50
1,3-Dichloropropane	50	U	50	17	ug/L			08/13/16 15:26	50
2,2-Dichloropropane	50	U	50	19	ug/L			08/13/16 15:26	50

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128342-1

Client Sample ID: 1600780-DUP-1

Date Collected: 08/04/16 12:00
Date Received: 08/05/16 08:59

Lab Sample ID: 680-128342-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	50	U	50	17	ug/L			08/13/16 15:26	50
Ethylbenzene	**1200**		50	17	ug/L			08/13/16 15:26	50
2-Hexanone	500	U	500	100	ug/L			08/13/16 15:26	50
Isopropylbenzene	**100**		50	18	ug/L			08/13/16 15:26	50
Methylene Chloride	250	U	250	130	ug/L			08/13/16 15:26	50
4-Methyl-2-pentanone	500	U	500	110	ug/L			08/13/16 15:26	50
Methyl tert-butyl ether	500	U	500	15	ug/L			08/13/16 15:26	50
m-Xylene & p-Xylene	**3900**		50	18	ug/L			08/13/16 15:26	50
n-Butylbenzene	50	U	50	24	ug/L			08/13/16 15:26	50
N-Propylbenzene	**310**		50	19	ug/L			08/13/16 15:26	50
o-Xylene	**1000**		50	12	ug/L			08/13/16 15:26	50
p-Isopropyltoluene	50	U	50	24	ug/L			08/13/16 15:26	50
sec-Butylbenzene	50	U	50	21	ug/L			08/13/16 15:26	50
Styrene	50	U	50	14	ug/L			08/13/16 15:26	50
tert-Butylbenzene	50	U	50	23	ug/L			08/13/16 15:26	50
1,1,1,2-Tetrachloroethane	50	U	50	19	ug/L			08/13/16 15:26	50
1,1,2,2-Tetrachloroethane	50	U	50	31	ug/L			08/13/16 15:26	50
Tetrachloroethene	50	U	50	37	ug/L			08/13/16 15:26	50
Toluene	**1500**		50	24	ug/L			08/13/16 15:26	50
trans-1,2-Dichloroethene	50	U	50	19	ug/L			08/13/16 15:26	50
trans-1,3-Dichloropropene	50	U	50	21	ug/L			08/13/16 15:26	50
1,2,3-Trichlorobenzene	250	U	250	130	ug/L			08/13/16 15:26	50
1,1,1-Trichloroethane	50	U	50	19	ug/L			08/13/16 15:26	50
1,1,2-Trichloroethane	50	U	50	17	ug/L			08/13/16 15:26	50
Trichloroethene	50	U	50	24	ug/L			08/13/16 15:26	50
Trichlorofluoromethane	50	U	50	21	ug/L			08/13/16 15:26	50
1,2,4-Trimethylbenzene	**2100**		50	24	ug/L			08/13/16 15:26	50
1,3,5-Trimethylbenzene	**610**		50	16	ug/L			08/13/16 15:26	50
Vinyl acetate	100	U	100	41	ug/L			08/13/16 15:26	50
Vinyl chloride	50	U	50	25	ug/L			08/13/16 15:26	50
Xylenes, Total	**4900**		50	12	ug/L			08/13/16 15:26	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*08/13/16 15:26*	*50*
Dibromofluoromethane (Surr)	*97*		*80 - 122*		*08/13/16 15:26*	*50*
1,2-Dichloroethane-d4 (Surr)	*101*		*73 - 131*		*08/13/16 15:26*	*50*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/13/16 15:26*	*50*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.095	ug/L		08/08/16 15:47	08/09/16 20:53	1
Acenaphthylene	0.19	U	0.19	0.095	ug/L		08/08/16 15:47	08/09/16 20:53	1
Anthracene	0.19	U	0.19	0.095	ug/L		08/08/16 15:47	08/09/16 20:53	1
Atrazine	3.8	U	3.8	1.9	ug/L		08/08/16 15:47	08/09/16 20:53	1
Benzaldehyde	0.95	U	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 20:53	1
Benzo[a]anthracene	0.19	U	0.19	0.095	ug/L		08/08/16 15:47	08/09/16 20:53	1
Benzo[a]pyrene	0.19	U	0.19	0.095	ug/L		08/08/16 15:47	08/09/16 20:53	1
Benzo[b]fluoranthene	0.19	U	0.19	0.095	ug/L		08/08/16 15:47	08/09/16 20:53	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.095	ug/L		08/08/16 15:47	08/09/16 20:53	1
Benzo[k]fluoranthene	0.19	U	0.19	0.095	ug/L		08/08/16 15:47	08/09/16 20:53	1

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128342-1

Client Sample ID: 1600780-DUP-1
Date Collected: 08/04/16 12:00
Date Received: 08/05/16 08:59

Lab Sample ID: 680-128342-6
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	**0.59**	**J**	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 20:53	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 20:53	1
Bis(2-chloroethyl)ether	0.95	U	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 20:53	1
Bis(2-ethylhexyl) phthalate	4.8	U	4.8	1.9	ug/L		08/08/16 15:47	08/09/16 20:53	1
4-Bromophenyl phenyl ether	0.95	U	0.95	0.11	ug/L		08/08/16 15:47	08/09/16 20:53	1
Butyl benzyl phthalate	0.95	U	0.95	0.11	ug/L		08/08/16 15:47	08/09/16 20:53	1
Caprolactam	0.95	U	0.95	0.12	ug/L		08/08/16 15:47	08/09/16 20:53	1
Carbazole	1.9	U	1.9	0.095	ug/L		08/08/16 15:47	08/09/16 20:53	1
4-Chloroaniline	3.8	U	3.8	1.9	ug/L		08/08/16 15:47	08/09/16 20:53	1
4-Chloro-3-methylphenol	0.95	U	0.95	0.11	ug/L		08/08/16 15:47	08/09/16 20:53	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 20:53	1
2-Chlorophenol	0.95	U	0.95	0.11	ug/L		08/08/16 15:47	08/09/16 20:53	1
4-Chlorophenyl phenyl ether	0.95	U	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 20:53	1
Chrysene	0.19	U	0.19	0.043	ug/L		08/08/16 15:47	08/09/16 20:53	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.095	ug/L		08/08/16 15:47	08/09/16 20:53	1
Dibenzofuran	0.95	U	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 20:53	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		08/08/16 15:47	08/09/16 20:53	1
2,4-Dichlorophenol	0.95	U	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 20:53	1
Diethyl phthalate	0.95	U	0.95	0.10	ug/L		08/08/16 15:47	08/09/16 20:53	1
2,4-Dimethylphenol	**14**		1.9	0.66	ug/L		08/08/16 15:47	08/09/16 20:53	1
Dimethyl phthalate	0.95	U	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 20:53	1
Di-n-butyl phthalate	0.95	U	0.95	0.37	ug/L		08/08/16 15:47	08/09/16 20:53	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.95	ug/L		08/08/16 15:47	08/09/16 20:53	1
2,4-Dinitrophenol	9.5	U	9.5	1.0	ug/L		08/08/16 15:47	08/09/16 20:53	1
2,4-Dinitrotoluene	0.95	U	0.95	0.11	ug/L		08/08/16 15:47	08/09/16 20:53	1
2,6-Dinitrotoluene	0.95	U	0.95	0.12	ug/L		08/08/16 15:47	08/09/16 20:53	1
Di-n-octyl phthalate	0.95	U	0.95	0.16	ug/L		08/08/16 15:47	08/09/16 20:53	1
Fluoranthene	0.19	U	0.19	0.095	ug/L		08/08/16 15:47	08/09/16 20:53	1
Fluorene	**0.17**	**J**	0.19	0.095	ug/L		08/08/16 15:47	08/09/16 20:53	1
Hexachlorobenzene	0.95	U	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 20:53	1
Hexachlorobutadiene	0.95	U	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 20:53	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		08/08/16 15:47	08/09/16 20:53	1
Hexachloroethane	0.95	U	0.95	0.48	ug/L		08/08/16 15:47	08/09/16 20:53	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095	ug/L		08/08/16 15:47	08/09/16 20:53	1
Isophorone	0.95	U	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 20:53	1
2-Methylphenol	1.9	U	1.9	0.71	ug/L		08/08/16 15:47	08/09/16 20:53	1
3 & 4 Methylphenol	1.9	U	1.9	0.63	ug/L		08/08/16 15:47	08/09/16 20:53	1
2-Nitroaniline	0.95	U	0.95	0.15	ug/L		08/08/16 15:47	08/09/16 20:53	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		08/08/16 15:47	08/09/16 20:53	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		08/08/16 15:47	08/09/16 20:53	1
Nitrobenzene	0.95	U	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 20:53	1
2-Nitrophenol	0.95	U	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 20:53	1
4-Nitrophenol	7.6	U	7.6	3.8	ug/L		08/08/16 15:47	08/09/16 20:53	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.12	ug/L		08/08/16 15:47	08/09/16 20:53	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.35	ug/L		08/08/16 15:47	08/09/16 20:53	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.095	ug/L		08/08/16 15:47	08/09/16 20:53	1
Pentachlorophenol	4.8	U	4.8	0.38	ug/L		08/08/16 15:47	08/09/16 20:53	1
Phenanthrene	**0.30**		0.19	0.095	ug/L		08/08/16 15:47	08/09/16 20:53	1
Pyrene	0.19	U	0.19	0.095	ug/L		08/08/16 15:47	08/09/16 20:53	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128342-1

Client Sample ID: 1600780-DUP-1

Date Collected: 08/04/16 12:00
Date Received: 08/05/16 08:59

Lab Sample ID: 680-128342-6

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	0.95	U	0.95	0.11	ug/L		08/08/16 15:47	08/09/16 20:53	1
2,4,6-Trichlorophenol	0.95	U	0.95	0.16	ug/L		08/08/16 15:47	08/09/16 20:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*44*		*31 - 107*	*08/08/16 15:47*	*08/09/16 20:53*	*1*
2-Fluorophenol	*53*		*18 - 112*	*08/08/16 15:47*	*08/09/16 20:53*	*1*
Nitrobenzene-d5 (Surr)	*49*		*37 - 103*	*08/08/16 15:47*	*08/09/16 20:53*	*1*
Phenol-d5 (Surr)	*52*		*20 - 113*	*08/08/16 15:47*	*08/09/16 20:53*	*1*
Terphenyl-d14 (Surr)	*51*		*22 - 121*	*08/08/16 15:47*	*08/09/16 20:53*	*1*
2,4,6-Tribromophenol (Surr)	*54*		*39 - 133*	*08/08/16 15:47*	*08/09/16 20:53*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	**39**		9.5	2.9	ug/L		08/08/16 15:47	08/10/16 20:59	10
2-Methylnaphthalene	**74**		1.9	0.95	ug/L		08/08/16 15:47	08/10/16 20:59	10
Naphthalene	**120**		1.9	0.95	ug/L		08/08/16 15:47	08/10/16 20:59	10
Phenol	**44**		9.5	1.2	ug/L		08/08/16 15:47	08/10/16 20:59	10

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.050	U	0.050	0.023	mg/L			08/05/16 15:47	1
Sulfate	**430**		25	10	mg/L			08/16/16 13:26	25
Chloride	**120**		2.5	1.0	mg/L			08/16/16 13:08	5
Bromide	**0.58**		0.50	0.20	mg/L			08/15/16 15:46	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	20	U	20	5.3	ug/L		08/08/16 10:53	08/09/16 02:50	1
Arsenic	**9.2**	**J**	20	6.2	ug/L		08/08/16 10:53	08/09/16 02:50	1
Beryllium	4.0	U	4.0	0.10	ug/L		08/08/16 10:53	08/09/16 02:50	1
Cadmium	5.0	U	5.0	1.0	ug/L		08/08/16 10:53	08/09/16 02:50	1
Calcium	**310000**		500	25	ug/L		08/08/16 10:53	08/09/16 02:50	1
Chromium	10	U	10	1.6	ug/L		08/08/16 10:53	08/09/16 02:50	1
Copper	20	U	20	1.8	ug/L		08/08/16 10:53	08/09/16 02:50	1
Iron	**14000**		50	17	ug/L		08/08/16 10:53	08/09/16 02:50	1
Lead	10	U	10	3.9	ug/L		08/08/16 10:53	08/09/16 02:50	1
Magnesium	**63000**		500	33	ug/L		08/08/16 10:53	08/09/16 02:50	1
Manganese	**3500**		10	1.0	ug/L		08/08/16 10:53	08/09/16 02:50	1
Nickel	**6.4**	**J**	40	2.1	ug/L		08/08/16 10:53	08/09/16 02:50	1
Potassium	**2300**		1000	17	ug/L		08/08/16 10:53	08/09/16 02:50	1
Selenium	20	U	20	9.9	ug/L		08/08/16 10:53	08/09/16 02:50	1
Silver	10	U	10	0.60	ug/L		08/08/16 10:53	08/09/16 02:50	1
Sodium	**58000**		1000	480	ug/L		08/08/16 10:53	08/09/16 02:50	1
Thallium	25	U	25	6.0	ug/L		08/08/16 10:53	08/09/16 02:50	1
Zinc	20	U	20	7.0	ug/L		08/08/16 10:53	08/09/16 02:50	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.080	ug/L		08/09/16 12:28	08/10/16 16:09	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128342-1

Client Sample ID: 1600780-DUP-1

Lab Sample ID: 680-128342-6
Date Collected: 08/04/16 12:00
Matrix: Water
Date Received: 08/05/16 08:59

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	580		5.0	5.0	mg/L			08/15/16 18:34	1
Bicarbonate Alkalinity as CaCO3	570		5.0	5.0	mg/L			08/15/16 18:34	1
Ammonia	0.25	U	0.25	0.10	mg/L			08/16/16 10:21	1
Phosphorus	0.097	J	0.10	0.041	mg/L		08/16/16 09:19	08/17/16 10:35	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1400		10	10	mg/L			08/09/16 11:54	1
Sulfide	2.2		1.0	1.0	mg/L			08/11/16 07:50	1

Client Sample ID: 1600780-FB-3

Lab Sample ID: 680-128342-7
Date Collected: 08/04/16 14:45
Matrix: Water
Date Received: 08/05/16 08:59

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.4	J	10	7.0	ug/L			08/12/16 17:28	1
Benzene	1.0	U	1.0	0.43	ug/L			08/12/16 17:28	1
Bromobenzene	1.0	U	1.0	0.50	ug/L			08/12/16 17:28	1
Bromochloromethane	1.0	U	1.0	0.45	ug/L			08/12/16 17:28	1
Bromodichloromethane	1.0	U	1.0	0.44	ug/L			08/12/16 17:28	1
Bromoform	1.0	U	1.0	0.43	ug/L			08/12/16 17:28	1
Bromomethane	5.0	U	5.0	2.5	ug/L			08/12/16 17:28	1
2-Butanone (MEK)	10	U	10	3.4	ug/L			08/12/16 17:28	1
Carbon disulfide	2.0	U	2.0	1.0	ug/L			08/12/16 17:28	1
Carbon tetrachloride	1.0	U	1.0	0.33	ug/L			08/12/16 17:28	1
Chlorobenzene	1.0	U	1.0	0.26	ug/L			08/12/16 17:28	1
Chloroethane	5.0	U	5.0	2.5	ug/L			08/12/16 17:28	1
Chloroform	1.0	U	1.0	0.50	ug/L			08/12/16 17:28	1
Chloromethane	1.0	U	1.0	0.40	ug/L			08/12/16 17:28	1
2-Chlorotoluene	1.0	U	1.0	0.27	ug/L			08/12/16 17:28	1
4-Chlorotoluene	1.0	U	1.0	0.45	ug/L			08/12/16 17:28	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.41	ug/L			08/12/16 17:28	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.40	ug/L			08/12/16 17:28	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			08/12/16 17:28	1
Dibromomethane	1.0	U	1.0	0.35	ug/L			08/12/16 17:28	1
Dichlorodifluoromethane	1.0	U	1.0	0.60	ug/L			08/12/16 17:28	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			08/12/16 17:28	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			08/12/16 17:28	1
1,1-Dichloroethene	1.0	U	1.0	0.36	ug/L			08/12/16 17:28	1
1,2-Dichloroethene, Total	2.0	U	2.0	0.37	ug/L			08/12/16 17:28	1
1,2-Dichloropropane	1.0	U	1.0	0.67	ug/L			08/12/16 17:28	1
1,3-Dichloropropane	1.0	U	1.0	0.34	ug/L			08/12/16 17:28	1
2,2-Dichloropropane	1.0	U	1.0	0.37	ug/L			08/12/16 17:28	1
1,1-Dichloropropene	1.0	U	1.0	0.34	ug/L			08/12/16 17:28	1
Ethylbenzene	1.0	U	1.0	0.33	ug/L			08/12/16 17:28	1
2-Hexanone	10	U	10	2.0	ug/L			08/12/16 17:28	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			08/12/16 17:28	1
Methylene Chloride	5.0	U	5.0	2.5	ug/L			08/12/16 17:28	1
4-Methyl-2-pentanone	10	U	10	2.1	ug/L			08/12/16 17:28	1
Methyl tert-butyl ether	10	U	10	0.30	ug/L			08/12/16 17:28	1

Client Sample ID: 1600780-FB-3

Lab Sample ID: 680-128342-7

Date Collected: 08/04/16 14:45

Matrix: Water

Date Received: 08/05/16 08:59

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	1.0	U	1.0	0.35	ug/L			08/12/16 17:28	1
n-Butylbenzene	1.0	U	1.0	0.47	ug/L			08/12/16 17:28	1
N-Propylbenzene	1.0	U	1.0	0.38	ug/L			08/12/16 17:28	1
o-Xylene	1.0	U	1.0	0.23	ug/L			08/12/16 17:28	1
p-Isopropyltoluene	1.0	U	1.0	0.48	ug/L			08/12/16 17:28	1
sec-Butylbenzene	1.0	U	1.0	0.42	ug/L			08/12/16 17:28	1
Styrene	1.0	U	1.0	0.27	ug/L			08/12/16 17:28	1
tert-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/12/16 17:28	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/12/16 17:28	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.62	ug/L			08/12/16 17:28	1
Tetrachloroethene	1.0	U	1.0	0.74	ug/L			08/12/16 17:28	1
Toluene	1.0	U	1.0	0.48	ug/L			08/12/16 17:28	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.37	ug/L			08/12/16 17:28	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.42	ug/L			08/12/16 17:28	1
1,2,3-Trichlorobenzene	5.0	U	5.0	2.5	ug/L			08/12/16 17:28	1
1,1,1-Trichloroethane	1.0	U	1.0	0.37	ug/L			08/12/16 17:28	1
1,1,2-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/12/16 17:28	1
Trichloroethene	1.0	U	1.0	0.48	ug/L			08/12/16 17:28	1
Trichlorofluoromethane	1.0	U	1.0	0.42	ug/L			08/12/16 17:28	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.47	ug/L			08/12/16 17:28	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.31	ug/L			08/12/16 17:28	1
Vinyl acetate	2.0	U	2.0	0.81	ug/L			08/12/16 17:28	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			08/12/16 17:28	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			08/12/16 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*08/12/16 17:28*	*1*
Dibromofluoromethane (Surr)	*93*		*80 - 122*		*08/12/16 17:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*73 - 131*		*08/12/16 17:28*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*08/12/16 17:28*	*1*

Client Sample ID: 1600780-MW-23

Lab Sample ID: 680-128342-8

Date Collected: 08/04/16 15:44

Matrix: Water

Date Received: 08/05/16 08:59

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1000	U	1000	700	ug/L			08/13/16 15:48	100
Benzene	**16000**		100	43	ug/L			08/13/16 15:48	100
Bromobenzene	100	U	100	50	ug/L			08/13/16 15:48	100
Bromochloromethane	100	U	100	45	ug/L			08/13/16 15:48	100
Bromodichloromethane	100	U	100	44	ug/L			08/13/16 15:48	100
Bromoform	100	U	100	43	ug/L			08/13/16 15:48	100
Bromomethane	500	U	500	250	ug/L			08/13/16 15:48	100
2-Butanone (MEK)	1000	U	1000	340	ug/L			08/13/16 15:48	100
Carbon disulfide	200	U	200	100	ug/L			08/13/16 15:48	100
Carbon tetrachloride	100	U	100	33	ug/L			08/13/16 15:48	100
Chlorobenzene	100	U	100	26	ug/L			08/13/16 15:48	100
Chloroethane	500	U	500	250	ug/L			08/13/16 15:48	100
Chloroform	100	U	100	50	ug/L			08/13/16 15:48	100

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128342-1

Client Sample ID: 1600780-MW-23

Date Collected: 08/04/16 15:44
Date Received: 08/05/16 08:59

Lab Sample ID: 680-128342-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	100	U	100	40	ug/L			08/13/16 15:48	100
2-Chlorotoluene	100	U	100	27	ug/L			08/13/16 15:48	100
4-Chlorotoluene	100	U	100	45	ug/L			08/13/16 15:48	100
cis-1,2-Dichloroethene	100	U	100	41	ug/L			08/13/16 15:48	100
cis-1,3-Dichloropropene	100	U	100	40	ug/L			08/13/16 15:48	100
Dibromochloromethane	100	U	100	32	ug/L			08/13/16 15:48	100
Dibromomethane	100	U	100	35	ug/L			08/13/16 15:48	100
Dichlorodifluoromethane	100	U	100	60	ug/L			08/13/16 15:48	100
1,1-Dichloroethane	100	U	100	38	ug/L			08/13/16 15:48	100
1,2-Dichloroethane	100	U	100	50	ug/L			08/13/16 15:48	100
1,1-Dichloroethene	100	U	100	36	ug/L			08/13/16 15:48	100
1,2-Dichloroethene, Total	200	U	200	37	ug/L			08/13/16 15:48	100
1,2-Dichloropropane	100	U	100	67	ug/L			08/13/16 15:48	100
1,3-Dichloropropane	100	U	100	34	ug/L			08/13/16 15:48	100
2,2-Dichloropropane	100	U	100	37	ug/L			08/13/16 15:48	100
1,1-Dichloropropene	100	U	100	34	ug/L			08/13/16 15:48	100
Ethylbenzene	**4500**		100	33	ug/L			08/13/16 15:48	100
2-Hexanone	1000	U	1000	200	ug/L			08/13/16 15:48	100
Isopropylbenzene	**120**		100	35	ug/L			08/13/16 15:48	100
Methylene Chloride	500	U	500	250	ug/L			08/13/16 15:48	100
4-Methyl-2-pentanone	1000	U	1000	210	ug/L			08/13/16 15:48	100
Methyl tert-butyl ether	1000	U	1000	30	ug/L			08/13/16 15:48	100
m-Xylene & p-Xylene	**13000**		100	35	ug/L			08/13/16 15:48	100
n-Butylbenzene	100	U	100	47	ug/L			08/13/16 15:48	100
N-Propylbenzene	**360**		100	38	ug/L			08/13/16 15:48	100
o-Xylene	**5300**		100	23	ug/L			08/13/16 15:48	100
p-Isopropyltoluene	100	U	100	48	ug/L			08/13/16 15:48	100
sec-Butylbenzene	100	U	100	42	ug/L			08/13/16 15:48	100
Styrene	100	U	100	27	ug/L			08/13/16 15:48	100
tert-Butylbenzene	100	U	100	45	ug/L			08/13/16 15:48	100
1,1,1,2-Tetrachloroethane	100	U	100	37	ug/L			08/13/16 15:48	100
1,1,2,2-Tetrachloroethane	100	U	100	62	ug/L			08/13/16 15:48	100
Tetrachloroethene	100	U	100	74	ug/L			08/13/16 15:48	100
trans-1,2-Dichloroethene	100	U	100	37	ug/L			08/13/16 15:48	100
trans-1,3-Dichloropropene	100	U	100	42	ug/L			08/13/16 15:48	100
1,2,3-Trichlorobenzene	500	U	500	250	ug/L			08/13/16 15:48	100
1,1,1-Trichloroethane	100	U	100	37	ug/L			08/13/16 15:48	100
1,1,2-Trichloroethane	100	U	100	33	ug/L			08/13/16 15:48	100
Trichloroethene	100	U	100	48	ug/L			08/13/16 15:48	100
Trichlorofluoromethane	100	U	100	42	ug/L			08/13/16 15:48	100
1,2,4-Trimethylbenzene	**2400**		100	47	ug/L			08/13/16 15:48	100
1,3,5-Trimethylbenzene	**630**		100	31	ug/L			08/13/16 15:48	100
Vinyl acetate	200	U	200	81	ug/L			08/13/16 15:48	100
Vinyl chloride	100	U	100	50	ug/L			08/13/16 15:48	100
Xylenes, Total	**18000**		100	23	ug/L			08/13/16 15:48	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*80 - 120*		*08/13/16 15:48*	*100*
Dibromofluoromethane (Surr)	*102*		*80 - 122*		*08/13/16 15:48*	*100*
1,2-Dichloroethane-d4 (Surr)	*107*		*73 - 131*		*08/13/16 15:48*	*100*

Client Sample ID: 1600780-MW-23

Lab Sample ID: 680-128342-8

Date Collected: 08/04/16 15:44

Matrix: Water

Date Received: 08/05/16 08:59

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/13/16 15:48*	*100*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	**29000**		200	96	ug/L			08/18/16 10:51	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*08/18/16 10:51*	*200*
Dibromofluoromethane (Surr)	*104*		*80 - 122*		*08/18/16 10:51*	*200*
1,2-Dichloroethane-d4 (Surr)	*108*		*73 - 131*		*08/18/16 10:51*	*200*
Toluene-d8 (Surr)	*115*		*80 - 120*		*08/18/16 10:51*	*200*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1.9	U	1.9	0.96	ug/L		08/08/16 15:47	08/10/16 21:23	10
Acenaphthylene	1.9	U	1.9	0.96	ug/L		08/08/16 15:47	08/10/16 21:23	10
Acetophenone	9.6	U	9.6	2.9	ug/L		08/08/16 15:47	08/10/16 21:23	10
Anthracene	1.9	U	1.9	0.96	ug/L		08/08/16 15:47	08/10/16 21:23	10
Atrazine	38	U	38	19	ug/L		08/08/16 15:47	08/10/16 21:23	10
Benzaldehyde	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 21:23	10
Benzo[a]anthracene	1.9	U	1.9	0.96	ug/L		08/08/16 15:47	08/10/16 21:23	10
Benzo[a]pyrene	1.9	U	1.9	0.96	ug/L		08/08/16 15:47	08/10/16 21:23	10
Benzo[b]fluoranthene	1.9	U	1.9	0.96	ug/L		08/08/16 15:47	08/10/16 21:23	10
Benzo[g,h,i]perylene	1.9	U	1.9	0.96	ug/L		08/08/16 15:47	08/10/16 21:23	10
Benzo[k]fluoranthene	1.9	U	1.9	0.96	ug/L		08/08/16 15:47	08/10/16 21:23	10
1,1'-Biphenyl	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 21:23	10
Bis(2-chloroethoxy)methane	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 21:23	10
Bis(2-chloroethyl)ether	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 21:23	10
Bis(2-ethylhexyl) phthalate	48	U	48	19	ug/L		08/08/16 15:47	08/10/16 21:23	10
4-Bromophenyl phenyl ether	9.6	U	9.6	1.1	ug/L		08/08/16 15:47	08/10/16 21:23	10
Butyl benzyl phthalate	9.6	U	9.6	1.1	ug/L		08/08/16 15:47	08/10/16 21:23	10
Caprolactam	9.6	U	9.6	1.2	ug/L		08/08/16 15:47	08/10/16 21:23	10
Carbazole	19	U	19	0.96	ug/L		08/08/16 15:47	08/10/16 21:23	10
4-Chloroaniline	38	U	38	19	ug/L		08/08/16 15:47	08/10/16 21:23	10
4-Chloro-3-methylphenol	9.6	U	9.6	1.1	ug/L		08/08/16 15:47	08/10/16 21:23	10
2-Chloronaphthalene	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 21:23	10
2-Chlorophenol	9.6	U	9.6	1.1	ug/L		08/08/16 15:47	08/10/16 21:23	10
4-Chlorophenyl phenyl ether	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 21:23	10
Chrysene	1.9	U	1.9	0.43	ug/L		08/08/16 15:47	08/10/16 21:23	10
Dibenz(a,h)anthracene	1.9	U	1.9	0.96	ug/L		08/08/16 15:47	08/10/16 21:23	10
Dibenzofuran	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 21:23	10
3,3'-Dichlorobenzidine	190	U	190	19	ug/L		08/08/16 15:47	08/10/16 21:23	10
2,4-Dichlorophenol	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 21:23	10
Diethyl phthalate	9.6	U	9.6	1.1	ug/L		08/08/16 15:47	08/10/16 21:23	10
2,4-Dimethylphenol	**160**		19	6.6	ug/L		08/08/16 15:47	08/10/16 21:23	10
Dimethyl phthalate	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 21:23	10
Di-n-butyl phthalate	9.6	U	9.6	3.7	ug/L		08/08/16 15:47	08/10/16 21:23	10
4,6-Dinitro-2-methylphenol	48	U	48	9.6	ug/L		08/08/16 15:47	08/10/16 21:23	10
2,4-Dinitrophenol	96	U	96	11	ug/L		08/08/16 15:47	08/10/16 21:23	10
2,4-Dinitrotoluene	9.6	U	9.6	1.1	ug/L		08/08/16 15:47	08/10/16 21:23	10

Client Sample ID: 1600780-MW-23

Lab Sample ID: 680-128342-8

Date Collected: 08/04/16 15:44

Matrix: Water

Date Received: 08/05/16 08:59

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,6-Dinitrotoluene	9.6	U	9.6	1.2	ug/L		08/08/16 15:47	08/10/16 21:23	10
Di-n-octyl phthalate	9.6	U	9.6	1.6	ug/L		08/08/16 15:47	08/10/16 21:23	10
Fluoranthene	1.9	U	1.9	0.96	ug/L		08/08/16 15:47	08/10/16 21:23	10
Fluorene	1.9	U	1.9	0.96	ug/L		08/08/16 15:47	08/10/16 21:23	10
Hexachlorobenzene	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 21:23	10
Hexachlorobutadiene	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 21:23	10
Hexachlorocyclopentadiene	19	U	19	4.8	ug/L		08/08/16 15:47	08/10/16 21:23	10
Hexachloroethane	9.6	U	9.6	4.8	ug/L		08/08/16 15:47	08/10/16 21:23	10
Indeno[1,2,3-cd]pyrene	1.9	U	1.9	0.96	ug/L		08/08/16 15:47	08/10/16 21:23	10
Isophorone	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 21:23	10
2-Methylnaphthalene	**65**		1.9	0.96	ug/L		08/08/16 15:47	08/10/16 21:23	10
2-Methylphenol	**150**		19	7.1	ug/L		08/08/16 15:47	08/10/16 21:23	10
2-Nitroaniline	9.6	U	9.6	1.5	ug/L		08/08/16 15:47	08/10/16 21:23	10
3-Nitroaniline	48	U	48	1.5	ug/L		08/08/16 15:47	08/10/16 21:23	10
4-Nitroaniline	48	U	48	4.8	ug/L		08/08/16 15:47	08/10/16 21:23	10
Nitrobenzene	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 21:23	10
2-Nitrophenol	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 21:23	10
4-Nitrophenol	77	U	77	38	ug/L		08/08/16 15:47	08/10/16 21:23	10
N-Nitrosodi-n-propylamine	9.6	U	9.6	1.2	ug/L		08/08/16 15:47	08/10/16 21:23	10
N-Nitrosodiphenylamine	9.6	U	9.6	3.5	ug/L		08/08/16 15:47	08/10/16 21:23	10
2,2'-oxybis[1-chloropropane]	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 21:23	10
Pentachlorophenol	48	U	48	3.8	ug/L		08/08/16 15:47	08/10/16 21:23	10
Phenanthrene	1.9	U	1.9	0.96	ug/L		08/08/16 15:47	08/10/16 21:23	10
Phenol	**100**		9.6	1.2	ug/L		08/08/16 15:47	08/10/16 21:23	10
Pyrene	1.9	U	1.9	0.96	ug/L		08/08/16 15:47	08/10/16 21:23	10
2,4,5-Trichlorophenol	9.6	U	9.6	1.1	ug/L		08/08/16 15:47	08/10/16 21:23	10
2,4,6-Trichlorophenol	9.6	U	9.6	1.6	ug/L		08/08/16 15:47	08/10/16 21:23	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*0*	*D*	*31 - 107*	*08/08/16 15:47*	*08/10/16 21:23*	*10*
2-Fluorophenol	*0*	*D*	*18 - 112*	*08/08/16 15:47*	*08/10/16 21:23*	*10*
Nitrobenzene-d5 (Surr)	*0*	*D*	*37 - 103*	*08/08/16 15:47*	*08/10/16 21:23*	*10*
Phenol-d5 (Surr)	*0*	*D*	*20 - 113*	*08/08/16 15:47*	*08/10/16 21:23*	*10*
Terphenyl-d14 (Surr)	*0*	*D*	*22 - 121*	*08/08/16 15:47*	*08/10/16 21:23*	*10*
2,4,6-Tribromophenol (Surr)	*0*	*D*	*39 - 133*	*08/08/16 15:47*	*08/10/16 21:23*	*10*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	**340**		190	63	ug/L		08/08/16 15:47	08/10/16 21:48	100
Naphthalene	**260**		19	9.6	ug/L		08/08/16 15:47	08/10/16 21:48	100

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.050	U	0.050	0.023	mg/L			08/05/16 16:53	1
Sulfate	**28**		1.0	0.40	mg/L			08/15/16 16:03	1
Chloride	**200**		5.0	2.0	mg/L			08/16/16 13:43	10
Bromide	**0.52**		0.50	0.20	mg/L			08/15/16 16:03	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128342-1

Client Sample ID: 1600780-MW-23

Lab Sample ID: 680-128342-8
Date Collected: 08/04/16 15:44
Matrix: Water
Date Received: 08/05/16 08:59

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	20	U	20	5.3	ug/L		08/08/16 10:53	08/09/16 02:55	1
Arsenic	20	U	20	6.2	ug/L		08/08/16 10:53	08/09/16 02:55	1
Beryllium	4.0	U	4.0	0.10	ug/L		08/08/16 10:53	08/09/16 02:55	1
Cadmium	5.0	U	5.0	1.0	ug/L		08/08/16 10:53	08/09/16 02:55	1
Calcium	**220000**		500	25	ug/L		08/08/16 10:53	08/09/16 02:55	1
Chromium	10	U	10	1.6	ug/L		08/08/16 10:53	08/09/16 02:55	1
Copper	20	U	20	1.8	ug/L		08/08/16 10:53	08/09/16 02:55	1
Iron	**16000**		50	17	ug/L		08/08/16 10:53	08/09/16 02:55	1
Lead	10	U	10	3.9	ug/L		08/08/16 10:53	08/09/16 02:55	1
Magnesium	**57000**		500	33	ug/L		08/08/16 10:53	08/09/16 02:55	1
Manganese	**890**		10	1.0	ug/L		08/08/16 10:53	08/09/16 02:55	1
Nickel	**4.2**	**J**	40	2.1	ug/L		08/08/16 10:53	08/09/16 02:55	1
Potassium	**2200**		1000	17	ug/L		08/08/16 10:53	08/09/16 02:55	1
Selenium	20	U	20	9.9	ug/L		08/08/16 10:53	08/09/16 02:55	1
Silver	10	U	10	0.60	ug/L		08/08/16 10:53	08/09/16 02:55	1
Sodium	**100000**		10000	4800	ug/L		08/08/16 10:53	08/17/16 23:59	10
Thallium	25	U	25	6.0	ug/L		08/08/16 10:53	08/09/16 02:55	1
Zinc	20	U	20	7.0	ug/L		08/08/16 10:53	08/09/16 02:55	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.080	ug/L		08/09/16 12:28	08/10/16 16:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**670**		5.0	5.0	mg/L			08/15/16 19:22	1
Bicarbonate Alkalinity as CaCO3	**670**		5.0	5.0	mg/L			08/15/16 19:22	1
Ammonia	**0.15**	**J**	0.25	0.10	mg/L			08/16/16 10:21	1
Phosphorus	**0.12**		0.10	0.041	mg/L		08/16/16 09:35	08/17/16 11:08	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**1200**		10	10	mg/L			08/09/16 11:54	1
Sulfide	**2.4**		1.0	1.0	mg/L			08/11/16 07:50	1

Client Sample ID: 1600780-MW-25

Lab Sample ID: 680-128342-9
Date Collected: 08/04/16 15:57
Matrix: Water
Date Received: 08/05/16 08:59

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	7.0	ug/L			08/11/16 10:50	1
Benzene	1.0	U	1.0	0.43	ug/L			08/11/16 10:50	1
Bromobenzene	1.0	U	1.0	0.50	ug/L			08/11/16 10:50	1
Bromochloromethane	1.0	U	1.0	0.45	ug/L			08/11/16 10:50	1
Bromodichloromethane	1.0	U	1.0	0.44	ug/L			08/11/16 10:50	1
Bromoform	1.0	U	1.0	0.43	ug/L			08/11/16 10:50	1
Bromomethane	5.0	U	5.0	2.5	ug/L			08/11/16 10:50	1
2-Butanone (MEK)	10	U	10	3.4	ug/L			08/11/16 10:50	1
Carbon disulfide	2.0	U	2.0	1.0	ug/L			08/11/16 10:50	1
Carbon tetrachloride	1.0	U	1.0	0.33	ug/L			08/11/16 10:50	1
Chlorobenzene	1.0	U	1.0	0.26	ug/L			08/11/16 10:50	1

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128342-1

Client Sample ID: 1600780-MW-25
Date Collected: 08/04/16 15:57
Date Received: 08/05/16 08:59

Lab Sample ID: 680-128342-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	5.0	U	5.0	2.5	ug/L			08/11/16 10:50	1
Chloroform	1.0	U	1.0	0.50	ug/L			08/11/16 10:50	1
Chloromethane	1.0	U	1.0	0.40	ug/L			08/11/16 10:50	1
2-Chlorotoluene	1.0	U	1.0	0.27	ug/L			08/11/16 10:50	1
4-Chlorotoluene	1.0	U	1.0	0.45	ug/L			08/11/16 10:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.41	ug/L			08/11/16 10:50	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.40	ug/L			08/11/16 10:50	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			08/11/16 10:50	1
Dibromomethane	1.0	U	1.0	0.35	ug/L			08/11/16 10:50	1
Dichlorodifluoromethane	1.0	U	1.0	0.60	ug/L			08/11/16 10:50	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			08/11/16 10:50	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			08/11/16 10:50	1
1,1-Dichloroethene	1.0	U	1.0	0.36	ug/L			08/11/16 10:50	1
1,2-Dichloroethene, Total	2.0	U	2.0	0.37	ug/L			08/11/16 10:50	1
1,2-Dichloropropane	1.0	U	1.0	0.67	ug/L			08/11/16 10:50	1
1,3-Dichloropropane	1.0	U	1.0	0.34	ug/L			08/11/16 10:50	1
2,2-Dichloropropane	1.0	U	1.0	0.37	ug/L			08/11/16 10:50	1
1,1-Dichloropropene	1.0	U	1.0	0.34	ug/L			08/11/16 10:50	1
Ethylbenzene	1.0	U	1.0	0.33	ug/L			08/11/16 10:50	1
2-Hexanone	10	U	10	2.0	ug/L			08/11/16 10:50	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			08/11/16 10:50	1
Methylene Chloride	5.0	U	5.0	2.5	ug/L			08/11/16 10:50	1
4-Methyl-2-pentanone	10	U	10	2.1	ug/L			08/11/16 10:50	1
Methyl tert-butyl ether	**33**		10	0.30	ug/L			08/11/16 10:50	1
m-Xylene & p-Xylene	**0.92**	**J**	1.0	0.35	ug/L			08/11/16 10:50	1
n-Butylbenzene	1.0	U	1.0	0.47	ug/L			08/11/16 10:50	1
N-Propylbenzene	1.0	U	1.0	0.38	ug/L			08/11/16 10:50	1
o-Xylene	**0.36**	**J**	1.0	0.23	ug/L			08/11/16 10:50	1
p-Isopropyltoluene	1.0	U	1.0	0.48	ug/L			08/11/16 10:50	1
sec-Butylbenzene	1.0	U	1.0	0.42	ug/L			08/11/16 10:50	1
Styrene	1.0	U	1.0	0.27	ug/L			08/11/16 10:50	1
tert-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/11/16 10:50	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/11/16 10:50	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.62	ug/L			08/11/16 10:50	1
Tetrachloroethene	1.0	U	1.0	0.74	ug/L			08/11/16 10:50	1
Toluene	1.0	U	1.0	0.48	ug/L			08/11/16 10:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.37	ug/L			08/11/16 10:50	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.42	ug/L			08/11/16 10:50	1
1,2,3-Trichlorobenzene	5.0	U	5.0	2.5	ug/L			08/11/16 10:50	1
1,1,1-Trichloroethane	1.0	U	1.0	0.37	ug/L			08/11/16 10:50	1
1,1,2-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/11/16 10:50	1
Trichloroethene	1.0	U	1.0	0.48	ug/L			08/11/16 10:50	1
Trichlorofluoromethane	1.0	U	1.0	0.42	ug/L			08/11/16 10:50	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.47	ug/L			08/11/16 10:50	1
1,3,5-Trimethylbenzene	**0.82**	**J**	1.0	0.31	ug/L			08/11/16 10:50	1
Vinyl acetate	2.0	U	2.0	0.81	ug/L			08/11/16 10:50	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			08/11/16 10:50	1
Xylenes, Total	**1.3**		1.0	0.23	ug/L			08/11/16 10:50	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128342-1

Client Sample ID: 1600780-MW-25

Date Collected: 08/04/16 15:57
Date Received: 08/05/16 08:59

Lab Sample ID: 680-128342-9

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*08/11/16 10:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*73 - 131*		*08/11/16 10:50*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 122*		*08/11/16 10:50*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*08/11/16 10:50*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.95	U	0.95	0.48	ug/L		08/08/16 15:47	08/10/16 22:13	5
Acenaphthylene	0.95	U	0.95	0.48	ug/L		08/08/16 15:47	08/10/16 22:13	5
Acetophenone	4.8	U	4.8	1.4	ug/L		08/08/16 15:47	08/10/16 22:13	5
Anthracene	0.95	U	0.95	0.48	ug/L		08/08/16 15:47	08/10/16 22:13	5
Atrazine	19	U	19	9.5	ug/L		08/08/16 15:47	08/10/16 22:13	5
Benzaldehyde	4.8	U	4.8	0.48	ug/L		08/08/16 15:47	08/10/16 22:13	5
Benzo[a]anthracene	0.95	U	0.95	0.48	ug/L		08/08/16 15:47	08/10/16 22:13	5
Benzo[a]pyrene	0.95	U	0.95	0.48	ug/L		08/08/16 15:47	08/10/16 22:13	5
Benzo[b]fluoranthene	0.95	U	0.95	0.48	ug/L		08/08/16 15:47	08/10/16 22:13	5
Benzo[g,h,i]perylene	0.95	U	0.95	0.48	ug/L		08/08/16 15:47	08/10/16 22:13	5
Benzo[k]fluoranthene	0.95	U	0.95	0.48	ug/L		08/08/16 15:47	08/10/16 22:13	5
1,1'-Biphenyl	4.8	U	4.8	0.48	ug/L		08/08/16 15:47	08/10/16 22:13	5
Bis(2-chloroethoxy)methane	4.8	U	4.8	0.48	ug/L		08/08/16 15:47	08/10/16 22:13	5
Bis(2-chloroethyl)ether	4.8	U	4.8	0.48	ug/L		08/08/16 15:47	08/10/16 22:13	5
Bis(2-ethylhexyl) phthalate	24	U	24	9.5	ug/L		08/08/16 15:47	08/10/16 22:13	5
4-Bromophenyl phenyl ether	4.8	U	4.8	0.57	ug/L		08/08/16 15:47	08/10/16 22:13	5
Butyl benzyl phthalate	4.8	U	4.8	0.57	ug/L		08/08/16 15:47	08/10/16 22:13	5
Caprolactam	4.8	U	4.8	0.62	ug/L		08/08/16 15:47	08/10/16 22:13	5
Carbazole	9.5	U	9.5	0.48	ug/L		08/08/16 15:47	08/10/16 22:13	5
4-Chloroaniline	19	U	19	9.5	ug/L		08/08/16 15:47	08/10/16 22:13	5
4-Chloro-3-methylphenol	4.8	U	4.8	0.57	ug/L		08/08/16 15:47	08/10/16 22:13	5
2-Chloronaphthalene	4.8	U	4.8	0.48	ug/L		08/08/16 15:47	08/10/16 22:13	5
2-Chlorophenol	4.8	U	4.8	0.57	ug/L		08/08/16 15:47	08/10/16 22:13	5
4-Chlorophenyl phenyl ether	4.8	U	4.8	0.48	ug/L		08/08/16 15:47	08/10/16 22:13	5
Chrysene	0.95	U	0.95	0.21	ug/L		08/08/16 15:47	08/10/16 22:13	5
Dibenz(a,h)anthracene	0.95	U	0.95	0.48	ug/L		08/08/16 15:47	08/10/16 22:13	5
Dibenzofuran	4.8	U	4.8	0.48	ug/L		08/08/16 15:47	08/10/16 22:13	5
3,3'-Dichlorobenzidine	95	U	95	9.5	ug/L		08/08/16 15:47	08/10/16 22:13	5
2,4-Dichlorophenol	4.8	U	4.8	0.48	ug/L		08/08/16 15:47	08/10/16 22:13	5
Diethyl phthalate	4.8	U	4.8	0.52	ug/L		08/08/16 15:47	08/10/16 22:13	5
2,4-Dimethylphenol	**14**		9.5	3.3	ug/L		08/08/16 15:47	08/10/16 22:13	5
Dimethyl phthalate	4.8	U	4.8	0.48	ug/L		08/08/16 15:47	08/10/16 22:13	5
Di-n-butyl phthalate	4.8	U	4.8	1.9	ug/L		08/08/16 15:47	08/10/16 22:13	5
4,6-Dinitro-2-methylphenol	24	U	24	4.8	ug/L		08/08/16 15:47	08/10/16 22:13	5
2,4-Dinitrophenol	48	U	48	5.2	ug/L		08/08/16 15:47	08/10/16 22:13	5
2,4-Dinitrotoluene	4.8	U	4.8	0.57	ug/L		08/08/16 15:47	08/10/16 22:13	5
2,6-Dinitrotoluene	4.8	U	4.8	0.62	ug/L		08/08/16 15:47	08/10/16 22:13	5
Di-n-octyl phthalate	4.8	U	4.8	0.81	ug/L		08/08/16 15:47	08/10/16 22:13	5
Fluoranthene	0.95	U	0.95	0.48	ug/L		08/08/16 15:47	08/10/16 22:13	5
Fluorene	0.95	U	0.95	0.48	ug/L		08/08/16 15:47	08/10/16 22:13	5
Hexachlorobenzene	4.8	U	4.8	0.48	ug/L		08/08/16 15:47	08/10/16 22:13	5
Hexachlorobutadiene	4.8	U	4.8	0.48	ug/L		08/08/16 15:47	08/10/16 22:13	5
Hexachlorocyclopentadiene	9.5	U	9.5	2.4	ug/L		08/08/16 15:47	08/10/16 22:13	5

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128342-1

Client Sample ID: 1600780-MW-25

Date Collected: 08/04/16 15:57
Date Received: 08/05/16 08:59

Lab Sample ID: 680-128342-9

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	4.8	U	4.8	2.4	ug/L		08/08/16 15:47	08/10/16 22:13	5
Indeno[1,2,3-cd]pyrene	0.95	U	0.95	0.48	ug/L		08/08/16 15:47	08/10/16 22:13	5
Isophorone	4.8	U	4.8	0.48	ug/L		08/08/16 15:47	08/10/16 22:13	5
2-Methylnaphthalene	**3.8**		0.95	0.48	ug/L		08/08/16 15:47	08/10/16 22:13	5
2-Methylphenol	**9.0**	**J**	9.5	3.5	ug/L		08/08/16 15:47	08/10/16 22:13	5
3 & 4 Methylphenol	**9.8**		9.5	3.1	ug/L		08/08/16 15:47	08/10/16 22:13	5
Naphthalene	**7.0**		0.95	0.48	ug/L		08/08/16 15:47	08/10/16 22:13	5
2-Nitroaniline	4.8	U	4.8	0.76	ug/L		08/08/16 15:47	08/10/16 22:13	5
3-Nitroaniline	24	U	24	0.76	ug/L		08/08/16 15:47	08/10/16 22:13	5
4-Nitroaniline	24	U	24	2.4	ug/L		08/08/16 15:47	08/10/16 22:13	5
Nitrobenzene	4.8	U	4.8	0.48	ug/L		08/08/16 15:47	08/10/16 22:13	5
2-Nitrophenol	4.8	U	4.8	0.48	ug/L		08/08/16 15:47	08/10/16 22:13	5
4-Nitrophenol	38	U	38	19	ug/L		08/08/16 15:47	08/10/16 22:13	5
N-Nitrosodi-n-propylamine	4.8	U	4.8	0.62	ug/L		08/08/16 15:47	08/10/16 22:13	5
N-Nitrosodiphenylamine	4.8	U	4.8	1.8	ug/L		08/08/16 15:47	08/10/16 22:13	5
2,2'-oxybis[1-chloropropane]	4.8	U	4.8	0.48	ug/L		08/08/16 15:47	08/10/16 22:13	5
Pentachlorophenol	24	U	24	1.9	ug/L		08/08/16 15:47	08/10/16 22:13	5
Phenanthrene	0.95	U	0.95	0.48	ug/L		08/08/16 15:47	08/10/16 22:13	5
Phenol	**32**		4.8	0.62	ug/L		08/08/16 15:47	08/10/16 22:13	5
Pyrene	0.95	U	0.95	0.48	ug/L		08/08/16 15:47	08/10/16 22:13	5
2,4,5-Trichlorophenol	4.8	U	4.8	0.57	ug/L		08/08/16 15:47	08/10/16 22:13	5
2,4,6-Trichlorophenol	4.8	U	4.8	0.81	ug/L		08/08/16 15:47	08/10/16 22:13	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*53*		*31 - 107*	*08/08/16 15:47*	*08/10/16 22:13*	*5*
2-Fluorophenol	*50*		*18 - 112*	*08/08/16 15:47*	*08/10/16 22:13*	*5*
Nitrobenzene-d5 (Surr)	*59*		*37 - 103*	*08/08/16 15:47*	*08/10/16 22:13*	*5*
Phenol-d5 (Surr)	*55*		*20 - 113*	*08/08/16 15:47*	*08/10/16 22:13*	*5*
Terphenyl-d14 (Surr)	*52*		*22 - 121*	*08/08/16 15:47*	*08/10/16 22:13*	*5*
2,4,6-Tribromophenol (Surr)	*61*		*39 - 133*	*08/08/16 15:47*	*08/10/16 22:13*	*5*

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.050	U	0.050	0.023	mg/L			08/05/16 17:09	1
Sulfate	**170**		5.0	2.0	mg/L			08/16/16 14:36	5
Chloride	**260**		5.0	2.0	mg/L			08/16/16 14:53	10
Bromide	**0.75**		0.50	0.20	mg/L			08/15/16 16:20	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	20	U	20	5.3	ug/L		08/08/16 10:53	08/09/16 03:00	1
Arsenic	20	U	20	6.2	ug/L		08/08/16 10:53	08/09/16 03:00	1
Beryllium	4.0	U	4.0	0.10	ug/L		08/08/16 10:53	08/09/16 03:00	1
Cadmium	5.0	U	5.0	1.0	ug/L		08/08/16 10:53	08/09/16 03:00	1
Calcium	**280000**		500	25	ug/L		08/08/16 10:53	08/09/16 03:00	1
Chromium	10	U	10	1.6	ug/L		08/08/16 10:53	08/09/16 03:00	1
Copper	**3.6**	**J**	20	1.8	ug/L		08/08/16 10:53	08/09/16 03:00	1
Iron	**240**		50	17	ug/L		08/08/16 10:53	08/09/16 03:00	1
Lead	**3.9**	**J**	10	3.9	ug/L		08/08/16 10:53	08/09/16 03:00	1
Magnesium	**57000**		500	33	ug/L		08/08/16 10:53	08/09/16 03:00	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128342-1

Client Sample ID: 1600780-MW-25

Lab Sample ID: 680-128342-9
Date Collected: 08/04/16 15:57
Matrix: Water
Date Received: 08/05/16 08:59

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**440**		10	1.0	ug/L		08/08/16 10:53	08/09/16 03:00	1
Nickel	**30**	**J**	40	2.1	ug/L		08/08/16 10:53	08/09/16 03:00	1
Potassium	**3700**		1000	17	ug/L		08/08/16 10:53	08/09/16 03:00	1
Selenium	20	U	20	9.9	ug/L		08/08/16 10:53	08/09/16 03:00	1
Silver	10	U	10	0.60	ug/L		08/08/16 10:53	08/09/16 03:00	1
Sodium	**84000**		10000	4800	ug/L		08/08/16 10:53	08/18/16 00:12	10
Thallium	25	U	25	6.0	ug/L		08/08/16 10:53	08/09/16 03:00	1
Zinc	**55**		20	7.0	ug/L		08/08/16 10:53	08/09/16 03:00	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.080	ug/L		08/09/16 12:28	08/10/16 16:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**600**		5.0	5.0	mg/L			08/15/16 18:23	1
Bicarbonate Alkalinity as CaCO3	**600**		5.0	5.0	mg/L			08/15/16 18:23	1
Ammonia	0.25	U	0.25	0.10	mg/L			08/16/16 10:21	1
Phosphorus	**0.11**		0.10	0.041	mg/L		08/16/16 09:35	08/17/16 11:06	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**1200**		20	20	mg/L			08/09/16 13:37	1
Sulfide	1.0	U	1.0	1.0	mg/L			08/11/16 07:50	1

Client Sample ID: 1600780-MW-C

Lab Sample ID: 680-128342-10
Date Collected: 08/04/16 12:50
Matrix: Water
Date Received: 08/05/16 08:59

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	500	U	500	350	ug/L			08/13/16 16:11	50
Benzene	**12000**		100	43	ug/L			08/18/16 00:37	100
Bromobenzene	50	U	50	25	ug/L			08/13/16 16:11	50
Bromochloromethane	50	U	50	23	ug/L			08/13/16 16:11	50
Bromodichloromethane	50	U	50	22	ug/L			08/13/16 16:11	50
Bromoform	50	U	50	22	ug/L			08/13/16 16:11	50
Bromomethane	250	U	250	130	ug/L			08/13/16 16:11	50
2-Butanone (MEK)	500	U	500	170	ug/L			08/13/16 16:11	50
Carbon disulfide	100	U	100	50	ug/L			08/13/16 16:11	50
Carbon tetrachloride	50	U	50	17	ug/L			08/13/16 16:11	50
Chlorobenzene	50	U	50	13	ug/L			08/13/16 16:11	50
Chloroethane	250	U	250	130	ug/L			08/13/16 16:11	50
Chloroform	50	U	50	25	ug/L			08/13/16 16:11	50
Chloromethane	50	U	50	20	ug/L			08/13/16 16:11	50
2-Chlorotoluene	50	U	50	14	ug/L			08/13/16 16:11	50
4-Chlorotoluene	50	U	50	23	ug/L			08/13/16 16:11	50
cis-1,2-Dichloroethene	50	U	50	21	ug/L			08/13/16 16:11	50
cis-1,3-Dichloropropene	50	U	50	20	ug/L			08/13/16 16:11	50
Dibromochloromethane	50	U	50	16	ug/L			08/13/16 16:11	50
Dibromomethane	50	U	50	18	ug/L			08/13/16 16:11	50
Dichlorodifluoromethane	50	U	50	30	ug/L			08/13/16 16:11	50

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128342-1

Client Sample ID: 1600780-MW-C

Date Collected: 08/04/16 12:50
Date Received: 08/05/16 08:59

Lab Sample ID: 680-128342-10

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	50	U	50	19	ug/L			08/13/16 16:11	50
1,2-Dichloroethane	50	U	50	25	ug/L			08/13/16 16:11	50
1,1-Dichloroethene	50	U	50	18	ug/L			08/13/16 16:11	50
1,2-Dichloroethene, Total	100	U	100	19	ug/L			08/13/16 16:11	50
1,2-Dichloropropane	50	U	50	34	ug/L			08/13/16 16:11	50
1,3-Dichloropropane	50	U	50	17	ug/L			08/13/16 16:11	50
2,2-Dichloropropane	50	U	50	19	ug/L			08/13/16 16:11	50
1,1-Dichloropropene	50	U	50	17	ug/L			08/13/16 16:11	50
Ethylbenzene	**3100**		50	17	ug/L			08/13/16 16:11	50
2-Hexanone	500	U	500	100	ug/L			08/13/16 16:11	50
Isopropylbenzene	**97**		50	18	ug/L			08/13/16 16:11	50
Methylene Chloride	250	U	250	130	ug/L			08/13/16 16:11	50
4-Methyl-2-pentanone	500	U	500	110	ug/L			08/13/16 16:11	50
Methyl tert-butyl ether	500	U	500	15	ug/L			08/13/16 16:11	50
m-Xylene & p-Xylene	**8600**		50	18	ug/L			08/13/16 16:11	50
n-Butylbenzene	50	U	50	24	ug/L			08/13/16 16:11	50
N-Propylbenzene	**270**		50	19	ug/L			08/13/16 16:11	50
o-Xylene	**3700**		50	12	ug/L			08/13/16 16:11	50
p-Isopropyltoluene	50	U	50	24	ug/L			08/13/16 16:11	50
sec-Butylbenzene	50	U	50	21	ug/L			08/13/16 16:11	50
Styrene	50	U	50	14	ug/L			08/13/16 16:11	50
tert-Butylbenzene	50	U	50	23	ug/L			08/13/16 16:11	50
1,1,1,2-Tetrachloroethane	50	U	50	19	ug/L			08/13/16 16:11	50
1,1,2,2-Tetrachloroethane	50	U	50	31	ug/L			08/13/16 16:11	50
Tetrachloroethene	50	U	50	37	ug/L			08/13/16 16:11	50
Toluene	**7100**		50	24	ug/L			08/13/16 16:11	50
trans-1,2-Dichloroethene	50	U	50	19	ug/L			08/13/16 16:11	50
trans-1,3-Dichloropropene	50	U	50	21	ug/L			08/13/16 16:11	50
1,2,3-Trichlorobenzene	250	U	250	130	ug/L			08/13/16 16:11	50
1,1,1-Trichloroethane	50	U	50	19	ug/L			08/13/16 16:11	50
1,1,2-Trichloroethane	50	U	50	17	ug/L			08/13/16 16:11	50
Trichloroethene	50	U	50	24	ug/L			08/13/16 16:11	50
Trichlorofluoromethane	50	U	50	21	ug/L			08/13/16 16:11	50
1,2,4-Trimethylbenzene	**2000**		50	24	ug/L			08/13/16 16:11	50
1,3,5-Trimethylbenzene	**590**		50	16	ug/L			08/13/16 16:11	50
Vinyl acetate	100	U	100	41	ug/L			08/13/16 16:11	50
Vinyl chloride	50	U	50	25	ug/L			08/13/16 16:11	50
Xylenes, Total	**12000**		50	12	ug/L			08/13/16 16:11	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*08/13/16 16:11*	*50*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*08/18/16 00:37*	*100*
Dibromofluoromethane (Surr)	*97*		*80 - 122*		*08/13/16 16:11*	*50*
Dibromofluoromethane (Surr)	*109*		*80 - 122*		*08/18/16 00:37*	*100*
1,2-Dichloroethane-d4 (Surr)	*101*		*73 - 131*		*08/13/16 16:11*	*50*
1,2-Dichloroethane-d4 (Surr)	*109*		*73 - 131*		*08/18/16 00:37*	*100*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/13/16 16:11*	*50*
Toluene-d8 (Surr)	*102*		*80 - 120*		*08/18/16 00:37*	*100*

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128342-1

Client Sample ID: 1600780-MW-C

Date Collected: 08/04/16 12:50
Date Received: 08/05/16 08:59

Lab Sample ID: 680-128342-10

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1.9	U	1.9	0.96	ug/L		08/08/16 15:47	08/10/16 22:37	10
Acenaphthylene	1.9	U	1.9	0.96	ug/L		08/08/16 15:47	08/10/16 22:37	10
Acetophenone	**27**		9.6	2.9	ug/L		08/08/16 15:47	08/10/16 22:37	10
Anthracene	1.9	U	1.9	0.96	ug/L		08/08/16 15:47	08/10/16 22:37	10
Atrazine	38	U	38	19	ug/L		08/08/16 15:47	08/10/16 22:37	10
Benzaldehyde	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 22:37	10
Benzo[a]anthracene	1.9	U	1.9	0.96	ug/L		08/08/16 15:47	08/10/16 22:37	10
Benzo[a]pyrene	1.9	U	1.9	0.96	ug/L		08/08/16 15:47	08/10/16 22:37	10
Benzo[b]fluoranthene	1.9	U	1.9	0.96	ug/L		08/08/16 15:47	08/10/16 22:37	10
Benzo[g,h,i]perylene	1.9	U	1.9	0.96	ug/L		08/08/16 15:47	08/10/16 22:37	10
Benzo[k]fluoranthene	1.9	U	1.9	0.96	ug/L		08/08/16 15:47	08/10/16 22:37	10
1,1'-Biphenyl	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 22:37	10
Bis(2-chloroethoxy)methane	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 22:37	10
Bis(2-chloroethyl)ether	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 22:37	10
Bis(2-ethylhexyl) phthalate	48	U	48	19	ug/L		08/08/16 15:47	08/10/16 22:37	10
4-Bromophenyl phenyl ether	9.6	U	9.6	1.2	ug/L		08/08/16 15:47	08/10/16 22:37	10
Butyl benzyl phthalate	9.6	U	9.6	1.2	ug/L		08/08/16 15:47	08/10/16 22:37	10
Caprolactam	9.6	U	9.6	1.2	ug/L		08/08/16 15:47	08/10/16 22:37	10
Carbazole	19	U	19	0.96	ug/L		08/08/16 15:47	08/10/16 22:37	10
4-Chloroaniline	38	U	38	19	ug/L		08/08/16 15:47	08/10/16 22:37	10
4-Chloro-3-methylphenol	9.6	U	9.6	1.2	ug/L		08/08/16 15:47	08/10/16 22:37	10
2-Chloronaphthalene	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 22:37	10
2-Chlorophenol	9.6	U	9.6	1.2	ug/L		08/08/16 15:47	08/10/16 22:37	10
4-Chlorophenyl phenyl ether	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 22:37	10
Chrysene	1.9	U	1.9	0.43	ug/L		08/08/16 15:47	08/10/16 22:37	10
Dibenz(a,h)anthracene	1.9	U	1.9	0.96	ug/L		08/08/16 15:47	08/10/16 22:37	10
Dibenzofuran	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 22:37	10
3,3'-Dichlorobenzidine	190	U	190	19	ug/L		08/08/16 15:47	08/10/16 22:37	10
2,4-Dichlorophenol	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 22:37	10
Diethyl phthalate	9.6	U	9.6	1.1	ug/L		08/08/16 15:47	08/10/16 22:37	10
2,4-Dimethylphenol	**170**		19	6.6	ug/L		08/08/16 15:47	08/10/16 22:37	10
Dimethyl phthalate	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 22:37	10
Di-n-butyl phthalate	9.6	U	9.6	3.7	ug/L		08/08/16 15:47	08/10/16 22:37	10
4,6-Dinitro-2-methylphenol	48	U	48	9.6	ug/L		08/08/16 15:47	08/10/16 22:37	10
2,4-Dinitrophenol	96	U	96	11	ug/L		08/08/16 15:47	08/10/16 22:37	10
2,4-Dinitrotoluene	9.6	U	9.6	1.2	ug/L		08/08/16 15:47	08/10/16 22:37	10
2,6-Dinitrotoluene	9.6	U	9.6	1.2	ug/L		08/08/16 15:47	08/10/16 22:37	10
Di-n-octyl phthalate	9.6	U	9.6	1.6	ug/L		08/08/16 15:47	08/10/16 22:37	10
Fluoranthene	1.9	U	1.9	0.96	ug/L		08/08/16 15:47	08/10/16 22:37	10
Fluorene	1.9	U	1.9	0.96	ug/L		08/08/16 15:47	08/10/16 22:37	10
Hexachlorobenzene	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 22:37	10
Hexachlorobutadiene	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 22:37	10
Hexachlorocyclopentadiene	19	U	19	4.8	ug/L		08/08/16 15:47	08/10/16 22:37	10
Hexachloroethane	9.6	U	9.6	4.8	ug/L		08/08/16 15:47	08/10/16 22:37	10
Indeno[1,2,3-cd]pyrene	1.9	U	1.9	0.96	ug/L		08/08/16 15:47	08/10/16 22:37	10
Isophorone	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 22:37	10
2-Methylnaphthalene	**67**		1.9	0.96	ug/L		08/08/16 15:47	08/10/16 22:37	10
2-Methylphenol	**130**		19	7.1	ug/L		08/08/16 15:47	08/10/16 22:37	10
2-Nitroaniline	9.6	U	9.6	1.5	ug/L		08/08/16 15:47	08/10/16 22:37	10

Client Sample ID: 1600780-MW-C

Lab Sample ID: 680-128342-10

Date Collected: 08/04/16 12:50

Matrix: Water

Date Received: 08/05/16 08:59

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	48	U	48	1.5	ug/L		08/08/16 15:47	08/10/16 22:37	10
4-Nitroaniline	48	U	48	4.8	ug/L		08/08/16 15:47	08/10/16 22:37	10
Nitrobenzene	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 22:37	10
2-Nitrophenol	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 22:37	10
4-Nitrophenol	77	U	77	38	ug/L		08/08/16 15:47	08/10/16 22:37	10
N-Nitrosodi-n-propylamine	9.6	U	9.6	1.2	ug/L		08/08/16 15:47	08/10/16 22:37	10
N-Nitrosodiphenylamine	9.6	U	9.6	3.6	ug/L		08/08/16 15:47	08/10/16 22:37	10
2,2'-oxybis[1-chloropropane]	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 22:37	10
Pentachlorophenol	48	U	48	3.8	ug/L		08/08/16 15:47	08/10/16 22:37	10
Phenanthrene	1.9	U	1.9	0.96	ug/L		08/08/16 15:47	08/10/16 22:37	10
Phenol	**75**		9.6	1.2	ug/L		08/08/16 15:47	08/10/16 22:37	10
Pyrene	1.9	U	1.9	0.96	ug/L		08/08/16 15:47	08/10/16 22:37	10
2,4,5-Trichlorophenol	9.6	U	9.6	1.2	ug/L		08/08/16 15:47	08/10/16 22:37	10
2,4,6-Trichlorophenol	9.6	U	9.6	1.6	ug/L		08/08/16 15:47	08/10/16 22:37	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*0*	*D*	*31 - 107*	*08/08/16 15:47*	*08/10/16 22:37*	*10*
2-Fluorophenol	*0*	*D*	*18 - 112*	*08/08/16 15:47*	*08/10/16 22:37*	*10*
Nitrobenzene-d5 (Surr)	*0*	*D*	*37 - 103*	*08/08/16 15:47*	*08/10/16 22:37*	*10*
Phenol-d5 (Surr)	*0*	*D*	*20 - 113*	*08/08/16 15:47*	*08/10/16 22:37*	*10*
Terphenyl-d14 (Surr)	*0*	*D*	*22 - 121*	*08/08/16 15:47*	*08/10/16 22:37*	*10*
2,4,6-Tribromophenol (Surr)	*0*	*D*	*39 - 133*	*08/08/16 15:47*	*08/10/16 22:37*	*10*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	**230**		190	63	ug/L		08/08/16 15:47	08/10/16 23:02	100
Naphthalene	**250**		19	9.6	ug/L		08/08/16 15:47	08/10/16 23:02	100

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1.9	U	1.9	0.96	ug/L		08/08/16 15:47	08/10/16 23:26	10
Acenaphthylene	1.9	U	1.9	0.96	ug/L		08/08/16 15:47	08/10/16 23:26	10
Acetophenone	9.6	U	9.6	2.9	ug/L		08/08/16 15:47	08/10/16 23:26	10
Anthracene	1.9	U	1.9	0.96	ug/L		08/08/16 15:47	08/10/16 23:26	10
Atrazine	38	U	38	19	ug/L		08/08/16 15:47	08/10/16 23:26	10
Benzaldehyde	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 23:26	10
Benzo[a]anthracene	1.9	U	1.9	0.96	ug/L		08/08/16 15:47	08/10/16 23:26	10
Benzo[a]pyrene	1.9	U	1.9	0.96	ug/L		08/08/16 15:47	08/10/16 23:26	10
Benzo[b]fluoranthene	1.9	U	1.9	0.96	ug/L		08/08/16 15:47	08/10/16 23:26	10
Benzo[g,h,i]perylene	1.9	U	1.9	0.96	ug/L		08/08/16 15:47	08/10/16 23:26	10
Benzo[k]fluoranthene	1.9	U	1.9	0.96	ug/L		08/08/16 15:47	08/10/16 23:26	10
1,1'-Biphenyl	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 23:26	10
Bis(2-chloroethoxy)methane	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 23:26	10
Bis(2-chloroethyl)ether	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 23:26	10
Bis(2-ethylhexyl) phthalate	48	U	48	19	ug/L		08/08/16 15:47	08/10/16 23:26	10
4-Bromophenyl phenyl ether	9.6	U	9.6	1.1	ug/L		08/08/16 15:47	08/10/16 23:26	10
Butyl benzyl phthalate	9.6	U	9.6	1.1	ug/L		08/08/16 15:47	08/10/16 23:26	10
Caprolactam	9.6	U	9.6	1.2	ug/L		08/08/16 15:47	08/10/16 23:26	10
Carbazole	19	U	19	0.96	ug/L		08/08/16 15:47	08/10/16 23:26	10
4-Chloroaniline	38	U	38	19	ug/L		08/08/16 15:47	08/10/16 23:26	10

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128342-1

Client Sample ID: 1600780-MW-C
Date Collected: 08/04/16 12:50
Date Received: 08/05/16 08:59

Lab Sample ID: 680-128342-10
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloro-3-methylphenol	9.6	U	9.6	1.1	ug/L		08/08/16 15:47	08/10/16 23:26	10
2-Chloronaphthalene	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 23:26	10
2-Chlorophenol	9.6	U	9.6	1.1	ug/L		08/08/16 15:47	08/10/16 23:26	10
4-Chlorophenyl phenyl ether	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 23:26	10
Chrysene	1.9	U	1.9	0.43	ug/L		08/08/16 15:47	08/10/16 23:26	10
Dibenz(a,h)anthracene	1.9	U	1.9	0.96	ug/L		08/08/16 15:47	08/10/16 23:26	10
Dibenzofuran	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 23:26	10
3,3'-Dichlorobenzidine	190	U	190	19	ug/L		08/08/16 15:47	08/10/16 23:26	10
2,4-Dichlorophenol	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 23:26	10
Diethyl phthalate	9.6	U	9.6	1.1	ug/L		08/08/16 15:47	08/10/16 23:26	10
Dimethyl phthalate	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 23:26	10
Di-n-butyl phthalate	9.6	U	9.6	3.7	ug/L		08/08/16 15:47	08/10/16 23:26	10
4,6-Dinitro-2-methylphenol	48	U	48	9.6	ug/L		08/08/16 15:47	08/10/16 23:26	10
2,4-Dinitrophenol	96	U	96	11	ug/L		08/08/16 15:47	08/10/16 23:26	10
2,4-Dinitrotoluene	9.6	U	9.6	1.1	ug/L		08/08/16 15:47	08/10/16 23:26	10
2,6-Dinitrotoluene	9.6	U	9.6	1.2	ug/L		08/08/16 15:47	08/10/16 23:26	10
Di-n-octyl phthalate	9.6	U	9.6	1.6	ug/L		08/08/16 15:47	08/10/16 23:26	10
Fluoranthene	1.9	U	1.9	0.96	ug/L		08/08/16 15:47	08/10/16 23:26	10
Fluorene	1.9	U	1.9	0.96	ug/L		08/08/16 15:47	08/10/16 23:26	10
Hexachlorobenzene	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 23:26	10
Hexachlorobutadiene	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 23:26	10
Hexachlorocyclopentadiene	19	U	19	4.8	ug/L		08/08/16 15:47	08/10/16 23:26	10
Hexachloroethane	9.6	U	9.6	4.8	ug/L		08/08/16 15:47	08/10/16 23:26	10
Indeno[1,2,3-cd]pyrene	1.9	U	1.9	0.96	ug/L		08/08/16 15:47	08/10/16 23:26	10
Isophorone	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 23:26	10
2-Methylnaphthalene	**36**		1.9	0.96	ug/L		08/08/16 15:47	08/10/16 23:26	10
2-Methylphenol	**150**		19	7.1	ug/L		08/08/16 15:47	08/10/16 23:26	10
Naphthalene	**180**		1.9	0.96	ug/L		08/08/16 15:47	08/10/16 23:26	10
2-Nitroaniline	9.6	U	9.6	1.5	ug/L		08/08/16 15:47	08/10/16 23:26	10
3-Nitroaniline	48	U	48	1.5	ug/L		08/08/16 15:47	08/10/16 23:26	10
4-Nitroaniline	48	U	48	4.8	ug/L		08/08/16 15:47	08/10/16 23:26	10
Nitrobenzene	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 23:26	10
2-Nitrophenol	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 23:26	10
4-Nitrophenol	76	U	76	38	ug/L		08/08/16 15:47	08/10/16 23:26	10
N-Nitrosodi-n-propylamine	9.6	U	9.6	1.2	ug/L		08/08/16 15:47	08/10/16 23:26	10
N-Nitrosodiphenylamine	9.6	U	9.6	3.5	ug/L		08/08/16 15:47	08/10/16 23:26	10
2,2'-oxybis[1-chloropropane]	9.6	U	9.6	0.96	ug/L		08/08/16 15:47	08/10/16 23:26	10
Pentachlorophenol	48	U	48	3.8	ug/L		08/08/16 15:47	08/10/16 23:26	10
Phenanthrene	1.9	U	1.9	0.96	ug/L		08/08/16 15:47	08/10/16 23:26	10
Phenol	**91**		9.6	1.2	ug/L		08/08/16 15:47	08/10/16 23:26	10
Pyrene	1.9	U	1.9	0.96	ug/L		08/08/16 15:47	08/10/16 23:26	10
2,4,5-Trichlorophenol	9.6	U	9.6	1.1	ug/L		08/08/16 15:47	08/10/16 23:26	10
2,4,6-Trichlorophenol	9.6	U	9.6	1.6	ug/L		08/08/16 15:47	08/10/16 23:26	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*0*	*D*	*31 - 107*	*08/08/16 15:47*	*08/10/16 23:26*	*10*
2-Fluorophenol	*0*	*D*	*18 - 112*	*08/08/16 15:47*	*08/10/16 23:26*	*10*
Nitrobenzene-d5 (Surr)	*0*	*D*	*37 - 103*	*08/08/16 15:47*	*08/10/16 23:26*	*10*
Phenol-d5 (Surr)	*0*	*D*	*20 - 113*	*08/08/16 15:47*	*08/10/16 23:26*	*10*
Terphenyl-d14 (Surr)	*0*	*D*	*22 - 121*	*08/08/16 15:47*	*08/10/16 23:26*	*10*

Client Sample ID: 1600780-MW-C

Lab Sample ID: 680-128342-10

Date Collected: 08/04/16 12:50

Matrix: Water

Date Received: 08/05/16 08:59

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - Dissolved (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*0*	*D*	*39 - 133*	*08/08/16 15:47*	*08/10/16 23:26*	*10*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - Dissolved - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	**230**		190	66	ug/L		08/08/16 15:47	08/10/16 23:51	100
3 & 4 Methylphenol	**310**		190	63	ug/L		08/08/16 15:47	08/10/16 23:51	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*0*	*D*	*31 - 107*	*08/08/16 15:47*	*08/10/16 23:51*	*100*
2-Fluorophenol	*0*	*D*	*18 - 112*	*08/08/16 15:47*	*08/10/16 23:51*	*100*
Nitrobenzene-d5 (Surr)	*0*	*D*	*37 - 103*	*08/08/16 15:47*	*08/10/16 23:51*	*100*
Phenol-d5 (Surr)	*0*	*D*	*20 - 113*	*08/08/16 15:47*	*08/10/16 23:51*	*100*
Terphenyl-d14 (Surr)	*0*	*D*	*22 - 121*	*08/08/16 15:47*	*08/10/16 23:51*	*100*
2,4,6-Tribromophenol (Surr)	*0*	*D*	*39 - 133*	*08/08/16 15:47*	*08/10/16 23:51*	*100*

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.11**		0.050	0.023	mg/L			08/05/16 17:26	1
Sulfate	1.0	U	1.0	0.40	mg/L			08/15/16 16:38	1
Chloride	**880**		25	10	mg/L			08/16/16 15:10	50
Bromide	**1.2**		0.50	0.20	mg/L			08/15/16 16:38	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	20	U	20	5.3	ug/L		08/08/16 10:53	08/09/16 03:04	1
Arsenic	**17**	**J**	20	6.2	ug/L		08/08/16 10:53	08/09/16 03:04	1
Beryllium	4.0	U	4.0	0.10	ug/L		08/08/16 10:53	08/09/16 03:04	1
Cadmium	5.0	U	5.0	1.0	ug/L		08/08/16 10:53	08/09/16 03:04	1
Calcium	**330000**		500	25	ug/L		08/08/16 10:53	08/09/16 03:04	1
Chromium	10	U	10	1.6	ug/L		08/08/16 10:53	08/09/16 03:04	1
Copper	20	U	20	1.8	ug/L		08/08/16 10:53	08/09/16 03:04	1
Iron	**23000**		50	17	ug/L		08/08/16 10:53	08/09/16 03:04	1
Lead	10	U	10	3.9	ug/L		08/08/16 10:53	08/09/16 03:04	1
Magnesium	**77000**		500	33	ug/L		08/08/16 10:53	08/09/16 03:04	1
Manganese	**4300**		10	1.0	ug/L		08/08/16 10:53	08/09/16 03:04	1
Nickel	**7.1**	**J**	40	2.1	ug/L		08/08/16 10:53	08/09/16 03:04	1
Potassium	**1000**		1000	17	ug/L		08/08/16 10:53	08/09/16 03:04	1
Selenium	20	U	20	9.9	ug/L		08/08/16 10:53	08/09/16 03:04	1
Silver	10	U	10	0.60	ug/L		08/08/16 10:53	08/09/16 03:04	1
Sodium	**210000**		10000	4800	ug/L		08/08/16 10:53	08/18/16 00:16	10
Thallium	25	U	25	6.0	ug/L		08/08/16 10:53	08/09/16 03:04	1
Zinc	20	U	20	7.0	ug/L		08/08/16 10:53	08/09/16 03:04	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	20	U	20	5.3	ug/L		08/19/16 13:50	08/22/16 19:28	1
Arsenic	**21**		20	6.2	ug/L		08/19/16 13:50	08/22/16 19:28	1
Beryllium	4.0	U	4.0	0.10	ug/L		08/19/16 13:50	08/22/16 19:28	1
Cadmium	5.0	U	5.0	1.0	ug/L		08/19/16 13:50	08/22/16 19:28	1
Calcium	**350000**		500	25	ug/L		08/19/16 13:50	08/22/16 19:28	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128342-1

Client Sample ID: 1600780-MW-C

Lab Sample ID: 680-128342-10
Date Collected: 08/04/16 12:50
Matrix: Water
Date Received: 08/05/16 08:59

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	1.9	J	10	1.6	ug/L		08/19/16 13:50	08/22/16 19:28	1
Copper	20	U	20	1.8	ug/L		08/19/16 13:50	08/22/16 19:28	1
Iron	22000		50	17	ug/L		08/19/16 13:50	08/22/16 19:28	1
Lead	10	U	10	3.9	ug/L		08/19/16 13:50	08/22/16 19:28	1
Magnesium	77000		500	33	ug/L		08/19/16 13:50	08/22/16 19:28	1
Manganese	3800		10	1.0	ug/L		08/19/16 13:50	08/22/16 19:28	1
Nickel	7.7	J	40	2.1	ug/L		08/19/16 13:50	08/22/16 19:28	1
Potassium	1500		1000	17	ug/L		08/19/16 13:50	08/22/16 19:28	1
Selenium	20	U	20	9.9	ug/L		08/19/16 13:50	08/22/16 19:28	1
Silver	10	U	10	0.60	ug/L		08/19/16 13:50	08/22/16 19:28	1
Sodium	240000		1000	480	ug/L		08/19/16 13:50	08/22/16 19:28	1
Thallium	25	U	25	6.0	ug/L		08/19/16 13:50	08/22/16 19:28	1
Zinc	20	U	20	7.0	ug/L		08/19/16 13:50	08/22/16 19:28	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.080	ug/L		08/09/16 12:28	08/10/16 16:32	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.080	ug/L		08/19/16 14:20	08/22/16 11:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	370		5.0	5.0	mg/L			08/15/16 19:31	1
Bicarbonate Alkalinity as CaCO3	370		5.0	5.0	mg/L			08/15/16 19:31	1
Ammonia	0.25	U	0.25	0.10	mg/L			08/16/16 10:21	1
Phosphorus	0.11		0.10	0.041	mg/L		08/16/16 09:19	08/17/16 10:36	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	2600		20	20	mg/L			08/09/16 13:37	1
Sulfide	1.0	U	1.0	1.0	mg/L			08/11/16 07:50	1

Client Sample ID: 1600780-GSP-10

Lab Sample ID: 680-128342-11
Date Collected: 08/04/16 09:02
Matrix: Water
Date Received: 08/05/16 08:59

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	530		5.0	5.0	mg/L			08/15/16 20:13	1
Bicarbonate Alkalinity as CaCO3	520		5.0	5.0	mg/L			08/15/16 20:13	1
Ammonia	0.56		0.25	0.10	mg/L			08/16/16 10:21	1
Phosphorus	0.043	J	0.10	0.041	mg/L		08/16/16 09:35	08/17/16 11:07	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	730		10	10	mg/L			08/09/16 11:54	1
Sulfide	1.0		1.0	1.0	mg/L			08/11/16 07:50	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-445229/9
Matrix: Water
Analysis Batch: 445229

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	7.0	ug/L			08/11/16 09:07	1
Benzene	1.0	U	1.0	0.43	ug/L			08/11/16 09:07	1
Bromobenzene	1.0	U	1.0	0.50	ug/L			08/11/16 09:07	1
Bromochloromethane	1.0	U	1.0	0.45	ug/L			08/11/16 09:07	1
Bromodichloromethane	1.0	U	1.0	0.44	ug/L			08/11/16 09:07	1
Bromoform	1.0	U	1.0	0.43	ug/L			08/11/16 09:07	1
Bromomethane	5.0	U	5.0	2.5	ug/L			08/11/16 09:07	1
2-Butanone (MEK)	10	U	10	3.4	ug/L			08/11/16 09:07	1
Carbon disulfide	2.0	U	2.0	1.0	ug/L			08/11/16 09:07	1
Carbon tetrachloride	1.0	U	1.0	0.33	ug/L			08/11/16 09:07	1
Chlorobenzene	1.0	U	1.0	0.26	ug/L			08/11/16 09:07	1
Chloroethane	5.0	U	5.0	2.5	ug/L			08/11/16 09:07	1
Chloroform	1.0	U	1.0	0.50	ug/L			08/11/16 09:07	1
Chloromethane	1.0	U	1.0	0.40	ug/L			08/11/16 09:07	1
2-Chlorotoluene	1.0	U	1.0	0.27	ug/L			08/11/16 09:07	1
4-Chlorotoluene	1.0	U	1.0	0.45	ug/L			08/11/16 09:07	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.41	ug/L			08/11/16 09:07	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.40	ug/L			08/11/16 09:07	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			08/11/16 09:07	1
Dibromomethane	1.0	U	1.0	0.35	ug/L			08/11/16 09:07	1
Dichlorodifluoromethane	1.0	U	1.0	0.60	ug/L			08/11/16 09:07	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			08/11/16 09:07	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			08/11/16 09:07	1
1,1-Dichloroethene	1.0	U	1.0	0.36	ug/L			08/11/16 09:07	1
1,2-Dichloroethene, Total	2.0	U	2.0	0.37	ug/L			08/11/16 09:07	1
1,2-Dichloropropane	1.0	U	1.0	0.67	ug/L			08/11/16 09:07	1
1,3-Dichloropropane	1.0	U	1.0	0.34	ug/L			08/11/16 09:07	1
2,2-Dichloropropane	1.0	U	1.0	0.37	ug/L			08/11/16 09:07	1
1,1-Dichloropropene	1.0	U	1.0	0.34	ug/L			08/11/16 09:07	1
Ethylbenzene	1.0	U	1.0	0.33	ug/L			08/11/16 09:07	1
2-Hexanone	10	U	10	2.0	ug/L			08/11/16 09:07	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			08/11/16 09:07	1
Methylene Chloride	5.0	U	5.0	2.5	ug/L			08/11/16 09:07	1
4-Methyl-2-pentanone	10	U	10	2.1	ug/L			08/11/16 09:07	1
Methyl tert-butyl ether	10	U	10	0.30	ug/L			08/11/16 09:07	1
m-Xylene & p-Xylene	1.0	U	1.0	0.35	ug/L			08/11/16 09:07	1
n-Butylbenzene	1.0	U	1.0	0.47	ug/L			08/11/16 09:07	1
N-Propylbenzene	1.0	U	1.0	0.38	ug/L			08/11/16 09:07	1
o-Xylene	1.0	U	1.0	0.23	ug/L			08/11/16 09:07	1
p-Isopropyltoluene	1.0	U	1.0	0.48	ug/L			08/11/16 09:07	1
sec-Butylbenzene	1.0	U	1.0	0.42	ug/L			08/11/16 09:07	1
Styrene	1.0	U	1.0	0.27	ug/L			08/11/16 09:07	1
tert-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/11/16 09:07	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/11/16 09:07	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.62	ug/L			08/11/16 09:07	1
Tetrachloroethene	1.0	U	1.0	0.74	ug/L			08/11/16 09:07	1
Toluene	1.0	U	1.0	0.48	ug/L			08/11/16 09:07	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.37	ug/L			08/11/16 09:07	1

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

Lab Sample ID: MB 680-445229/9
Matrix: Water
Analysis Batch: 445229

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	1.0	U	1.0	0.42	ug/L			08/11/16 09:07	1
1,2,3-Trichlorobenzene	5.0	U	5.0	2.5	ug/L			08/11/16 09:07	1
1,1,1-Trichloroethane	1.0	U	1.0	0.37	ug/L			08/11/16 09:07	1
1,1,2-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/11/16 09:07	1
Trichloroethene	1.0	U	1.0	0.48	ug/L			08/11/16 09:07	1
Trichlorofluoromethane	1.0	U	1.0	0.42	ug/L			08/11/16 09:07	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.47	ug/L			08/11/16 09:07	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.31	ug/L			08/11/16 09:07	1
Vinyl acetate	2.0	U	2.0	0.81	ug/L			08/11/16 09:07	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			08/11/16 09:07	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			08/11/16 09:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*08/11/16 09:07*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 122*		*08/11/16 09:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*73 - 131*		*08/11/16 09:07*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/11/16 09:07*	*1*

Lab Sample ID: LCS 680-445229/4
Matrix: Water
Analysis Batch: 445229

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	272		ug/L		109	68 - 132
Benzene	50.0	48.6		ug/L		97	80 - 120
Bromobenzene	50.0	50.9		ug/L		102	71 - 124
Bromochloromethane	50.0	49.0		ug/L		98	80 - 120
Bromodichloromethane	50.0	48.2		ug/L		96	80 - 120
Bromoform	50.0	51.6		ug/L		103	52 - 122
Bromomethane	50.0	44.1		ug/L		88	43 - 146
2-Butanone (MEK)	250	230		ug/L		92	79 - 125
Carbon disulfide	50.0	52.9		ug/L		106	77 - 129
Carbon tetrachloride	50.0	47.4		ug/L		95	67 - 125
Chlorobenzene	50.0	48.7		ug/L		97	80 - 120
Chloroethane	50.0	53.0		ug/L		106	48 - 145
Chloroform	50.0	49.5		ug/L		99	80 - 120
Chloromethane	50.0	45.6		ug/L		91	76 - 149
2-Chlorotoluene	50.0	48.5		ug/L		97	80 - 120
4-Chlorotoluene	50.0	47.8		ug/L		96	80 - 120
cis-1,2-Dichloroethene	50.0	49.1		ug/L		98	80 - 120
cis-1,3-Dichloropropene	50.0	49.5		ug/L		99	80 - 129
Dibromochloromethane	50.0	48.7		ug/L		97	68 - 120
Dibromomethane	50.0	49.0		ug/L		98	80 - 120
Dichlorodifluoromethane	50.0	38.2		ug/L		76	70 - 137
1,1-Dichloroethane	50.0	50.2		ug/L		100	80 - 120
1,2-Dichloroethane	50.0	46.5		ug/L		93	72 - 128
1,1-Dichloroethene	50.0	56.5		ug/L		113	80 - 120
1,2-Dichloroethene, Total	100	99.2		ug/L		99	80 - 120

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

Lab Sample ID: LCS 680-445229/4
Matrix: Water
Analysis Batch: 445229

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	50.0	50.1		ug/L		100	80 - 120
1,3-Dichloropropane	50.0	49.9		ug/L		100	80 - 120
2,2-Dichloropropane	50.0	52.3		ug/L		105	80 - 135
1,1-Dichloropropene	50.0	48.5		ug/L		97	80 - 120
Ethylbenzene	50.0	48.7		ug/L		97	80 - 120
2-Hexanone	250	253		ug/L		101	80 - 131
Isopropylbenzene	50.0	50.4		ug/L		101	79 - 126
Methylene Chloride	50.0	48.4		ug/L		97	80 - 120
4-Methyl-2-pentanone	250	258		ug/L		103	80 - 134
Methyl tert-butyl ether	50.0	53.9		ug/L		108	80 - 122
m-Xylene & p-Xylene	50.0	49.2		ug/L		98	80 - 120
n-Butylbenzene	50.0	45.5		ug/L		91	75 - 132
N-Propylbenzene	50.0	48.4		ug/L		97	80 - 125
o-Xylene	50.0	50.5		ug/L		101	80 - 120
p-Isopropyltoluene	50.0	47.7		ug/L		95	80 - 120
sec-Butylbenzene	50.0	48.9		ug/L		98	80 - 120
Styrene	50.0	51.0		ug/L		102	80 - 126
tert-Butylbenzene	50.0	50.2		ug/L		100	80 - 120
1,1,1,2-Tetrachloroethane	50.0	56.3		ug/L		113	73 - 124
1,1,2,2-Tetrachloroethane	50.0	50.5		ug/L		101	76 - 126
Tetrachloroethene	50.0	48.4		ug/L		97	71 - 123
Toluene	50.0	48.3		ug/L		97	80 - 120
trans-1,2-Dichloroethene	50.0	50.2		ug/L		100	80 - 120
trans-1,3-Dichloropropene	50.0	49.0		ug/L		98	80 - 128
1,2,3-Trichlorobenzene	50.0	52.8		ug/L		106	70 - 125
1,1,1-Trichloroethane	50.0	52.5		ug/L		105	80 - 120
1,1,2-Trichloroethane	50.0	49.7		ug/L		99	80 - 120
Trichloroethene	50.0	51.5		ug/L		103	80 - 120
Trichlorofluoromethane	50.0	47.0		ug/L		94	58 - 127
1,2,4-Trimethylbenzene	50.0	49.6		ug/L		99	80 - 120
1,3,5-Trimethylbenzene	50.0	49.7		ug/L		99	80 - 120
Vinyl acetate	100	93.5		ug/L		93	74 - 156
Vinyl chloride	50.0	48.2		ug/L		96	80 - 129
Xylenes, Total	100	99.7		ug/L		100	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*91*		*73 - 131*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: LCSD 680-445229/5
Matrix: Water
Analysis Batch: 445229

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	285		ug/L		114	68 - 132	5	30
Benzene	50.0	48.2		ug/L		96	80 - 120	1	20

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

Lab Sample ID: LCSD 680-445229/5
Matrix: Water
Analysis Batch: 445229

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromobenzene	50.0	51.6		ug/L		103	71 - 124	1	20
Bromochloromethane	50.0	51.1		ug/L		102	80 - 120	4	20
Bromodichloromethane	50.0	48.5		ug/L		97	80 - 120	1	20
Bromoform	50.0	51.9		ug/L		104	52 - 122	1	20
Bromomethane	50.0	46.1		ug/L		92	43 - 146	4	20
2-Butanone (MEK)	250	253		ug/L		101	79 - 125	10	20
Carbon disulfide	50.0	51.2		ug/L		102	77 - 129	3	20
Carbon tetrachloride	50.0	45.8		ug/L		92	67 - 125	3	20
Chlorobenzene	50.0	48.8		ug/L		98	80 - 120	0	20
Chloroethane	50.0	50.7		ug/L		101	48 - 145	4	20
Chloroform	50.0	50.6		ug/L		101	80 - 120	2	20
Chloromethane	50.0	47.6		ug/L		95	76 - 149	4	30
2-Chlorotoluene	50.0	47.9		ug/L		96	80 - 120	1	20
4-Chlorotoluene	50.0	47.6		ug/L		95	80 - 120	0	20
cis-1,2-Dichloroethene	50.0	48.9		ug/L		98	80 - 120	0	20
cis-1,3-Dichloropropene	50.0	50.4		ug/L		101	80 - 129	2	20
Dibromochloromethane	50.0	49.7		ug/L		99	68 - 120	2	20
Dibromomethane	50.0	51.2		ug/L		102	80 - 120	4	20
Dichlorodifluoromethane	50.0	35.8		ug/L		72	70 - 137	7	40
1,1-Dichloroethane	50.0	50.3		ug/L		101	80 - 120	0	20
1,2-Dichloroethane	50.0	47.8		ug/L		96	72 - 128	3	50
1,1-Dichloroethene	50.0	51.8		ug/L		104	80 - 120	9	20
1,2-Dichloroethene, Total	100	99.7		ug/L		100	80 - 120	0	20
1,2-Dichloropropane	50.0	50.8		ug/L		102	80 - 120	1	20
1,3-Dichloropropane	50.0	51.5		ug/L		103	80 - 120	3	20
2,2-Dichloropropane	50.0	51.6		ug/L		103	80 - 135	1	20
1,1-Dichloropropene	50.0	47.6		ug/L		95	80 - 120	2	20
Ethylbenzene	50.0	47.6		ug/L		95	80 - 120	2	20
2-Hexanone	250	271		ug/L		108	80 - 131	7	20
Isopropylbenzene	50.0	49.5		ug/L		99	79 - 126	2	20
Methylene Chloride	50.0	49.7		ug/L		99	80 - 120	3	20
4-Methyl-2-pentanone	250	274		ug/L		110	80 - 134	6	20
Methyl tert-butyl ether	50.0	56.1		ug/L		112	80 - 122	4	20
m-Xylene & p-Xylene	50.0	48.4		ug/L		97	80 - 120	2	20
n-Butylbenzene	50.0	44.7		ug/L		89	75 - 132	2	20
N-Propylbenzene	50.0	47.7		ug/L		95	80 - 125	2	20
o-Xylene	50.0	50.1		ug/L		100	80 - 120	1	30
p-Isopropyltoluene	50.0	47.1		ug/L		94	80 - 120	1	20
sec-Butylbenzene	50.0	47.6		ug/L		95	80 - 120	3	20
Styrene	50.0	51.0		ug/L		102	80 - 126	0	20
tert-Butylbenzene	50.0	49.2		ug/L		98	80 - 120	2	20
1,1,1,2-Tetrachloroethane	50.0	55.6		ug/L		111	73 - 124	1	20
1,1,2,2-Tetrachloroethane	50.0	52.2		ug/L		104	76 - 126	3	20
Tetrachloroethene	50.0	47.0		ug/L		94	71 - 123	3	20
Toluene	50.0	48.3		ug/L		97	80 - 120	0	20
trans-1,2-Dichloroethene	50.0	50.8		ug/L		102	80 - 120	1	20
trans-1,3-Dichloropropene	50.0	50.3		ug/L		101	80 - 128	3	30
1,2,3-Trichlorobenzene	50.0	54.9		ug/L		110	70 - 125	4	20

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

Lab Sample ID: LCSD 680-445229/5
Matrix: Water
Analysis Batch: 445229

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	50.8		ug/L		102	80 - 120	3	20
1,1,2-Trichloroethane	50.0	51.3		ug/L		103	80 - 120	3	20
Trichloroethene	50.0	50.5		ug/L		101	80 - 120	2	20
Trichlorofluoromethane	50.0	44.9		ug/L		90	58 - 127	5	20
1,2,4-Trimethylbenzene	50.0	49.3		ug/L		99	80 - 120	1	20
1,3,5-Trimethylbenzene	50.0	49.3		ug/L		99	80 - 120	1	20
Vinyl acetate	100	96.5		ug/L		96	74 - 156	3	20
Vinyl chloride	50.0	45.5		ug/L		91	80 - 129	6	20
Xylenes, Total	100	98.5		ug/L		99	80 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*96*		*73 - 131*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: MB 680-445481/9
Matrix: Water
Analysis Batch: 445481

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	7.0	ug/L			08/12/16 14:49	1
Benzene	1.0	U	1.0	0.43	ug/L			08/12/16 14:49	1
Bromobenzene	1.0	U	1.0	0.50	ug/L			08/12/16 14:49	1
Bromochloromethane	1.0	U	1.0	0.45	ug/L			08/12/16 14:49	1
Bromodichloromethane	1.0	U	1.0	0.44	ug/L			08/12/16 14:49	1
Bromoform	1.0	U	1.0	0.43	ug/L			08/12/16 14:49	1
Bromomethane	5.0	U	5.0	2.5	ug/L			08/12/16 14:49	1
2-Butanone (MEK)	10	U	10	3.4	ug/L			08/12/16 14:49	1
Carbon disulfide	2.0	U	2.0	1.0	ug/L			08/12/16 14:49	1
Carbon tetrachloride	1.0	U	1.0	0.33	ug/L			08/12/16 14:49	1
Chlorobenzene	1.0	U	1.0	0.26	ug/L			08/12/16 14:49	1
Chloroethane	5.0	U	5.0	2.5	ug/L			08/12/16 14:49	1
Chloroform	1.0	U	1.0	0.50	ug/L			08/12/16 14:49	1
Chloromethane	1.0	U	1.0	0.40	ug/L			08/12/16 14:49	1
2-Chlorotoluene	1.0	U	1.0	0.27	ug/L			08/12/16 14:49	1
4-Chlorotoluene	1.0	U	1.0	0.45	ug/L			08/12/16 14:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.41	ug/L			08/12/16 14:49	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.40	ug/L			08/12/16 14:49	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			08/12/16 14:49	1
Dibromomethane	1.0	U	1.0	0.35	ug/L			08/12/16 14:49	1
Dichlorodifluoromethane	1.0	U	1.0	0.60	ug/L			08/12/16 14:49	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			08/12/16 14:49	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			08/12/16 14:49	1
1,1-Dichloroethene	1.0	U	1.0	0.36	ug/L			08/12/16 14:49	1
1,2-Dichloroethene, Total	2.0	U	2.0	0.37	ug/L			08/12/16 14:49	1
1,2-Dichloropropane	1.0	U	1.0	0.67	ug/L			08/12/16 14:49	1
1,3-Dichloropropane	1.0	U	1.0	0.34	ug/L			08/12/16 14:49	1

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

Lab Sample ID: MB 680-445481/9
Matrix: Water
Analysis Batch: 445481

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	1.0	U	1.0	0.37	ug/L			08/12/16 14:49	1
1,1-Dichloropropene	1.0	U	1.0	0.34	ug/L			08/12/16 14:49	1
Ethylbenzene	1.0	U	1.0	0.33	ug/L			08/12/16 14:49	1
2-Hexanone	10	U	10	2.0	ug/L			08/12/16 14:49	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			08/12/16 14:49	1
Methylene Chloride	5.0	U	5.0	2.5	ug/L			08/12/16 14:49	1
4-Methyl-2-pentanone	10	U	10	2.1	ug/L			08/12/16 14:49	1
Methyl tert-butyl ether	10	U	10	0.30	ug/L			08/12/16 14:49	1
m-Xylene & p-Xylene	1.0	U	1.0	0.35	ug/L			08/12/16 14:49	1
n-Butylbenzene	1.0	U	1.0	0.47	ug/L			08/12/16 14:49	1
N-Propylbenzene	1.0	U	1.0	0.38	ug/L			08/12/16 14:49	1
o-Xylene	1.0	U	1.0	0.23	ug/L			08/12/16 14:49	1
p-Isopropyltoluene	1.0	U	1.0	0.48	ug/L			08/12/16 14:49	1
sec-Butylbenzene	1.0	U	1.0	0.42	ug/L			08/12/16 14:49	1
Styrene	1.0	U	1.0	0.27	ug/L			08/12/16 14:49	1
tert-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/12/16 14:49	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/12/16 14:49	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.62	ug/L			08/12/16 14:49	1
Tetrachloroethene	1.0	U	1.0	0.74	ug/L			08/12/16 14:49	1
Toluene	1.0	U	1.0	0.48	ug/L			08/12/16 14:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.37	ug/L			08/12/16 14:49	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.42	ug/L			08/12/16 14:49	1
1,2,3-Trichlorobenzene	5.0	U	5.0	2.5	ug/L			08/12/16 14:49	1
1,1,1-Trichloroethane	1.0	U	1.0	0.37	ug/L			08/12/16 14:49	1
1,1,2-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/12/16 14:49	1
Trichloroethene	1.0	U	1.0	0.48	ug/L			08/12/16 14:49	1
Trichlorofluoromethane	1.0	U	1.0	0.42	ug/L			08/12/16 14:49	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.47	ug/L			08/12/16 14:49	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.31	ug/L			08/12/16 14:49	1
Vinyl acetate	2.0	U	2.0	0.81	ug/L			08/12/16 14:49	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			08/12/16 14:49	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			08/12/16 14:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*08/12/16 14:49*	*1*
Dibromofluoromethane (Surr)	*92*		*80 - 122*		*08/12/16 14:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*73 - 131*		*08/12/16 14:49*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*08/12/16 14:49*	*1*

Lab Sample ID: LCS 680-445481/4
Matrix: Water
Analysis Batch: 445481

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	316		ug/L		126	68 - 132
Benzene	50.0	49.2		ug/L		98	80 - 120
Bromobenzene	50.0	45.6		ug/L		91	71 - 124
Bromochloromethane	50.0	48.2		ug/L		96	80 - 120

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

Lab Sample ID: LCS 680-445481/4
Matrix: Water
Analysis Batch: 445481

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	50.0	48.7		ug/L		97	80 - 120
Bromoform	50.0	51.6		ug/L		103	52 - 122
Bromomethane	50.0	37.9		ug/L		76	43 - 146
2-Butanone (MEK)	250	291		ug/L		116	79 - 125
Carbon disulfide	50.0	50.8		ug/L		102	77 - 129
Carbon tetrachloride	50.0	50.1		ug/L		100	67 - 125
Chlorobenzene	50.0	46.2		ug/L		92	80 - 120
Chloroethane	50.0	45.2		ug/L		90	48 - 145
Chloroform	50.0	49.6		ug/L		99	80 - 120
Chloromethane	50.0	50.4		ug/L		101	76 - 149
2-Chlorotoluene	50.0	46.3		ug/L		93	80 - 120
4-Chlorotoluene	50.0	45.2		ug/L		90	80 - 120
cis-1,2-Dichloroethene	50.0	53.2		ug/L		106	80 - 120
cis-1,3-Dichloropropene	50.0	52.2		ug/L		104	80 - 129
Dibromochloromethane	50.0	48.7		ug/L		97	68 - 120
Dibromomethane	50.0	48.4		ug/L		97	80 - 120
Dichlorodifluoromethane	50.0	44.6		ug/L		89	70 - 137
1,1-Dichloroethane	50.0	49.8		ug/L		100	80 - 120
1,2-Dichloroethane	50.0	47.7		ug/L		95	72 - 128
1,1-Dichloroethene	50.0	52.0		ug/L		104	80 - 120
1,2-Dichloroethene, Total	100	102		ug/L		102	80 - 120
1,2-Dichloropropane	50.0	53.1		ug/L		106	80 - 120
1,3-Dichloropropane	50.0	48.2		ug/L		96	80 - 120
2,2-Dichloropropane	50.0	57.4		ug/L		115	80 - 135
1,1-Dichloropropene	50.0	49.5		ug/L		99	80 - 120
Ethylbenzene	50.0	49.1		ug/L		98	80 - 120
2-Hexanone	250	287		ug/L		115	80 - 131
Isopropylbenzene	50.0	50.7		ug/L		101	79 - 126
Methylene Chloride	50.0	52.4		ug/L		105	80 - 120
4-Methyl-2-pentanone	250	289		ug/L		116	80 - 134
Methyl tert-butyl ether	50.0	49.6		ug/L		99	80 - 122
m-Xylene & p-Xylene	50.0	49.0		ug/L		98	80 - 120
n-Butylbenzene	50.0	52.3		ug/L		105	75 - 132
N-Propylbenzene	50.0	49.1		ug/L		98	80 - 125
o-Xylene	50.0	47.8		ug/L		96	80 - 120
p-Isopropyltoluene	50.0	52.7		ug/L		105	80 - 120
sec-Butylbenzene	50.0	49.0		ug/L		98	80 - 120
Styrene	50.0	49.3		ug/L		99	80 - 126
tert-Butylbenzene	50.0	48.1		ug/L		96	80 - 120
1,1,1,2-Tetrachloroethane	50.0	48.1		ug/L		96	73 - 124
1,1,2,2-Tetrachloroethane	50.0	48.2		ug/L		96	76 - 126
Tetrachloroethene	50.0	48.2		ug/L		96	71 - 123
Toluene	50.0	49.6		ug/L		99	80 - 120
trans-1,2-Dichloroethene	50.0	48.6		ug/L		97	80 - 120
trans-1,3-Dichloropropene	50.0	50.4		ug/L		101	80 - 128
1,2,3-Trichlorobenzene	50.0	48.0		ug/L		96	70 - 125
1,1,1-Trichloroethane	50.0	50.7		ug/L		101	80 - 120
1,1,2-Trichloroethane	50.0	47.1		ug/L		94	80 - 120

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

Lab Sample ID: LCS 680-445481/4
Matrix: Water
Analysis Batch: 445481

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	50.0	49.9		ug/L		100	80 - 120
Trichlorofluoromethane	50.0	57.2		ug/L		114	58 - 127
1,2,4-Trimethylbenzene	50.0	48.0		ug/L		96	80 - 120
1,3,5-Trimethylbenzene	50.0	48.9		ug/L		98	80 - 120
Vinyl acetate	100	118		ug/L		118	74 - 156
Vinyl chloride	50.0	49.1		ug/L		98	80 - 129
Xylenes, Total	100	96.8		ug/L		97	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*97*		*73 - 131*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: LCSD 680-445481/5
Matrix: Water
Analysis Batch: 445481

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	306		ug/L		123	68 - 132	3	30
Benzene	50.0	48.1		ug/L		96	80 - 120	2	20
Bromobenzene	50.0	44.3		ug/L		89	71 - 124	3	20
Bromochloromethane	50.0	46.4		ug/L		93	80 - 120	4	20
Bromodichloromethane	50.0	47.4		ug/L		95	80 - 120	3	20
Bromoform	50.0	51.4		ug/L		103	52 - 122	0	20
Bromomethane	50.0	42.5		ug/L		85	43 - 146	12	20
2-Butanone (MEK)	250	288		ug/L		115	79 - 125	1	20
Carbon disulfide	50.0	50.5		ug/L		101	77 - 129	1	20
Carbon tetrachloride	50.0	47.8		ug/L		96	67 - 125	5	20
Chlorobenzene	50.0	45.3		ug/L		91	80 - 120	2	20
Chloroethane	50.0	43.9		ug/L		88	48 - 145	3	20
Chloroform	50.0	47.7		ug/L		95	80 - 120	4	20
Chloromethane	50.0	45.9		ug/L		92	76 - 149	9	30
2-Chlorotoluene	50.0	45.2		ug/L		90	80 - 120	2	20
4-Chlorotoluene	50.0	44.5		ug/L		89	80 - 120	2	20
cis-1,2-Dichloroethene	50.0	51.0		ug/L		102	80 - 120	4	20
cis-1,3-Dichloropropene	50.0	50.5		ug/L		101	80 - 129	3	20
Dibromochloromethane	50.0	47.1		ug/L		94	68 - 120	3	20
Dibromomethane	50.0	48.7		ug/L		97	80 - 120	1	20
Dichlorodifluoromethane	50.0	41.8		ug/L		84	70 - 137	6	40
1,1-Dichloroethane	50.0	47.8		ug/L		96	80 - 120	4	20
1,2-Dichloroethane	50.0	46.1		ug/L		92	72 - 128	3	50
1,1-Dichloroethene	50.0	51.5		ug/L		103	80 - 120	1	20
1,2-Dichloroethene, Total	100	98.5		ug/L		98	80 - 120	3	20
1,2-Dichloropropane	50.0	50.5		ug/L		101	80 - 120	5	20
1,3-Dichloropropane	50.0	47.0		ug/L		94	80 - 120	3	20
2,2-Dichloropropane	50.0	53.2		ug/L		106	80 - 135	8	20
1,1-Dichloropropene	50.0	47.7		ug/L		95	80 - 120	4	20

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

Lab Sample ID: LCSD 680-445481/5
Matrix: Water
Analysis Batch: 445481

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	50.0	48.1		ug/L		96	80 - 120	2	20
2-Hexanone	250	285		ug/L		114	80 - 131	1	20
Isopropylbenzene	50.0	48.9		ug/L		98	79 - 126	4	20
Methylene Chloride	50.0	51.2		ug/L		102	80 - 120	2	20
4-Methyl-2-pentanone	250	285		ug/L		114	80 - 134	2	20
Methyl tert-butyl ether	50.0	48.3		ug/L		97	80 - 122	3	20
m-Xylene & p-Xylene	50.0	47.4		ug/L		95	80 - 120	3	20
n-Butylbenzene	50.0	50.3		ug/L		101	75 - 132	4	20
N-Propylbenzene	50.0	47.8		ug/L		96	80 - 125	3	20
o-Xylene	50.0	46.6		ug/L		93	80 - 120	2	30
p-Isopropyltoluene	50.0	49.5		ug/L		99	80 - 120	6	20
sec-Butylbenzene	50.0	48.1		ug/L		96	80 - 120	2	20
Styrene	50.0	48.4		ug/L		97	80 - 126	2	20
tert-Butylbenzene	50.0	47.0		ug/L		94	80 - 120	2	20
1,1,1,2-Tetrachloroethane	50.0	47.1		ug/L		94	73 - 124	2	20
1,1,2,2-Tetrachloroethane	50.0	48.8		ug/L		98	76 - 126	1	20
Tetrachloroethene	50.0	46.5		ug/L		93	71 - 123	4	20
Toluene	50.0	48.6		ug/L		97	80 - 120	2	20
trans-1,2-Dichloroethene	50.0	47.4		ug/L		95	80 - 120	2	20
trans-1,3-Dichloropropene	50.0	49.3		ug/L		99	80 - 128	2	30
1,2,3-Trichlorobenzene	50.0	47.0		ug/L		94	70 - 125	2	20
1,1,1-Trichloroethane	50.0	48.5		ug/L		97	80 - 120	5	20
1,1,2-Trichloroethane	50.0	46.5		ug/L		93	80 - 120	1	20
Trichloroethene	50.0	47.1		ug/L		94	80 - 120	6	20
Trichlorofluoromethane	50.0	56.1		ug/L		112	58 - 127	2	20
1,2,4-Trimethylbenzene	50.0	47.0		ug/L		94	80 - 120	2	20
1,3,5-Trimethylbenzene	50.0	46.9		ug/L		94	80 - 120	4	20
Vinyl acetate	100	116		ug/L		116	74 - 156	2	20
Vinyl chloride	50.0	47.6		ug/L		95	80 - 129	3	20
Xylenes, Total	100	94.0		ug/L		94	80 - 120	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*96*		*73 - 131*
Toluene-d8 (Surr)	*95*		*80 - 120*

Lab Sample ID: MB 680-445597/9
Matrix: Water
Analysis Batch: 445597

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	7.0	ug/L			08/13/16 12:49	1
Benzene	1.0	U	1.0	0.43	ug/L			08/13/16 12:49	1
Bromobenzene	1.0	U	1.0	0.50	ug/L			08/13/16 12:49	1
Bromochloromethane	1.0	U	1.0	0.45	ug/L			08/13/16 12:49	1
Bromodichloromethane	1.0	U	1.0	0.44	ug/L			08/13/16 12:49	1
Bromoform	1.0	U	1.0	0.43	ug/L			08/13/16 12:49	1

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

Lab Sample ID: MB 680-445597/9
Matrix: Water
Analysis Batch: 445597

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	5.0	U	5.0	2.5	ug/L			08/13/16 12:49	1
2-Butanone (MEK)	10	U	10	3.4	ug/L			08/13/16 12:49	1
Carbon disulfide	2.0	U	2.0	1.0	ug/L			08/13/16 12:49	1
Carbon tetrachloride	1.0	U	1.0	0.33	ug/L			08/13/16 12:49	1
Chlorobenzene	1.0	U	1.0	0.26	ug/L			08/13/16 12:49	1
Chloroethane	5.0	U	5.0	2.5	ug/L			08/13/16 12:49	1
Chloroform	1.0	U	1.0	0.50	ug/L			08/13/16 12:49	1
Chloromethane	1.0	U	1.0	0.40	ug/L			08/13/16 12:49	1
2-Chlorotoluene	1.0	U	1.0	0.27	ug/L			08/13/16 12:49	1
4-Chlorotoluene	1.0	U	1.0	0.45	ug/L			08/13/16 12:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.41	ug/L			08/13/16 12:49	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.40	ug/L			08/13/16 12:49	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			08/13/16 12:49	1
Dibromomethane	1.0	U	1.0	0.35	ug/L			08/13/16 12:49	1
Dichlorodifluoromethane	1.0	U	1.0	0.60	ug/L			08/13/16 12:49	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			08/13/16 12:49	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			08/13/16 12:49	1
1,1-Dichloroethene	1.0	U	1.0	0.36	ug/L			08/13/16 12:49	1
1,2-Dichloroethene, Total	2.0	U	2.0	0.37	ug/L			08/13/16 12:49	1
1,2-Dichloropropane	1.0	U	1.0	0.67	ug/L			08/13/16 12:49	1
1,3-Dichloropropane	1.0	U	1.0	0.34	ug/L			08/13/16 12:49	1
2,2-Dichloropropane	1.0	U	1.0	0.37	ug/L			08/13/16 12:49	1
1,1-Dichloropropene	1.0	U	1.0	0.34	ug/L			08/13/16 12:49	1
Ethylbenzene	1.0	U	1.0	0.33	ug/L			08/13/16 12:49	1
2-Hexanone	10	U	10	2.0	ug/L			08/13/16 12:49	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			08/13/16 12:49	1
Methylene Chloride	5.0	U	5.0	2.5	ug/L			08/13/16 12:49	1
4-Methyl-2-pentanone	10	U	10	2.1	ug/L			08/13/16 12:49	1
Methyl tert-butyl ether	10	U	10	0.30	ug/L			08/13/16 12:49	1
m-Xylene & p-Xylene	1.0	U	1.0	0.35	ug/L			08/13/16 12:49	1
n-Butylbenzene	1.0	U	1.0	0.47	ug/L			08/13/16 12:49	1
N-Propylbenzene	1.0	U	1.0	0.38	ug/L			08/13/16 12:49	1
o-Xylene	1.0	U	1.0	0.23	ug/L			08/13/16 12:49	1
p-Isopropyltoluene	1.0	U	1.0	0.48	ug/L			08/13/16 12:49	1
sec-Butylbenzene	1.0	U	1.0	0.42	ug/L			08/13/16 12:49	1
Styrene	1.0	U	1.0	0.27	ug/L			08/13/16 12:49	1
tert-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/13/16 12:49	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/13/16 12:49	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.62	ug/L			08/13/16 12:49	1
Tetrachloroethene	1.0	U	1.0	0.74	ug/L			08/13/16 12:49	1
Toluene	1.0	U	1.0	0.48	ug/L			08/13/16 12:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.37	ug/L			08/13/16 12:49	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.42	ug/L			08/13/16 12:49	1
1,2,3-Trichlorobenzene	5.0	U	5.0	2.5	ug/L			08/13/16 12:49	1
1,1,1-Trichloroethane	1.0	U	1.0	0.37	ug/L			08/13/16 12:49	1
1,1,2-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/13/16 12:49	1
Trichloroethene	1.0	U	1.0	0.48	ug/L			08/13/16 12:49	1
Trichlorofluoromethane	1.0	U	1.0	0.42	ug/L			08/13/16 12:49	1

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

Lab Sample ID: MB 680-445597/9
Matrix: Water
Analysis Batch: 445597

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	1.0	U	1.0	0.47	ug/L			08/13/16 12:49	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.31	ug/L			08/13/16 12:49	1
Vinyl acetate	2.0	U	2.0	0.81	ug/L			08/13/16 12:49	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			08/13/16 12:49	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			08/13/16 12:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*		*08/13/16 12:49*	*1*
Dibromofluoromethane (Surr)	*93*		*80 - 122*		*08/13/16 12:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*73 - 131*		*08/13/16 12:49*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*08/13/16 12:49*	*1*

Lab Sample ID: LCS 680-445597/4
Matrix: Water
Analysis Batch: 445597

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	296		ug/L		119	68 - 132
Benzene	50.0	48.0		ug/L		96	80 - 120
Bromobenzene	50.0	45.3		ug/L		91	71 - 124
Bromochloromethane	50.0	45.5		ug/L		91	80 - 120
Bromodichloromethane	50.0	46.6		ug/L		93	80 - 120
Bromoform	50.0	52.1		ug/L		104	52 - 122
Bromomethane	50.0	43.3		ug/L		87	43 - 146
2-Butanone (MEK)	250	269		ug/L		107	79 - 125
Carbon disulfide	50.0	50.0		ug/L		100	77 - 129
Carbon tetrachloride	50.0	48.6		ug/L		97	67 - 125
Chlorobenzene	50.0	46.2		ug/L		92	80 - 120
Chloroethane	50.0	45.3		ug/L		91	48 - 145
Chloroform	50.0	47.1		ug/L		94	80 - 120
Chloromethane	50.0	48.2		ug/L		96	76 - 149
2-Chlorotoluene	50.0	45.7		ug/L		91	80 - 120
4-Chlorotoluene	50.0	44.4		ug/L		89	80 - 120
cis-1,2-Dichloroethene	50.0	50.0		ug/L		100	80 - 120
cis-1,3-Dichloropropene	50.0	49.3		ug/L		99	80 - 129
Dibromochloromethane	50.0	47.0		ug/L		94	68 - 120
Dibromomethane	50.0	45.6		ug/L		91	80 - 120
Dichlorodifluoromethane	50.0	42.8		ug/L		86	70 - 137
1,1-Dichloroethane	50.0	47.7		ug/L		95	80 - 120
1,2-Dichloroethane	50.0	45.0		ug/L		90	72 - 128
1,1-Dichloroethene	50.0	52.8		ug/L		106	80 - 120
1,2-Dichloroethene, Total	100	97.7		ug/L		98	80 - 120
1,2-Dichloropropane	50.0	49.4		ug/L		99	80 - 120
1,3-Dichloropropane	50.0	45.5		ug/L		91	80 - 120
2,2-Dichloropropane	50.0	55.8		ug/L		112	80 - 135
1,1-Dichloropropene	50.0	49.0		ug/L		98	80 - 120
Ethylbenzene	50.0	48.6		ug/L		97	80 - 120
2-Hexanone	250	270		ug/L		108	80 - 131

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

Lab Sample ID: LCS 680-445597/4
Matrix: Water
Analysis Batch: 445597

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	50.0	49.5		ug/L		99	79 - 126
Methylene Chloride	50.0	48.1		ug/L		96	80 - 120
4-Methyl-2-pentanone	250	267		ug/L		107	80 - 134
Methyl tert-butyl ether	50.0	46.8		ug/L		94	80 - 122
m-Xylene & p-Xylene	50.0	47.8		ug/L		96	80 - 120
n-Butylbenzene	50.0	47.3		ug/L		95	75 - 132
N-Propylbenzene	50.0	46.9		ug/L		94	80 - 125
o-Xylene	50.0	46.9		ug/L		94	80 - 120
p-Isopropyltoluene	50.0	47.8		ug/L		96	80 - 120
sec-Butylbenzene	50.0	45.4		ug/L		91	80 - 120
Styrene	50.0	48.5		ug/L		97	80 - 126
tert-Butylbenzene	50.0	45.3		ug/L		91	80 - 120
1,1,1,2-Tetrachloroethane	50.0	47.9		ug/L		96	73 - 124
1,1,2,2-Tetrachloroethane	50.0	47.4		ug/L		95	76 - 126
Tetrachloroethene	50.0	47.8		ug/L		96	71 - 123
Toluene	50.0	48.1		ug/L		96	80 - 120
trans-1,2-Dichloroethene	50.0	47.8		ug/L		96	80 - 120
trans-1,3-Dichloropropene	50.0	47.5		ug/L		95	80 - 128
1,2,3-Trichlorobenzene	50.0	45.6		ug/L		91	70 - 125
1,1,1-Trichloroethane	50.0	49.3		ug/L		99	80 - 120
1,1,2-Trichloroethane	50.0	44.1		ug/L		88	80 - 120
Trichloroethene	50.0	48.9		ug/L		98	80 - 120
Trichlorofluoromethane	50.0	49.0		ug/L		98	58 - 127
1,2,4-Trimethylbenzene	50.0	45.7		ug/L		91	80 - 120
1,3,5-Trimethylbenzene	50.0	46.3		ug/L		93	80 - 120
Vinyl acetate	100	110		ug/L		110	74 - 156
Vinyl chloride	50.0	49.8		ug/L		100	80 - 129
Xylenes, Total	100	94.7		ug/L		95	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*93*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*91*		*73 - 131*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: LCSD 680-445597/5
Matrix: Water
Analysis Batch: 445597

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	299		ug/L		120	68 - 132	1	30
Benzene	50.0	49.4		ug/L		99	80 - 120	3	20
Bromobenzene	50.0	46.2		ug/L		92	71 - 124	2	20
Bromochloromethane	50.0	47.1		ug/L		94	80 - 120	4	20
Bromodichloromethane	50.0	47.4		ug/L		95	80 - 120	2	20
Bromoform	50.0	53.7		ug/L		107	52 - 122	3	20
Bromomethane	50.0	44.9		ug/L		90	43 - 146	4	20
2-Butanone (MEK)	250	290		ug/L		116	79 - 125	8	20

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

Lab Sample ID: LCSD 680-445597/5
Matrix: Water
Analysis Batch: 445597

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon disulfide	50.0	50.6		ug/L		101	77 - 129	1	20
Carbon tetrachloride	50.0	49.5		ug/L		99	67 - 125	2	20
Chlorobenzene	50.0	46.9		ug/L		94	80 - 120	1	20
Chloroethane	50.0	47.7		ug/L		95	48 - 145	5	20
Chloroform	50.0	48.5		ug/L		97	80 - 120	3	20
Chloromethane	50.0	50.4		ug/L		101	76 - 149	4	30
2-Chlorotoluene	50.0	46.5		ug/L		93	80 - 120	2	20
4-Chlorotoluene	50.0	44.7		ug/L		89	80 - 120	1	20
cis-1,2-Dichloroethene	50.0	50.7		ug/L		101	80 - 120	1	20
cis-1,3-Dichloropropene	50.0	50.8		ug/L		102	80 - 129	3	20
Dibromochloromethane	50.0	48.5		ug/L		97	68 - 120	3	20
Dibromomethane	50.0	47.9		ug/L		96	80 - 120	5	20
Dichlorodifluoromethane	50.0	43.8		ug/L		88	70 - 137	2	40
1,1-Dichloroethane	50.0	48.1		ug/L		96	80 - 120	1	20
1,2-Dichloroethane	50.0	45.4		ug/L		91	72 - 128	1	50
1,1-Dichloroethene	50.0	53.2		ug/L		106	80 - 120	1	20
1,2-Dichloroethene, Total	100	99.8		ug/L		100	80 - 120	2	20
1,2-Dichloropropane	50.0	52.1		ug/L		104	80 - 120	5	20
1,3-Dichloropropane	50.0	47.1		ug/L		94	80 - 120	3	20
2,2-Dichloropropane	50.0	56.0		ug/L		112	80 - 135	0	20
1,1-Dichloropropene	50.0	48.8		ug/L		98	80 - 120	1	20
Ethylbenzene	50.0	50.1		ug/L		100	80 - 120	3	20
2-Hexanone	250	286		ug/L		114	80 - 131	6	20
Isopropylbenzene	50.0	50.4		ug/L		101	79 - 126	2	20
Methylene Chloride	50.0	53.4		ug/L		107	80 - 120	11	20
4-Methyl-2-pentanone	250	282		ug/L		113	80 - 134	5	20
Methyl tert-butyl ether	50.0	48.4		ug/L		97	80 - 122	3	20
m-Xylene & p-Xylene	50.0	49.6		ug/L		99	80 - 120	4	20
n-Butylbenzene	50.0	48.8		ug/L		98	75 - 132	3	20
N-Propylbenzene	50.0	48.0		ug/L		96	80 - 125	2	20
o-Xylene	50.0	48.4		ug/L		97	80 - 120	3	30
p-Isopropyltoluene	50.0	49.4		ug/L		99	80 - 120	3	20
sec-Butylbenzene	50.0	46.7		ug/L		93	80 - 120	3	20
Styrene	50.0	50.4		ug/L		101	80 - 126	4	20
tert-Butylbenzene	50.0	46.7		ug/L		93	80 - 120	3	20
1,1,1,2-Tetrachloroethane	50.0	48.4		ug/L		97	73 - 124	1	20
1,1,2,2-Tetrachloroethane	50.0	48.4		ug/L		97	76 - 126	2	20
Tetrachloroethene	50.0	48.7		ug/L		97	71 - 123	2	20
Toluene	50.0	49.7		ug/L		99	80 - 120	3	20
trans-1,2-Dichloroethene	50.0	49.1		ug/L		98	80 - 120	3	20
trans-1,3-Dichloropropene	50.0	49.7		ug/L		99	80 - 128	5	30
1,2,3-Trichlorobenzene	50.0	47.3		ug/L		95	70 - 125	4	20
1,1,1-Trichloroethane	50.0	50.1		ug/L		100	80 - 120	1	20
1,1,2-Trichloroethane	50.0	47.0		ug/L		94	80 - 120	6	20
Trichloroethene	50.0	49.8		ug/L		100	80 - 120	2	20
Trichlorofluoromethane	50.0	57.3		ug/L		115	58 - 127	16	20
1,2,4-Trimethylbenzene	50.0	47.9		ug/L		96	80 - 120	5	20
1,3,5-Trimethylbenzene	50.0	47.2		ug/L		94	80 - 120	2	20

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

Lab Sample ID: LCSD 680-445597/5
Matrix: Water
Analysis Batch: 445597

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl acetate			100	115		ug/L		115	74 - 156	5	20
Vinyl chloride			50.0	51.0		ug/L		102	80 - 129	2	20
Xylenes, Total			100	98.0		ug/L		98	80 - 120	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*94*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*95*		*73 - 131*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: 680-128342-5 MS
Matrix: Water
Analysis Batch: 445597

Client Sample ID: 1600780-MW-18 MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acetone	500	U F1	12500	15900		ug/L		127	68 - 132		
Benzene	4600		2500	7220		ug/L		103	80 - 120		
Bromobenzene	50	U	2500	2230		ug/L		89	71 - 124		
Bromochloromethane	50	U	2500	2380		ug/L		95	80 - 120		
Bromodichloromethane	50	U	2500	2370		ug/L		95	80 - 120		
Bromoform	50	U	2500	2620		ug/L		105	52 - 122		
Bromomethane	250	U	2500	1540		ug/L		62	43 - 146		
2-Butanone (MEK)	500	U F1	12500	15800	F1	ug/L		127	79 - 125		
Carbon disulfide	100	U	2500	2310		ug/L		92	77 - 129		
Carbon tetrachloride	50	U	2500	2170		ug/L		87	67 - 125		
Chlorobenzene	50	U	2500	2230		ug/L		89	80 - 120		
Chloroethane	250	U	2500	2100		ug/L		84	48 - 145		
Chloroform	50	U	2500	2370		ug/L		95	80 - 120		
Chloromethane	50	U	2500	2200		ug/L		88	76 - 149		
2-Chlorotoluene	50	U	2500	2270		ug/L		91	80 - 120		
4-Chlorotoluene	50	U	2500	2030		ug/L		81	80 - 120		
cis-1,2-Dichloroethene	50	U	2500	2400		ug/L		96	80 - 120		
cis-1,3-Dichloropropene	50	U	2500	2430		ug/L		97	80 - 129		
Dibromochloromethane	50	U	2500	2360		ug/L		94	68 - 120		
Dibromomethane	50	U	2500	2430		ug/L		97	80 - 120		
Dichlorodifluoromethane	50	U	2500	2020		ug/L		81	70 - 137		
1,1-Dichloroethane	50	U	2500	2330		ug/L		93	80 - 120		
1,2-Dichloroethane	50	U	2500	2320		ug/L		93	72 - 128		
1,1-Dichloroethene	50	U	2500	2460		ug/L		99	80 - 120		
1,2-Dichloroethene, Total	100	U	5000	4700		ug/L		94	80 - 120		
1,2-Dichloropropane	50	U	2500	2510		ug/L		100	80 - 120		
1,3-Dichloropropane	50	U	2500	2390		ug/L		95	80 - 120		
2,2-Dichloropropane	50	U	2500	2240		ug/L		90	80 - 135		
1,1-Dichloropropene	50	U	2500	2240		ug/L		89	80 - 120		
Ethylbenzene	1200		2500	3380		ug/L		86	80 - 120		
2-Hexanone	500	U	12500	15200		ug/L		122	80 - 131		
Isopropylbenzene	110		2500	2250		ug/L		86	79 - 126		
Methylene Chloride	250	U	2500	2680		ug/L		107	80 - 120		

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

Lab Sample ID: 680-128342-5 MS
Matrix: Water
Analysis Batch: 445597

Client Sample ID: 1600780-MW-18 MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Methyl-2-pentanone	500	U	12500	15000		ug/L		120	80 - 134
Methyl tert-butyl ether	500	U	2500	2490		ug/L		100	80 - 122
m-Xylene & p-Xylene	4200	F1	2500	6150	F1	ug/L		78	80 - 120
n-Butylbenzene	50	U	2500	1910		ug/L		76	75 - 132
N-Propylbenzene	330	F1	2500	2290	F1	ug/L		79	80 - 125
o-Xylene	1100		2500	3330		ug/L		90	80 - 120
p-Isopropyltoluene	50	U F1	2500	1980	F1	ug/L		79	80 - 120
sec-Butylbenzene	50	U F1	2500	1880	F1	ug/L		75	80 - 120
Styrene	50	U	2500	2370		ug/L		95	80 - 126
tert-Butylbenzene	50	U F1	2500	1940	F1	ug/L		77	80 - 120
1,1,1,2-Tetrachloroethane	50	U	2500	2310		ug/L		93	73 - 124
1,1,2,2-Tetrachloroethane	50	U	2500	2540		ug/L		102	76 - 126
Tetrachloroethene	50	U	2500	2120		ug/L		85	71 - 123
Toluene	1600	F1	2500	4570	F1	ug/L		121	80 - 120
trans-1,2-Dichloroethene	50	U	2500	2300		ug/L		92	80 - 120
trans-1,3-Dichloropropene	50	U	2500	2390		ug/L		96	80 - 128
1,2,3-Trichlorobenzene	250	U	2500	1940		ug/L		78	70 - 125
1,1,1-Trichloroethane	50	U	2500	2350		ug/L		94	80 - 120
1,1,2-Trichloroethane	50	U	2500	2360		ug/L		94	80 - 120
Trichloroethene	50	U	2500	2320		ug/L		93	80 - 120
Trichlorofluoromethane	50	U	2500	2630		ug/L		105	58 - 127
1,2,4-Trimethylbenzene	2200	F1	2500	4080	F1	ug/L		75	80 - 120
1,3,5-Trimethylbenzene	640	F1	2500	2570	F1	ug/L		77	80 - 120
Vinyl acetate	100	U	5000	5840		ug/L		117	74 - 156
Vinyl chloride	50	U	2500	2270		ug/L		91	80 - 129
Xylenes, Total	5300		5000	9480		ug/L		84	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*99*		*73 - 131*
Toluene-d8 (Surr)	*96*		*80 - 120*

Lab Sample ID: 680-128342-5 MSD
Matrix: Water
Analysis Batch: 445597

Client Sample ID: 1600780-MW-18 MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	500	U F1	12500	16900	F1	ug/L		135	68 - 132	6	30
Benzene	4600		2500	6880		ug/L		90	80 - 120	5	20
Bromobenzene	50	U	2500	2370		ug/L		95	71 - 124	6	20
Bromochloromethane	50	U	2500	2450		ug/L		98	80 - 120	3	20
Bromodichloromethane	50	U	2500	2400		ug/L		96	80 - 120	1	20
Bromoform	50	U	2500	2720		ug/L		109	52 - 122	4	20
Bromomethane	250	U	2500	1720		ug/L		69	43 - 146	11	20
2-Butanone (MEK)	500	U F1	12500	16000	F1	ug/L		128	79 - 125	1	20
Carbon disulfide	100	U	2500	2310		ug/L		92	77 - 129	0	20
Carbon tetrachloride	50	U	2500	2230		ug/L		89	67 - 125	3	20

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

Lab Sample ID: 680-128342-5 MSD
Matrix: Water
Analysis Batch: 445597

Client Sample ID: 1600780-MW-18 MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorobenzene	50	U	2500	2330		ug/L		93	80 - 120	4	20
Chloroethane	250	U	2500	2090		ug/L		84	48 - 145	0	20
Chloroform	50	U	2500	2410		ug/L		96	80 - 120	1	20
Chloromethane	50	U	2500	2150		ug/L		86	76 - 149	3	30
2-Chlorotoluene	50	U	2500	2530		ug/L		101	80 - 120	11	20
4-Chlorotoluene	50	U	2500	2270		ug/L		91	80 - 120	11	20
cis-1,2-Dichloroethene	50	U	2500	2450		ug/L		98	80 - 120	2	20
cis-1,3-Dichloropropene	50	U	2500	2500		ug/L		100	80 - 129	3	20
Dibromochloromethane	50	U	2500	2440		ug/L		97	68 - 120	3	20
Dibromomethane	50	U	2500	2480		ug/L		99	80 - 120	2	20
Dichlorodifluoromethane	50	U	2500	1980		ug/L		79	70 - 137	2	40
1,1-Dichloroethane	50	U	2500	2350		ug/L		94	80 - 120	1	20
1,2-Dichloroethane	50	U	2500	2380		ug/L		95	72 - 128	3	50
1,1-Dichloroethene	50	U	2500	2420		ug/L		97	80 - 120	2	20
1,2-Dichloroethene, Total	100	U	5000	4730		ug/L		95	80 - 120	1	20
1,2-Dichloropropane	50	U	2500	2550		ug/L		102	80 - 120	2	20
1,3-Dichloropropane	50	U	2500	2460		ug/L		98	80 - 120	3	20
2,2-Dichloropropane	50	U	2500	2200		ug/L		88	80 - 135	2	20
1,1-Dichloropropene	50	U	2500	2240		ug/L		90	80 - 120	0	20
Ethylbenzene	1200		2500	3440		ug/L		88	80 - 120	2	20
2-Hexanone	500	U	12500	15900		ug/L		127	80 - 131	5	20
Isopropylbenzene	110		2500	2480		ug/L		95	79 - 126	10	20
Methylene Chloride	250	U	2500	2620		ug/L		105	80 - 120	2	20
4-Methyl-2-pentanone	500	U	12500	15500		ug/L		124	80 - 134	3	20
Methyl tert-butyl ether	500	U	2500	2550		ug/L		102	80 - 122	3	20
m-Xylene & p-Xylene	4200	F1	2500	6100	F1	ug/L		76	80 - 120	1	20
n-Butylbenzene	50	U	2500	2130		ug/L		85	75 - 132	11	20
N-Propylbenzene	330	F1	2500	2520		ug/L		88	80 - 125	10	20
o-Xylene	1100		2500	3380		ug/L		92	80 - 120	1	30
p-Isopropyltoluene	50	U F1	2500	2210		ug/L		88	80 - 120	11	20
sec-Butylbenzene	50	U F1	2500	2140		ug/L		85	80 - 120	13	20
Styrene	50	U	2500	2500		ug/L		100	80 - 126	5	20
tert-Butylbenzene	50	U F1	2500	2180		ug/L		87	80 - 120	12	20
1,1,1,2-Tetrachloroethane	50	U	2500	2410		ug/L		97	73 - 124	4	20
1,1,2,2-Tetrachloroethane	50	U	2500	2620		ug/L		105	76 - 126	3	20
Tetrachloroethene	50	U	2500	2290		ug/L		92	71 - 123	8	20
Toluene	1600	F1	2500	3930		ug/L		95	80 - 120	15	20
trans-1,2-Dichloroethene	50	U	2500	2280		ug/L		91	80 - 120	1	20
trans-1,3-Dichloropropene	50	U	2500	2450		ug/L		98	80 - 128	3	30
1,2,3-Trichlorobenzene	250	U	2500	2270		ug/L		91	70 - 125	16	20
1,1,1-Trichloroethane	50	U	2500	2370		ug/L		95	80 - 120	1	20
1,1,2-Trichloroethane	50	U	2500	2450		ug/L		98	80 - 120	4	20
Trichloroethene	50	U	2500	2360		ug/L		94	80 - 120	2	20
Trichlorofluoromethane	50	U	2500	2530		ug/L		101	58 - 127	4	20
1,2,4-Trimethylbenzene	2200	F1	2500	4350		ug/L		85	80 - 120	6	20
1,3,5-Trimethylbenzene	640	F1	2500	2890		ug/L		90	80 - 120	12	20
Vinyl acetate	100	U	5000	6110		ug/L		122	74 - 156	5	20
Vinyl chloride	50	U	2500	2290		ug/L		91	80 - 129	1	20

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

Lab Sample ID: 680-128342-5 MSD
Matrix: Water
Analysis Batch: 445597

Client Sample ID: 1600780-MW-18 MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Xylenes, Total	5300		5000	9480		ug/L		84	80 - 120	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*100*		*73 - 131*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: MB 680-446181/9
Matrix: Water
Analysis Batch: 446181

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	7.0	ug/L			08/17/16 21:52	1
Benzene	1.0	U	1.0	0.43	ug/L			08/17/16 21:52	1
Bromobenzene	1.0	U	1.0	0.50	ug/L			08/17/16 21:52	1
Bromochloromethane	1.0	U	1.0	0.45	ug/L			08/17/16 21:52	1
Bromodichloromethane	1.0	U	1.0	0.44	ug/L			08/17/16 21:52	1
Bromoform	1.0	U	1.0	0.43	ug/L			08/17/16 21:52	1
Bromomethane	5.0	U	5.0	2.5	ug/L			08/17/16 21:52	1
2-Butanone (MEK)	10	U	10	3.4	ug/L			08/17/16 21:52	1
Carbon disulfide	2.0	U	2.0	1.0	ug/L			08/17/16 21:52	1
Carbon tetrachloride	1.0	U	1.0	0.33	ug/L			08/17/16 21:52	1
Chlorobenzene	1.0	U	1.0	0.26	ug/L			08/17/16 21:52	1
Chloroethane	5.0	U	5.0	2.5	ug/L			08/17/16 21:52	1
Chloroform	1.0	U	1.0	0.50	ug/L			08/17/16 21:52	1
Chloromethane	1.0	U	1.0	0.40	ug/L			08/17/16 21:52	1
2-Chlorotoluene	1.0	U	1.0	0.27	ug/L			08/17/16 21:52	1
4-Chlorotoluene	1.0	U	1.0	0.45	ug/L			08/17/16 21:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.41	ug/L			08/17/16 21:52	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.40	ug/L			08/17/16 21:52	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			08/17/16 21:52	1
Dibromomethane	1.0	U	1.0	0.35	ug/L			08/17/16 21:52	1
Dichlorodifluoromethane	1.0	U	1.0	0.60	ug/L			08/17/16 21:52	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			08/17/16 21:52	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			08/17/16 21:52	1
1,1-Dichloroethene	1.0	U	1.0	0.36	ug/L			08/17/16 21:52	1
1,2-Dichloroethene, Total	2.0	U	2.0	0.37	ug/L			08/17/16 21:52	1
1,2-Dichloropropane	1.0	U	1.0	0.67	ug/L			08/17/16 21:52	1
1,3-Dichloropropane	1.0	U	1.0	0.34	ug/L			08/17/16 21:52	1
2,2-Dichloropropane	1.0	U	1.0	0.37	ug/L			08/17/16 21:52	1
1,1-Dichloropropene	1.0	U	1.0	0.34	ug/L			08/17/16 21:52	1
Ethylbenzene	1.0	U	1.0	0.33	ug/L			08/17/16 21:52	1
2-Hexanone	10	U	10	2.0	ug/L			08/17/16 21:52	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			08/17/16 21:52	1
Methylene Chloride	5.0	U	5.0	2.5	ug/L			08/17/16 21:52	1
4-Methyl-2-pentanone	10	U	10	2.1	ug/L			08/17/16 21:52	1
Methyl tert-butyl ether	10	U	10	0.30	ug/L			08/17/16 21:52	1

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

Lab Sample ID: MB 680-446181/9
Matrix: Water
Analysis Batch: 446181

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	1.0	U	1.0	0.35	ug/L			08/17/16 21:52	1
n-Butylbenzene	1.0	U	1.0	0.47	ug/L			08/17/16 21:52	1
N-Propylbenzene	1.0	U	1.0	0.38	ug/L			08/17/16 21:52	1
o-Xylene	1.0	U	1.0	0.23	ug/L			08/17/16 21:52	1
p-Isopropyltoluene	1.0	U	1.0	0.48	ug/L			08/17/16 21:52	1
sec-Butylbenzene	1.0	U	1.0	0.42	ug/L			08/17/16 21:52	1
Styrene	1.0	U	1.0	0.27	ug/L			08/17/16 21:52	1
tert-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/17/16 21:52	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/17/16 21:52	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.62	ug/L			08/17/16 21:52	1
Tetrachloroethene	1.0	U	1.0	0.74	ug/L			08/17/16 21:52	1
Toluene	1.0	U	1.0	0.48	ug/L			08/17/16 21:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.37	ug/L			08/17/16 21:52	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.42	ug/L			08/17/16 21:52	1
1,2,3-Trichlorobenzene	5.0	U	5.0	2.5	ug/L			08/17/16 21:52	1
1,1,1-Trichloroethane	1.0	U	1.0	0.37	ug/L			08/17/16 21:52	1
1,1,2-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/17/16 21:52	1
Trichloroethene	1.0	U	1.0	0.48	ug/L			08/17/16 21:52	1
Trichlorofluoromethane	1.0	U	1.0	0.42	ug/L			08/17/16 21:52	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.47	ug/L			08/17/16 21:52	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.31	ug/L			08/17/16 21:52	1
Vinyl acetate	2.0	U	2.0	0.81	ug/L			08/17/16 21:52	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			08/17/16 21:52	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			08/17/16 21:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*08/17/16 21:52*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 122*		*08/17/16 21:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*73 - 131*		*08/17/16 21:52*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*08/17/16 21:52*	*1*

Lab Sample ID: LCS 680-446181/4
Matrix: Water
Analysis Batch: 446181

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	241		ug/L		96	68 - 132
Benzene	50.0	51.7		ug/L		103	80 - 120
Bromobenzene	50.0	53.0		ug/L		106	71 - 124
Bromochloromethane	50.0	53.2		ug/L		106	80 - 120
Bromodichloromethane	50.0	58.6		ug/L		117	80 - 120
Bromoform	50.0	47.9		ug/L		96	52 - 122
Bromomethane	50.0	58.9		ug/L		118	43 - 146
2-Butanone (MEK)	250	228		ug/L		91	79 - 125
Carbon disulfide	50.0	53.6		ug/L		107	77 - 129
Carbon tetrachloride	50.0	57.2		ug/L		114	67 - 125
Chlorobenzene	50.0	51.9		ug/L		104	80 - 120
Chloroethane	50.0	59.1		ug/L		118	48 - 145

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

Lab Sample ID: LCS 680-446181/4
Matrix: Water
Analysis Batch: 446181

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	50.0	54.2		ug/L		108	80 - 120
Chloromethane	50.0	50.2		ug/L		100	76 - 149
2-Chlorotoluene	50.0	52.4		ug/L		105	80 - 120
4-Chlorotoluene	50.0	52.5		ug/L		105	80 - 120
cis-1,2-Dichloroethene	50.0	55.9		ug/L		112	80 - 120
cis-1,3-Dichloropropene	50.0	61.6		ug/L		123	80 - 129
Dibromochloromethane	50.0	48.6		ug/L		97	68 - 120
Dibromomethane	50.0	53.9		ug/L		108	80 - 120
Dichlorodifluoromethane	50.0	45.6		ug/L		91	70 - 137
1,1-Dichloroethane	50.0	54.4		ug/L		109	80 - 120
1,2-Dichloroethane	50.0	54.1		ug/L		108	72 - 128
1,1-Dichloroethene	50.0	55.5		ug/L		111	80 - 120
1,2-Dichloroethene, Total	100	110		ug/L		110	80 - 120
1,2-Dichloropropane	50.0	54.0		ug/L		108	80 - 120
1,3-Dichloropropane	50.0	53.8		ug/L		108	80 - 120
2,2-Dichloropropane	50.0	67.0		ug/L		134	80 - 135
1,1-Dichloropropene	50.0	53.5		ug/L		107	80 - 120
Ethylbenzene	50.0	51.8		ug/L		104	80 - 120
2-Hexanone	250	238		ug/L		95	80 - 131
Isopropylbenzene	50.0	53.3		ug/L		107	79 - 126
Methylene Chloride	50.0	52.8		ug/L		106	80 - 120
4-Methyl-2-pentanone	250	240		ug/L		96	80 - 134
Methyl tert-butyl ether	50.0	52.6		ug/L		105	80 - 122
m-Xylene & p-Xylene	50.0	53.1		ug/L		106	80 - 120
n-Butylbenzene	50.0	54.3		ug/L		109	75 - 132
N-Propylbenzene	50.0	53.0		ug/L		106	80 - 125
o-Xylene	50.0	52.9		ug/L		106	80 - 120
p-Isopropyltoluene	50.0	52.0		ug/L		104	80 - 120
sec-Butylbenzene	50.0	51.8		ug/L		104	80 - 120
Styrene	50.0	54.2		ug/L		108	80 - 126
tert-Butylbenzene	50.0	52.1		ug/L		104	80 - 120
1,1,1,2-Tetrachloroethane	50.0	56.6		ug/L		113	73 - 124
1,1,2,2-Tetrachloroethane	50.0	50.4		ug/L		101	76 - 126
Tetrachloroethene	50.0	53.3		ug/L		107	71 - 123
Toluene	50.0	53.0		ug/L		106	80 - 120
trans-1,2-Dichloroethene	50.0	53.9		ug/L		108	80 - 120
trans-1,3-Dichloropropene	50.0	61.6		ug/L		123	80 - 128
1,2,3-Trichlorobenzene	50.0	49.1		ug/L		98	70 - 125
1,1,1-Trichloroethane	50.0	55.2		ug/L		110	80 - 120
1,1,2-Trichloroethane	50.0	52.0		ug/L		104	80 - 120
Trichloroethene	50.0	52.3		ug/L		105	80 - 120
Trichlorofluoromethane	50.0	57.4		ug/L		115	58 - 127
1,2,4-Trimethylbenzene	50.0	53.0		ug/L		106	80 - 120
1,3,5-Trimethylbenzene	50.0	52.5		ug/L		105	80 - 120
Vinyl acetate	100	132		ug/L		132	74 - 156
Vinyl chloride	50.0	54.2		ug/L		108	80 - 129
Xylenes, Total	100	106		ug/L		106	80 - 120

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

Lab Sample ID: LCS 680-446181/4
Matrix: Water
Analysis Batch: 446181

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*113*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*108*		*73 - 131*
Toluene-d8 (Surr)	*106*		*80 - 120*

Lab Sample ID: LCSD 680-446181/5
Matrix: Water
Analysis Batch: 446181

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	233		ug/L		93	68 - 132	3	30
Benzene	50.0	50.0		ug/L		100	80 - 120	3	20
Bromobenzene	50.0	51.0		ug/L		102	71 - 124	4	20
Bromochloromethane	50.0	51.1		ug/L		102	80 - 120	4	20
Bromodichloromethane	50.0	57.3		ug/L		115	80 - 120	2	20
Bromoform	50.0	46.0		ug/L		92	52 - 122	4	20
Bromomethane	50.0	58.4		ug/L		117	43 - 146	1	20
2-Butanone (MEK)	250	225		ug/L		90	79 - 125	1	20
Carbon disulfide	50.0	51.9		ug/L		104	77 - 129	3	20
Carbon tetrachloride	50.0	55.1		ug/L		110	67 - 125	4	20
Chlorobenzene	50.0	49.3		ug/L		99	80 - 120	5	20
Chloroethane	50.0	56.4		ug/L		113	48 - 145	5	20
Chloroform	50.0	52.5		ug/L		105	80 - 120	3	20
Chloromethane	50.0	46.6		ug/L		93	76 - 149	7	30
2-Chlorotoluene	50.0	50.3		ug/L		101	80 - 120	4	20
4-Chlorotoluene	50.0	51.4		ug/L		103	80 - 120	2	20
cis-1,2-Dichloroethene	50.0	53.4		ug/L		107	80 - 120	4	20
cis-1,3-Dichloropropene	50.0	59.0		ug/L		118	80 - 129	4	20
Dibromochloromethane	50.0	47.2		ug/L		94	68 - 120	3	20
Dibromomethane	50.0	51.9		ug/L		104	80 - 120	4	20
Dichlorodifluoromethane	50.0	43.8		ug/L		88	70 - 137	4	40
1,1-Dichloroethane	50.0	53.3		ug/L		107	80 - 120	2	20
1,2-Dichloroethane	50.0	52.8		ug/L		106	72 - 128	3	50
1,1-Dichloroethene	50.0	52.0		ug/L		104	80 - 120	7	20
1,2-Dichloroethene, Total	100	105		ug/L		105	80 - 120	4	20
1,2-Dichloropropane	50.0	51.9		ug/L		104	80 - 120	4	20
1,3-Dichloropropane	50.0	51.7		ug/L		103	80 - 120	4	20
2,2-Dichloropropane	50.0	63.3		ug/L		127	80 - 135	6	20
1,1-Dichloropropene	50.0	51.3		ug/L		103	80 - 120	4	20
Ethylbenzene	50.0	50.3		ug/L		101	80 - 120	3	20
2-Hexanone	250	229		ug/L		92	80 - 131	4	20
Isopropylbenzene	50.0	51.2		ug/L		102	79 - 126	4	20
Methylene Chloride	50.0	51.2		ug/L		102	80 - 120	3	20
4-Methyl-2-pentanone	250	233		ug/L		93	80 - 134	3	20
Methyl tert-butyl ether	50.0	50.2		ug/L		100	80 - 122	5	20
m-Xylene & p-Xylene	50.0	50.9		ug/L		102	80 - 120	4	20
n-Butylbenzene	50.0	53.6		ug/L		107	75 - 132	1	20
N-Propylbenzene	50.0	50.8		ug/L		102	80 - 125	4	20

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

Lab Sample ID: LCSD 680-446181/5
Matrix: Water
Analysis Batch: 446181

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
o-Xylene	50.0	50.8		ug/L		102	80 - 120	4	30
p-Isopropyltoluene	50.0	51.2		ug/L		102	80 - 120	2	20
sec-Butylbenzene	50.0	50.5		ug/L		101	80 - 120	3	20
Styrene	50.0	52.1		ug/L		104	80 - 126	4	20
tert-Butylbenzene	50.0	49.9		ug/L		100	80 - 120	4	20
1,1,1,2-Tetrachloroethane	50.0	54.5		ug/L		109	73 - 124	4	20
1,1,2,2-Tetrachloroethane	50.0	48.5		ug/L		97	76 - 126	4	20
Tetrachloroethene	50.0	52.0		ug/L		104	71 - 123	3	20
Toluene	50.0	50.6		ug/L		101	80 - 120	5	20
trans-1,2-Dichloroethene	50.0	51.6		ug/L		103	80 - 120	4	20
trans-1,3-Dichloropropene	50.0	58.7		ug/L		117	80 - 128	5	30
1,2,3-Trichlorobenzene	50.0	49.9		ug/L		100	70 - 125	2	20
1,1,1-Trichloroethane	50.0	53.4		ug/L		107	80 - 120	3	20
1,1,2-Trichloroethane	50.0	50.8		ug/L		102	80 - 120	2	20
Trichloroethene	50.0	50.7		ug/L		101	80 - 120	3	20
Trichlorofluoromethane	50.0	54.9		ug/L		110	58 - 127	4	20
1,2,4-Trimethylbenzene	50.0	51.0		ug/L		102	80 - 120	4	20
1,3,5-Trimethylbenzene	50.0	50.9		ug/L		102	80 - 120	3	20
Vinyl acetate	100	128		ug/L		128	74 - 156	3	20
Vinyl chloride	50.0	50.1		ug/L		100	80 - 129	8	20
Xylenes, Total	100	102		ug/L		102	80 - 120	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*109*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*103*		*73 - 131*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: MB 680-446183/9
Matrix: Water
Analysis Batch: 446183

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	7.0	ug/L			08/18/16 09:08	1
Benzene	1.0	U	1.0	0.43	ug/L			08/18/16 09:08	1
Bromobenzene	1.0	U	1.0	0.50	ug/L			08/18/16 09:08	1
Bromochloromethane	1.0	U	1.0	0.45	ug/L			08/18/16 09:08	1
Bromodichloromethane	1.0	U	1.0	0.44	ug/L			08/18/16 09:08	1
Bromoform	1.0	U	1.0	0.43	ug/L			08/18/16 09:08	1
Bromomethane	5.0	U	5.0	2.5	ug/L			08/18/16 09:08	1
2-Butanone (MEK)	10	U	10	3.4	ug/L			08/18/16 09:08	1
Carbon disulfide	2.0	U	2.0	1.0	ug/L			08/18/16 09:08	1
Carbon tetrachloride	1.0	U	1.0	0.33	ug/L			08/18/16 09:08	1
Chlorobenzene	1.0	U	1.0	0.26	ug/L			08/18/16 09:08	1
Chloroethane	5.0	U	5.0	2.5	ug/L			08/18/16 09:08	1
Chloroform	1.0	U	1.0	0.50	ug/L			08/18/16 09:08	1
Chloromethane	1.0	U	1.0	0.40	ug/L			08/18/16 09:08	1
2-Chlorotoluene	1.0	U	1.0	0.27	ug/L			08/18/16 09:08	1

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

Lab Sample ID: MB 680-446183/9
Matrix: Water
Analysis Batch: 446183

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	1.0	U	1.0	0.45	ug/L			08/18/16 09:08	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.41	ug/L			08/18/16 09:08	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.40	ug/L			08/18/16 09:08	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			08/18/16 09:08	1
Dibromomethane	1.0	U	1.0	0.35	ug/L			08/18/16 09:08	1
Dichlorodifluoromethane	1.0	U	1.0	0.60	ug/L			08/18/16 09:08	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			08/18/16 09:08	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			08/18/16 09:08	1
1,1-Dichloroethene	1.0	U	1.0	0.36	ug/L			08/18/16 09:08	1
1,2-Dichloroethene, Total	2.0	U	2.0	0.37	ug/L			08/18/16 09:08	1
1,2-Dichloropropane	1.0	U	1.0	0.67	ug/L			08/18/16 09:08	1
1,3-Dichloropropane	1.0	U	1.0	0.34	ug/L			08/18/16 09:08	1
2,2-Dichloropropane	1.0	U	1.0	0.37	ug/L			08/18/16 09:08	1
1,1-Dichloropropene	1.0	U	1.0	0.34	ug/L			08/18/16 09:08	1
Ethylbenzene	1.0	U	1.0	0.33	ug/L			08/18/16 09:08	1
2-Hexanone	10	U	10	2.0	ug/L			08/18/16 09:08	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			08/18/16 09:08	1
Methylene Chloride	5.0	U	5.0	2.5	ug/L			08/18/16 09:08	1
4-Methyl-2-pentanone	10	U	10	2.1	ug/L			08/18/16 09:08	1
Methyl tert-butyl ether	10	U	10	0.30	ug/L			08/18/16 09:08	1
m-Xylene & p-Xylene	1.0	U	1.0	0.35	ug/L			08/18/16 09:08	1
n-Butylbenzene	1.0	U	1.0	0.47	ug/L			08/18/16 09:08	1
N-Propylbenzene	1.0	U	1.0	0.38	ug/L			08/18/16 09:08	1
o-Xylene	1.0	U	1.0	0.23	ug/L			08/18/16 09:08	1
p-Isopropyltoluene	1.0	U	1.0	0.48	ug/L			08/18/16 09:08	1
sec-Butylbenzene	1.0	U	1.0	0.42	ug/L			08/18/16 09:08	1
Styrene	1.0	U	1.0	0.27	ug/L			08/18/16 09:08	1
tert-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/18/16 09:08	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/18/16 09:08	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.62	ug/L			08/18/16 09:08	1
Tetrachloroethene	1.0	U	1.0	0.74	ug/L			08/18/16 09:08	1
Toluene	1.0	U	1.0	0.48	ug/L			08/18/16 09:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.37	ug/L			08/18/16 09:08	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.42	ug/L			08/18/16 09:08	1
1,2,3-Trichlorobenzene	5.0	U	5.0	2.5	ug/L			08/18/16 09:08	1
1,1,1-Trichloroethane	1.0	U	1.0	0.37	ug/L			08/18/16 09:08	1
1,1,2-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/18/16 09:08	1
Trichloroethene	1.0	U	1.0	0.48	ug/L			08/18/16 09:08	1
Trichlorofluoromethane	1.0	U	1.0	0.42	ug/L			08/18/16 09:08	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.47	ug/L			08/18/16 09:08	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.31	ug/L			08/18/16 09:08	1
Vinyl acetate	2.0	U	2.0	0.81	ug/L			08/18/16 09:08	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			08/18/16 09:08	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			08/18/16 09:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*08/18/16 09:08*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 122*		*08/18/16 09:08*	*1*

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

Lab Sample ID: MB 680-446183/9
Matrix: Water
Analysis Batch: 446183

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		73 - 131		08/18/16 09:08	1
Toluene-d8 (Surr)	101		80 - 120		08/18/16 09:08	1

Lab Sample ID: LCS 680-446183/4
Matrix: Water
Analysis Batch: 446183

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	222		ug/L		89	68 - 132
Benzene	50.0	50.1		ug/L		100	80 - 120
Bromobenzene	50.0	51.5		ug/L		103	71 - 124
Bromochloromethane	50.0	51.6		ug/L		103	80 - 120
Bromodichloromethane	50.0	57.4		ug/L		115	80 - 120
Bromoform	50.0	45.7		ug/L		91	52 - 122
Bromomethane	50.0	57.0		ug/L		114	43 - 146
2-Butanone (MEK)	250	221		ug/L		88	79 - 125
Carbon disulfide	50.0	50.5		ug/L		101	77 - 129
Carbon tetrachloride	50.0	54.8		ug/L		110	67 - 125
Chlorobenzene	50.0	50.8		ug/L		102	80 - 120
Chloroethane	50.0	55.0		ug/L		110	48 - 145
Chloroform	50.0	52.7		ug/L		105	80 - 120
Chloromethane	50.0	51.4		ug/L		103	76 - 149
2-Chlorotoluene	50.0	51.6		ug/L		103	80 - 120
4-Chlorotoluene	50.0	51.8		ug/L		104	80 - 120
cis-1,2-Dichloroethene	50.0	53.8		ug/L		108	80 - 120
cis-1,3-Dichloropropene	50.0	58.9		ug/L		118	80 - 129
Dibromochloromethane	50.0	47.6		ug/L		95	68 - 120
Dibromomethane	50.0	52.1		ug/L		104	80 - 120
Dichlorodifluoromethane	50.0	45.5		ug/L		91	70 - 137
1,1-Dichloroethane	50.0	52.5		ug/L		105	80 - 120
1,2-Dichloroethane	50.0	52.7		ug/L		105	72 - 128
1,1-Dichloroethene	50.0	53.6		ug/L		107	80 - 120
1,2-Dichloroethene, Total	100	105		ug/L		105	80 - 120
1,2-Dichloropropane	50.0	52.2		ug/L		104	80 - 120
1,3-Dichloropropane	50.0	51.8		ug/L		104	80 - 120
2,2-Dichloropropane	50.0	63.9		ug/L		128	80 - 135
1,1-Dichloropropene	50.0	51.8		ug/L		104	80 - 120
Ethylbenzene	50.0	51.3		ug/L		103	80 - 120
2-Hexanone	250	226		ug/L		90	80 - 131
Isopropylbenzene	50.0	52.2		ug/L		104	79 - 126
Methylene Chloride	50.0	50.5		ug/L		101	80 - 120
4-Methyl-2-pentanone	250	228		ug/L		91	80 - 134
Methyl tert-butyl ether	50.0	50.5		ug/L		101	80 - 122
m-Xylene & p-Xylene	50.0	52.2		ug/L		104	80 - 120
n-Butylbenzene	50.0	54.4		ug/L		109	75 - 132
N-Propylbenzene	50.0	52.4		ug/L		105	80 - 125
o-Xylene	50.0	51.8		ug/L		104	80 - 120
p-Isopropyltoluene	50.0	51.4		ug/L		103	80 - 120

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

Lab Sample ID: LCS 680-446183/4
Matrix: Water
Analysis Batch: 446183

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
sec-Butylbenzene	50.0	52.2		ug/L		104	80 - 120
Styrene	50.0	52.8		ug/L		106	80 - 126
tert-Butylbenzene	50.0	50.9		ug/L		102	80 - 120
1,1,1,2-Tetrachloroethane	50.0	56.0		ug/L		112	73 - 124
1,1,2,2-Tetrachloroethane	50.0	47.9		ug/L		96	76 - 126
Tetrachloroethene	50.0	52.3		ug/L		105	71 - 123
Toluene	50.0	50.5		ug/L		101	80 - 120
trans-1,2-Dichloroethene	50.0	51.6		ug/L		103	80 - 120
trans-1,3-Dichloropropene	50.0	59.3		ug/L		119	80 - 128
1,2,3-Trichlorobenzene	50.0	47.7		ug/L		95	70 - 125
1,1,1-Trichloroethane	50.0	54.3		ug/L		109	80 - 120
1,1,2-Trichloroethane	50.0	51.0		ug/L		102	80 - 120
Trichloroethene	50.0	50.6		ug/L		101	80 - 120
Trichlorofluoromethane	50.0	55.2		ug/L		110	58 - 127
1,2,4-Trimethylbenzene	50.0	52.2		ug/L		104	80 - 120
1,3,5-Trimethylbenzene	50.0	51.7		ug/L		103	80 - 120
Vinyl acetate	100	128		ug/L		128	74 - 156
Vinyl chloride	50.0	52.0		ug/L		104	80 - 129
Xylenes, Total	100	104		ug/L		104	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*109*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*103*		*73 - 131*
Toluene-d8 (Surr)	*102*		*80 - 120*

Lab Sample ID: LCSD 680-446183/5
Matrix: Water
Analysis Batch: 446183

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	216		ug/L		87	68 - 132	2	30
Benzene	50.0	49.3		ug/L		99	80 - 120	2	20
Bromobenzene	50.0	49.2		ug/L		98	71 - 124	5	20
Bromochloromethane	50.0	51.1		ug/L		102	80 - 120	1	20
Bromodichloromethane	50.0	56.7		ug/L		113	80 - 120	1	20
Bromoform	50.0	44.7		ug/L		89	52 - 122	2	20
Bromomethane	50.0	57.8		ug/L		116	43 - 146	2	20
2-Butanone (MEK)	250	216		ug/L		87	79 - 125	2	20
Carbon disulfide	50.0	51.0		ug/L		102	77 - 129	1	20
Carbon tetrachloride	50.0	55.1		ug/L		110	67 - 125	1	20
Chlorobenzene	50.0	49.4		ug/L		99	80 - 120	3	20
Chloroethane	50.0	56.2		ug/L		112	48 - 145	2	20
Chloroform	50.0	52.4		ug/L		105	80 - 120	1	20
Chloromethane	50.0	51.4		ug/L		103	76 - 149	0	30
2-Chlorotoluene	50.0	49.8		ug/L		100	80 - 120	4	20
4-Chlorotoluene	50.0	50.2		ug/L		100	80 - 120	3	20
cis-1,2-Dichloroethene	50.0	53.4		ug/L		107	80 - 120	1	20

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

Lab Sample ID: LCSD 680-446183/5
Matrix: Water
Analysis Batch: 446183

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	50.0	59.0		ug/L		118	80 - 129	0	20
Dibromochloromethane	50.0	47.1		ug/L		94	68 - 120	1	20
Dibromomethane	50.0	51.2		ug/L		102	80 - 120	2	20
Dichlorodifluoromethane	50.0	44.7		ug/L		89	70 - 137	2	40
1,1-Dichloroethane	50.0	52.4		ug/L		105	80 - 120	0	20
1,2-Dichloroethane	50.0	52.1		ug/L		104	72 - 128	1	50
1,1-Dichloroethene	50.0	48.9		ug/L		98	80 - 120	9	20
1,2-Dichloroethene, Total	100	105		ug/L		105	80 - 120	1	20
1,2-Dichloropropane	50.0	52.5		ug/L		105	80 - 120	1	20
1,3-Dichloropropane	50.0	50.4		ug/L		101	80 - 120	3	20
2,2-Dichloropropane	50.0	63.3		ug/L		127	80 - 135	1	20
1,1-Dichloropropene	50.0	51.8		ug/L		104	80 - 120	0	20
Ethylbenzene	50.0	50.3		ug/L		101	80 - 120	2	20
2-Hexanone	250	219		ug/L		87	80 - 131	3	20
Isopropylbenzene	50.0	50.5		ug/L		101	79 - 126	3	20
Methylene Chloride	50.0	50.0		ug/L		100	80 - 120	1	20
4-Methyl-2-pentanone	250	223		ug/L		89	80 - 134	2	20
Methyl tert-butyl ether	50.0	49.6		ug/L		99	80 - 122	2	20
m-Xylene & p-Xylene	50.0	51.0		ug/L		102	80 - 120	2	20
n-Butylbenzene	50.0	55.1		ug/L		110	75 - 132	1	20
N-Propylbenzene	50.0	50.7		ug/L		101	80 - 125	3	20
o-Xylene	50.0	50.5		ug/L		101	80 - 120	2	30
p-Isopropyltoluene	50.0	52.6		ug/L		105	80 - 120	2	20
sec-Butylbenzene	50.0	48.9		ug/L		98	80 - 120	7	20
Styrene	50.0	51.5		ug/L		103	80 - 126	2	20
tert-Butylbenzene	50.0	48.5		ug/L		97	80 - 120	5	20
1,1,1,2-Tetrachloroethane	50.0	54.8		ug/L		110	73 - 124	2	20
1,1,2,2-Tetrachloroethane	50.0	46.7		ug/L		93	76 - 126	3	20
Tetrachloroethene	50.0	51.0		ug/L		102	71 - 123	3	20
Toluene	50.0	50.0		ug/L		100	80 - 120	1	20
trans-1,2-Dichloroethene	50.0	51.2		ug/L		102	80 - 120	1	20
trans-1,3-Dichloropropene	50.0	58.4		ug/L		117	80 - 128	2	30
1,2,3-Trichlorobenzene	50.0	52.2		ug/L		104	70 - 125	9	20
1,1,1-Trichloroethane	50.0	52.8		ug/L		106	80 - 120	3	20
1,1,2-Trichloroethane	50.0	50.2		ug/L		100	80 - 120	2	20
Trichloroethene	50.0	50.4		ug/L		101	80 - 120	0	20
Trichlorofluoromethane	50.0	55.6		ug/L		111	58 - 127	1	20
1,2,4-Trimethylbenzene	50.0	49.8		ug/L		100	80 - 120	5	20
1,3,5-Trimethylbenzene	50.0	50.2		ug/L		100	80 - 120	3	20
Vinyl acetate	100	126		ug/L		126	74 - 156	2	20
Vinyl chloride	50.0	51.5		ug/L		103	80 - 129	1	20
Xylenes, Total	100	102		ug/L		102	80 - 120	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*107*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*102*		*73 - 131*
Toluene-d8 (Surr)	*101*		*80 - 120*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 680-444703/18-A
Matrix: Water
Analysis Batch: 445011

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 444703

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.20	U	0.20	0.10	ug/L		08/08/16 15:47	08/09/16 16:25	1
Acenaphthylene	0.20	U	0.20	0.10	ug/L		08/08/16 15:47	08/09/16 16:25	1
Acetophenone	1.0	U	1.0	0.30	ug/L		08/08/16 15:47	08/09/16 16:25	1
Anthracene	0.20	U	0.20	0.10	ug/L		08/08/16 15:47	08/09/16 16:25	1
Atrazine	4.0	U	4.0	2.0	ug/L		08/08/16 15:47	08/09/16 16:25	1
Benzaldehyde	1.0	U	1.0	0.10	ug/L		08/08/16 15:47	08/09/16 16:25	1
Benzo[a]anthracene	0.20	U	0.20	0.10	ug/L		08/08/16 15:47	08/09/16 16:25	1
Benzo[a]pyrene	0.20	U	0.20	0.10	ug/L		08/08/16 15:47	08/09/16 16:25	1
Benzo[b]fluoranthene	0.20	U	0.20	0.10	ug/L		08/08/16 15:47	08/09/16 16:25	1
Benzo[g,h,i]perylene	0.20	U	0.20	0.10	ug/L		08/08/16 15:47	08/09/16 16:25	1
Benzo[k]fluoranthene	0.20	U	0.20	0.10	ug/L		08/08/16 15:47	08/09/16 16:25	1
1,1'-Biphenyl	1.0	U	1.0	0.10	ug/L		08/08/16 15:47	08/09/16 16:25	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.10	ug/L		08/08/16 15:47	08/09/16 16:25	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.10	ug/L		08/08/16 15:47	08/09/16 16:25	1
Bis(2-ethylhexyl) phthalate	5.0	U	5.0	2.0	ug/L		08/08/16 15:47	08/09/16 16:25	1
4-Bromophenyl phenyl ether	1.0	U	1.0	0.12	ug/L		08/08/16 15:47	08/09/16 16:25	1
Butyl benzyl phthalate	1.0	U	1.0	0.12	ug/L		08/08/16 15:47	08/09/16 16:25	1
Caprolactam	1.0	U	1.0	0.13	ug/L		08/08/16 15:47	08/09/16 16:25	1
Carbazole	2.0	U	2.0	0.10	ug/L		08/08/16 15:47	08/09/16 16:25	1
4-Chloroaniline	4.0	U	4.0	2.0	ug/L		08/08/16 15:47	08/09/16 16:25	1
4-Chloro-3-methylphenol	1.0	U	1.0	0.12	ug/L		08/08/16 15:47	08/09/16 16:25	1
2-Chloronaphthalene	1.0	U	1.0	0.10	ug/L		08/08/16 15:47	08/09/16 16:25	1
2-Chlorophenol	1.0	U	1.0	0.12	ug/L		08/08/16 15:47	08/09/16 16:25	1
4-Chlorophenyl phenyl ether	1.0	U	1.0	0.10	ug/L		08/08/16 15:47	08/09/16 16:25	1
Chrysene	0.20	U	0.20	0.045	ug/L		08/08/16 15:47	08/09/16 16:25	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.10	ug/L		08/08/16 15:47	08/09/16 16:25	1
Dibenzofuran	1.0	U	1.0	0.10	ug/L		08/08/16 15:47	08/09/16 16:25	1
3,3'-Dichlorobenzidine	20	U	20	2.0	ug/L		08/08/16 15:47	08/09/16 16:25	1
2,4-Dichlorophenol	1.0	U	1.0	0.10	ug/L		08/08/16 15:47	08/09/16 16:25	1
Diethyl phthalate	1.0	U	1.0	0.11	ug/L		08/08/16 15:47	08/09/16 16:25	1
2,4-Dimethylphenol	2.0	U	2.0	0.69	ug/L		08/08/16 15:47	08/09/16 16:25	1
Dimethyl phthalate	1.0	U	1.0	0.10	ug/L		08/08/16 15:47	08/09/16 16:25	1
Di-n-butyl phthalate	1.0	U	1.0	0.39	ug/L		08/08/16 15:47	08/09/16 16:25	1
4,6-Dinitro-2-methylphenol	5.0	U	5.0	1.0	ug/L		08/08/16 15:47	08/09/16 16:25	1
2,4-Dinitrophenol	10	U	10	1.1	ug/L		08/08/16 15:47	08/09/16 16:25	1
2,4-Dinitrotoluene	1.0	U	1.0	0.12	ug/L		08/08/16 15:47	08/09/16 16:25	1
2,6-Dinitrotoluene	1.0	U	1.0	0.13	ug/L		08/08/16 15:47	08/09/16 16:25	1
Di-n-octyl phthalate	1.0	U	1.0	0.17	ug/L		08/08/16 15:47	08/09/16 16:25	1
Fluoranthene	0.20	U	0.20	0.10	ug/L		08/08/16 15:47	08/09/16 16:25	1
Fluorene	0.20	U	0.20	0.10	ug/L		08/08/16 15:47	08/09/16 16:25	1
Hexachlorobenzene	1.0	U	1.0	0.10	ug/L		08/08/16 15:47	08/09/16 16:25	1
Hexachlorobutadiene	1.0	U	1.0	0.10	ug/L		08/08/16 15:47	08/09/16 16:25	1
Hexachlorocyclopentadiene	2.0	U	2.0	0.50	ug/L		08/08/16 15:47	08/09/16 16:25	1
Hexachloroethane	1.0	U	1.0	0.50	ug/L		08/08/16 15:47	08/09/16 16:25	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.10	ug/L		08/08/16 15:47	08/09/16 16:25	1
Isophorone	1.0	U	1.0	0.10	ug/L		08/08/16 15:47	08/09/16 16:25	1
2-Methylnaphthalene	0.20	U	0.20	0.10	ug/L		08/08/16 15:47	08/09/16 16:25	1
2-Methylphenol	2.0	U	2.0	0.74	ug/L		08/08/16 15:47	08/09/16 16:25	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 680-444703/18-A
Matrix: Water
Analysis Batch: 445011

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 444703

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	2.0	U	2.0	0.66	ug/L		08/08/16 15:47	08/09/16 16:25	1
Naphthalene	0.20	U	0.20	0.10	ug/L		08/08/16 15:47	08/09/16 16:25	1
2-Nitroaniline	1.0	U	1.0	0.16	ug/L		08/08/16 15:47	08/09/16 16:25	1
3-Nitroaniline	5.0	U	5.0	0.16	ug/L		08/08/16 15:47	08/09/16 16:25	1
4-Nitroaniline	5.0	U	5.0	0.50	ug/L		08/08/16 15:47	08/09/16 16:25	1
Nitrobenzene	1.0	U	1.0	0.10	ug/L		08/08/16 15:47	08/09/16 16:25	1
2-Nitrophenol	1.0	U	1.0	0.10	ug/L		08/08/16 15:47	08/09/16 16:25	1
4-Nitrophenol	8.0	U	8.0	4.0	ug/L		08/08/16 15:47	08/09/16 16:25	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.13	ug/L		08/08/16 15:47	08/09/16 16:25	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.37	ug/L		08/08/16 15:47	08/09/16 16:25	1
2,2'-oxybis[1-chloropropane]	1.0	U	1.0	0.10	ug/L		08/08/16 15:47	08/09/16 16:25	1
Pentachlorophenol	5.0	U	5.0	0.40	ug/L		08/08/16 15:47	08/09/16 16:25	1
Phenanthrene	0.20	U	0.20	0.10	ug/L		08/08/16 15:47	08/09/16 16:25	1
Phenol	1.0	U	1.0	0.13	ug/L		08/08/16 15:47	08/09/16 16:25	1
Pyrene	0.20	U	0.20	0.10	ug/L		08/08/16 15:47	08/09/16 16:25	1
2,4,5-Trichlorophenol	1.0	U	1.0	0.12	ug/L		08/08/16 15:47	08/09/16 16:25	1
2,4,6-Trichlorophenol	1.0	U	1.0	0.17	ug/L		08/08/16 15:47	08/09/16 16:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*48*		*31 - 107*	*08/08/16 15:47*	*08/09/16 16:25*	*1*
2-Fluorophenol	*53*		*18 - 112*	*08/08/16 15:47*	*08/09/16 16:25*	*1*
Nitrobenzene-d5 (Surr)	*59*		*37 - 103*	*08/08/16 15:47*	*08/09/16 16:25*	*1*
Phenol-d5 (Surr)	*55*		*20 - 113*	*08/08/16 15:47*	*08/09/16 16:25*	*1*
Terphenyl-d14 (Surr)	*76*		*22 - 121*	*08/08/16 15:47*	*08/09/16 16:25*	*1*
2,4,6-Tribromophenol (Surr)	*53*		*39 - 133*	*08/08/16 15:47*	*08/09/16 16:25*	*1*

Lab Sample ID: LCS 680-444703/19-A
Matrix: Water
Analysis Batch: 445011

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 444703

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	10.0	6.56		ug/L		66	41 - 130
Acenaphthylene	10.0	6.43		ug/L		64	37 - 130
Acetophenone	10.0	7.81		ug/L		78	45 - 130
Anthracene	10.0	8.09		ug/L		81	48 - 130
Atrazine	10.0	7.54		ug/L		75	30 - 130
Benzaldehyde	10.0	5.15		ug/L		51	17 - 130
Benzo[a]anthracene	10.0	8.09		ug/L		81	52 - 130
Benzo[a]pyrene	10.0	7.35		ug/L		74	44 - 130
Benzo[b]fluoranthene	10.0	8.29		ug/L		83	44 - 130
Benzo[g,h,i]perylene	10.0	7.59		ug/L		76	31 - 130
Benzo[k]fluoranthene	10.0	7.87		ug/L		79	39 - 131
1,1'-Biphenyl	10.0	6.35		ug/L		64	35 - 130
Bis(2-chloroethoxy)methane	10.0	7.59		ug/L		76	33 - 130
Bis(2-chloroethyl)ether	10.0	7.02		ug/L		70	29 - 130
Bis(2-ethylhexyl) phthalate	10.0	7.43		ug/L		74	40 - 130
4-Bromophenyl phenyl ether	10.0	8.07		ug/L		81	41 - 130
Butyl benzyl phthalate	10.0	8.63		ug/L		86	42 - 130

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 680-444703/19-A
Matrix: Water
Analysis Batch: 445011

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 444703

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Caprolactam	10.0	6.06		ug/L		61	25 - 130
Carbazole	10.0	11.0		ug/L		110	48 - 130
4-Chloroaniline	10.0	5.92		ug/L		59	10 - 130
4-Chloro-3-methylphenol	10.0	9.18		ug/L		92	49 - 122
2-Chloronaphthalene	10.0	6.24		ug/L		62	31 - 130
2-Chlorophenol	10.0	7.53		ug/L		75	44 - 130
4-Chlorophenyl phenyl ether	10.0	6.89		ug/L		69	39 - 130
Chrysene	10.0	7.77		ug/L		78	47 - 130
Dibenz(a,h)anthracene	10.0	7.69		ug/L		77	36 - 130
Dibenzofuran	10.0	6.84		ug/L		68	38 - 130
3,3'-Dichlorobenzidine	10.0	6.75	J	ug/L		68	10 - 142
2,4-Dichlorophenol	10.0	8.33		ug/L		83	49 - 130
Diethyl phthalate	10.0	7.48		ug/L		75	46 - 130
2,4-Dimethylphenol	10.0	5.56		ug/L		56	37 - 130
Dimethyl phthalate	10.0	6.97		ug/L		70	48 - 130
Di-n-butyl phthalate	10.0	8.51		ug/L		85	43 - 130
4,6-Dinitro-2-methylphenol	20.0	19.6		ug/L		98	18 - 147
2,4-Dinitrophenol	20.0	15.3		ug/L		77	16 - 147
2,4-Dinitrotoluene	10.0	8.17		ug/L		82	51 - 130
2,6-Dinitrotoluene	10.0	7.46		ug/L		75	51 - 130
Di-n-octyl phthalate	10.0	7.47		ug/L		75	43 - 130
Fluoranthene	10.0	8.67		ug/L		87	50 - 130
Fluorene	10.0	6.64		ug/L		66	43 - 130
Hexachlorobenzene	10.0	7.77		ug/L		78	42 - 130
Hexachlorobutadiene	10.0	5.36		ug/L		54	23 - 130
Hexachlorocyclopentadiene	10.0	0.557	J *	ug/L		6	10 - 130
Hexachloroethane	10.0	5.25		ug/L		52	23 - 130
Indeno[1,2,3-cd]pyrene	10.0	7.46		ug/L		75	30 - 130
Isophorone	10.0	7.72		ug/L		77	46 - 130
2-Methylnaphthalene	10.0	6.60		ug/L		66	33 - 130
2-Methylphenol	10.0	7.29		ug/L		73	42 - 130
3 & 4 Methylphenol	10.0	7.43		ug/L		74	44 - 130
Naphthalene	10.0	6.57		ug/L		66	40 - 130
2-Nitroaniline	10.0	7.77		ug/L		78	46 - 130
3-Nitroaniline	10.0	6.65		ug/L		66	14 - 130
4-Nitroaniline	10.0	7.74		ug/L		77	38 - 130
Nitrobenzene	10.0	7.42		ug/L		74	41 - 130
2-Nitrophenol	10.0	8.03		ug/L		80	50 - 130
4-Nitrophenol	20.0	13.5		ug/L		68	25 - 135
N-Nitrosodi-n-propylamine	10.0	8.48		ug/L		85	39 - 130
N-Nitrosodiphenylamine	10.0	9.05		ug/L		91	27 - 130
2,2'-oxybis[1-chloropropane]	10.0	6.19		ug/L		62	24 - 130
Pentachlorophenol	20.0	18.4		ug/L		92	27 - 134
Phenanthrene	10.0	9.63		ug/L		96	49 - 130
Phenol	10.0	5.97		ug/L		60	37 - 130
Pyrene	10.0	8.50		ug/L		85	45 - 130
2,4,5-Trichlorophenol	10.0	8.67		ug/L		87	49 - 130
2,4,6-Trichlorophenol	10.0	8.70		ug/L		87	48 - 130

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 680-444703/19-A
Matrix: Water
Analysis Batch: 445011

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 444703

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*61*		*31 - 107*
2-Fluorophenol	*60*		*18 - 112*
Nitrobenzene-d5 (Surr)	*67*		*37 - 103*
Phenol-d5 (Surr)	*57*		*20 - 113*
Terphenyl-d14 (Surr)	*75*		*22 - 121*
2,4,6-Tribromophenol (Surr)	*65*		*39 - 133*

Lab Sample ID: LCSD 680-444703/20-A
Matrix: Water
Analysis Batch: 445011

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 444703

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	10.0	6.81		ug/L		68	41 - 130	4	20
Acenaphthylene	10.0	6.68		ug/L		67	37 - 130	4	30
Acetophenone	10.0	8.38		ug/L		84	45 - 130	7	30
Anthracene	10.0	8.36		ug/L		84	48 - 130	3	20
Atrazine	10.0	7.36		ug/L		74	30 - 130	2	50
Benzaldehyde	10.0	5.17		ug/L		52	17 - 130	0	50
Benzo[a]anthracene	10.0	8.32		ug/L		83	52 - 130	3	20
Benzo[a]pyrene	10.0	7.64		ug/L		76	44 - 130	4	30
Benzo[b]fluoranthene	10.0	8.26		ug/L		83	44 - 130	0	40
Benzo[g,h,i]perylene	10.0	7.84		ug/L		78	31 - 130	3	40
Benzo[k]fluoranthene	10.0	8.27		ug/L		83	39 - 131	5	30
1,1'-Biphenyl	10.0	6.55		ug/L		66	35 - 130	3	30
Bis(2-chloroethoxy)methane	10.0	8.09		ug/L		81	33 - 130	6	50
Bis(2-chloroethyl)ether	10.0	7.40		ug/L		74	29 - 130	5	50
Bis(2-ethylhexyl) phthalate	10.0	7.63		ug/L		76	40 - 130	3	30
4-Bromophenyl phenyl ether	10.0	9.16		ug/L		92	41 - 130	13	20
Butyl benzyl phthalate	10.0	8.75		ug/L		87	42 - 130	1	20
Caprolactam	10.0	7.89		ug/L		79	25 - 130	26	50
Carbazole	10.0	11.1		ug/L		111	48 - 130	2	50
4-Chloroaniline	10.0	6.74		ug/L		67	10 - 130	13	50
4-Chloro-3-methylphenol	10.0	9.48		ug/L		95	49 - 122	3	30
2-Chloronaphthalene	10.0	6.53		ug/L		65	31 - 130	5	30
2-Chlorophenol	10.0	7.99		ug/L		80	44 - 130	6	30
4-Chlorophenyl phenyl ether	10.0	7.04		ug/L		70	39 - 130	2	20
Chrysene	10.0	8.04		ug/L		80	47 - 130	3	30
Dibenz(a,h)anthracene	10.0	7.94		ug/L		79	36 - 130	3	30
Dibenzofuran	10.0	7.02		ug/L		70	38 - 130	3	20
3,3'-Dichlorobenzidine	10.0	7.03	J	ug/L		70	10 - 142	4	50
2,4-Dichlorophenol	10.0	8.79		ug/L		88	49 - 130	5	30
Diethyl phthalate	10.0	7.54		ug/L		75	46 - 130	1	20
2,4-Dimethylphenol	10.0	5.64		ug/L		56	37 - 130	1	30
Dimethyl phthalate	10.0	7.07		ug/L		71	48 - 130	1	20
Di-n-butyl phthalate	10.0	8.67		ug/L		87	43 - 130	2	20
4,6-Dinitro-2-methylphenol	20.0	19.9		ug/L		100	18 - 147	2	30
2,4-Dinitrophenol	20.0	15.0		ug/L		75	16 - 147	2	50
2,4-Dinitrotoluene	10.0	8.25		ug/L		82	51 - 130	1	20

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 680-444703/20-A
Matrix: Water
Analysis Batch: 445011

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 444703

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,6-Dinitrotoluene	10.0	7.39		ug/L		74	51 - 130	1	20
Di-n-octyl phthalate	10.0	7.64		ug/L		76	43 - 130	2	30
Fluoranthene	10.0	8.94		ug/L		89	50 - 130	3	20
Fluorene	10.0	7.24		ug/L		72	43 - 130	9	20
Hexachlorobenzene	10.0	8.91		ug/L		89	42 - 130	14	20
Hexachlorobutadiene	10.0	5.75		ug/L		57	23 - 130	7	30
Hexachlorocyclopentadiene	10.0	0.801	J *	ug/L		8	10 - 130	36	50
Hexachloroethane	10.0	5.45		ug/L		54	23 - 130	4	30
Indeno[1,2,3-cd]pyrene	10.0	7.70		ug/L		77	30 - 130	3	30
Isophorone	10.0	8.05		ug/L		80	46 - 130	4	30
2-Methylnaphthalene	10.0	6.99		ug/L		70	33 - 130	6	30
2-Methylphenol	10.0	7.54		ug/L		75	42 - 130	3	30
3 & 4 Methylphenol	10.0	7.75		ug/L		78	44 - 130	4	30
Naphthalene	10.0	6.99		ug/L		70	40 - 130	6	30
2-Nitroaniline	10.0	7.91		ug/L		79	46 - 130	2	20
3-Nitroaniline	10.0	6.26		ug/L		63	14 - 130	6	50
4-Nitroaniline	10.0	8.04		ug/L		80	38 - 130	4	50
Nitrobenzene	10.0	8.04		ug/L		80	41 - 130	8	30
2-Nitrophenol	10.0	8.67		ug/L		87	50 - 130	8	30
4-Nitrophenol	20.0	15.5		ug/L		77	25 - 135	13	30
N-Nitrosodi-n-propylamine	10.0	8.69		ug/L		87	39 - 130	2	30
N-Nitrosodiphenylamine	10.0	8.68		ug/L		87	27 - 130	4	40
2,2'-oxybis[1-chloropropane]	10.0	6.37		ug/L		64	24 - 130	3	30
Pentachlorophenol	20.0	19.3		ug/L		97	27 - 134	5	20
Phenanthrene	10.0	9.93		ug/L		99	49 - 130	3	20
Phenol	10.0	6.99		ug/L		70	37 - 130	16	40
Pyrene	10.0	8.84		ug/L		88	45 - 130	4	20
2,4,5-Trichlorophenol	10.0	8.52		ug/L		85	49 - 130	2	20
2,4,6-Trichlorophenol	10.0	8.97		ug/L		90	48 - 130	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*61*		*31 - 107*
2-Fluorophenol	*66*		*18 - 112*
Nitrobenzene-d5 (Surr)	*71*		*37 - 103*
Phenol-d5 (Surr)	*65*		*20 - 113*
Terphenyl-d14 (Surr)	*72*		*22 - 121*
2,4,6-Tribromophenol (Surr)	*63*		*39 - 133*

Lab Sample ID: 680-128342-5 MS
Matrix: Water
Analysis Batch: 445011

Client Sample ID: 1600780-MW-18 MS
Prep Type: Total/NA
Prep Batch: 444703

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.16	J	9.51	5.35		ug/L		55	41 - 130
Acenaphthylene	0.19	U	9.51	5.01		ug/L		53	37 - 130
Acetophenone	55	E	9.51	53.6	E 4	ug/L		-12	45 - 130
Anthracene	0.19	U	9.51	6.53		ug/L		69	48 - 130
Atrazine	3.8	U	9.51	2.97	J	ug/L		31	30 - 130

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 680-128342-5 MS | **Client Sample ID: 1600780-MW-18 MS**
Matrix: Water | **Prep Type: Total/NA**
Analysis Batch: 445011 | **Prep Batch: 444703**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzaldehyde	0.95	U F1	9.51	125	E F1	ug/L		1313	17 - 130
Benzo[a]anthracene	0.19	U	9.51	6.32		ug/L		67	52 - 130
Benzo[a]pyrene	0.19	U	9.51	6.01		ug/L		63	44 - 130
Benzo[b]fluoranthene	0.19	U	9.51	6.25		ug/L		66	44 - 130
Benzo[g,h,i]perylene	0.19	U	9.51	6.53		ug/L		69	31 - 130
Benzo[k]fluoranthene	0.19	U	9.51	6.39		ug/L		67	39 - 131
1,1'-Biphenyl	0.77	J	9.51	5.80		ug/L		53	35 - 130
Bis(2-chloroethoxy)methane	0.95	U	9.51	5.79		ug/L		61	33 - 130
Bis(2-chloroethyl)ether	0.95	U F1	9.51	0.95	U F1	ug/L		0	29 - 130
Bis(2-ethylhexyl) phthalate	4.8	U	9.51	6.39		ug/L		67	40 - 130
4-Bromophenyl phenyl ether	0.95	U	9.51	6.51		ug/L		68	41 - 130
Butyl benzyl phthalate	0.95	U	9.51	6.57		ug/L		69	42 - 130
Caprolactam	0.95	U F1	9.51	0.95	U F1	ug/L		0	25 - 130
Carbazole	1.9	U	9.51	9.32		ug/L		98	48 - 130
4-Chloroaniline	3.8	U F1	9.51	3.8	U F1	ug/L		0	10 - 130
4-Chloro-3-methylphenol	0.95	U F1	9.51	0.95	U F1	ug/L		0	49 - 122
2-Chloronaphthalene	0.95	U	9.51	5.11		ug/L		54	31 - 130
2-Chlorophenol	0.95	U F1	9.51	0.95	U F1	ug/L		0	44 - 130
4-Chlorophenyl phenyl ether	0.95	U	9.51	5.06		ug/L		53	39 - 130
Chrysene	0.19	U	9.51	6.29		ug/L		66	47 - 130
Dibenz(a,h)anthracene	0.19	U	9.51	6.72		ug/L		71	36 - 130
Dibenzofuran	0.95	U	9.51	5.41		ug/L		57	38 - 130
3,3'-Dichlorobenzidine	19	U F1	9.51	19	U F1	ug/L		0	10 - 142
2,4-Dichlorophenol	0.95	U	9.51	6.42		ug/L		68	49 - 130
Diethyl phthalate	0.95	U	9.51	5.61		ug/L		59	46 - 130
2,4-Dimethylphenol	43	E	9.51	35.7	E 4	ug/L		-74	37 - 130
Dimethyl phthalate	0.95	U F2	9.51	4.74		ug/L		50	48 - 130
Di-n-butyl phthalate	0.95	U	9.51	6.35		ug/L		67	43 - 130
4,6-Dinitro-2-methylphenol	4.8	U	19.0	15.0		ug/L		79	18 - 147
2,4-Dinitrophenol	9.5	U	19.0	11.1		ug/L		59	16 - 147
2,4-Dinitrotoluene	0.95	U	9.51	6.62		ug/L		70	51 - 130
2,6-Dinitrotoluene	0.74	J	9.51	5.85		ug/L		54	51 - 130
Di-n-octyl phthalate	0.95	U	9.51	6.39		ug/L		67	43 - 130
Fluoranthene	0.19	U	9.51	6.41		ug/L		67	50 - 130
Fluorene	0.26		9.51	5.76		ug/L		58	43 - 130
Hexachlorobenzene	0.95	U	9.51	6.19		ug/L		65	42 - 130
Hexachlorobutadiene	0.95	U	9.51	4.55		ug/L		48	23 - 130
Hexachlorocyclopentadiene	1.9	U	9.51	1.90		ug/L		20	10 - 130
Hexachloroethane	0.95	U F1	9.51	0.95	U F1	ug/L		0	23 - 130
Indeno[1,2,3-cd]pyrene	0.19	U	9.51	6.74		ug/L		71	30 - 130
Isophorone	0.95	U	9.51	5.85		ug/L		62	46 - 130
2-Methylnaphthalene	100	E	9.51	89.4	E 4	ug/L		-151	33 - 130
2-Methylphenol	12	F1	9.51	16.8		ug/L		46	42 - 130
3 & 4 Methylphenol	16	F1	9.51	17.0	F1	ug/L		7	44 - 130
Naphthalene	110	E	9.51	89.1	E 4	ug/L		-271	40 - 130
2-Nitroaniline	0.95	U	9.51	6.38		ug/L		67	46 - 130
3-Nitroaniline	4.8	U F1	9.51	4.8	U F1	ug/L		0	14 - 130
4-Nitroaniline	4.8	U F1	9.51	4.8	U F1	ug/L		0	38 - 130

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 680-128342-5 MS — **Client Sample ID: 1600780-MW-18 MS**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445011 — **Prep Batch: 444703**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrobenzene	0.95	U	9.51	9.60		ug/L		101	41 - 130
2-Nitrophenol	0.95	U	9.51	7.57		ug/L		80	50 - 130
4-Nitrophenol	7.6	U	19.0	12.3		ug/L		65	25 - 135
N-Nitrosodi-n-propylamine	0.95	U	9.51	7.70		ug/L		81	39 - 130
N-Nitrosodiphenylamine	0.95	U	9.51	5.88		ug/L		62	27 - 130
2,2'-oxybis[1-chloropropane]	0.95	U	9.51	4.89		ug/L		51	24 - 130
Pentachlorophenol	4.8	U	19.0	15.6		ug/L		82	27 - 134
Phenanthrene	0.36		9.51	7.27		ug/L		73	49 - 130
Phenol	67	E	9.51	60.8	E 4	ug/L		-69	37 - 130
Pyrene	0.19	U	9.51	6.99		ug/L		73	45 - 130
2,4,5-Trichlorophenol	0.95	U	9.51	6.54		ug/L		69	49 - 130
2,4,6-Trichlorophenol	0.95	U	9.51	6.94		ug/L		73	48 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*48*		*31 - 107*
2-Fluorophenol	*36*		*18 - 112*
Nitrobenzene-d5 (Surr)	*56*		*37 - 103*
Phenol-d5 (Surr)	*52*		*20 - 113*
Terphenyl-d14 (Surr)	*43*		*22 - 121*
2,4,6-Tribromophenol (Surr)	*52*		*39 - 133*

Lab Sample ID: 680-128342-5 MSD — **Client Sample ID: 1600780-MW-18 MSD**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445011 — **Prep Batch: 444703**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	0.16	J	9.55	5.53		ug/L		56	41 - 130	3	20
Acenaphthylene	0.19	U	9.55	5.14		ug/L		54	37 - 130	2	30
Acetophenone	55	E	9.55	48.7	E 4	ug/L		-64	45 - 130	10	30
Anthracene	0.19	U	9.55	6.72		ug/L		70	48 - 130	3	20
Atrazine	3.8	U	9.55	3.20	J	ug/L		33	30 - 130	7	50
Benzaldehyde	0.95	U F1	9.55	124	E F1	ug/L		1299	17 - 130	1	50
Benzo[a]anthracene	0.19	U	9.55	6.68		ug/L		70	52 - 130	5	20
Benzo[a]pyrene	0.19	U	9.55	6.36		ug/L		67	44 - 130	6	30
Benzo[b]fluoranthene	0.19	U	9.55	6.58		ug/L		69	44 - 130	5	40
Benzo[g,h,i]perylene	0.19	U	9.55	6.84		ug/L		72	31 - 130	5	40
Benzo[k]fluoranthene	0.19	U	9.55	6.12		ug/L		64	39 - 131	4	30
1,1'-Biphenyl	0.77	J	9.55	5.90		ug/L		54	35 - 130	2	30
Bis(2-chloroethoxy)methane	0.95	U	9.55	5.45		ug/L		57	33 - 130	6	50
Bis(2-chloroethyl)ether	0.95	U F1	9.55	0.95	U F1	ug/L		0	29 - 130	NC	50
Bis(2-ethylhexyl) phthalate	4.8	U	9.55	6.72		ug/L		70	40 - 130	5	30
4-Bromophenyl phenyl ether	0.95	U	9.55	6.72		ug/L		70	41 - 130	3	20
Butyl benzyl phthalate	0.95	U	9.55	6.93		ug/L		73	42 - 130	5	20
Caprolactam	0.95	U F1	9.55	0.95	U F1	ug/L		0	25 - 130	NC	50
Carbazole	1.9	U	9.55	9.76		ug/L		102	48 - 130	5	50
4-Chloroaniline	3.8	U F1	9.55	3.8	U F1	ug/L		0	10 - 130	NC	50
4-Chloro-3-methylphenol	0.95	U F1	9.55	0.95	U F1	ug/L		0	49 - 122	NC	30
2-Chloronaphthalene	0.95	U	9.55	5.19		ug/L		54	31 - 130	2	30

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 680-128342-5 MSD — **Client Sample ID: 1600780-MW-18 MSD**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445011 — **Prep Batch: 444703**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorophenol	0.95	U F1	9.55	0.95	U F1	ug/L		0	44 - 130	NC	30
4-Chlorophenyl phenyl ether	0.95	U	9.55	5.23		ug/L		55	39 - 130	3	20
Chrysene	0.19	U	9.55	6.59		ug/L		69	47 - 130	5	30
Dibenz(a,h)anthracene	0.19	U	9.55	7.01		ug/L		73	36 - 130	4	30
Dibenzofuran	0.95	U	9.55	5.59		ug/L		59	38 - 130	3	20
3,3'-Dichlorobenzidine	19	U F1	9.55	19	U F1	ug/L		0	10 - 142	NC	50
2,4-Dichlorophenol	0.95	U	9.55	6.50		ug/L		68	49 - 130	1	30
Diethyl phthalate	0.95	U	9.55	5.73		ug/L		60	46 - 130	2	20
2,4-Dimethylphenol	43	E	9.55	29.8	E 4	ug/L		-135	37 - 130	18	30
Dimethyl phthalate	0.95	U F2	9.55	5.95	F2	ug/L		62	48 - 130	23	20
Di-n-butyl phthalate	0.95	U	9.55	6.67		ug/L		70	43 - 130	5	20
4,6-Dinitro-2-methylphenol	4.8	U	19.1	15.3		ug/L		80	18 - 147	2	30
2,4-Dinitrophenol	9.5	U	19.1	11.9		ug/L		62	16 - 147	6	50
2,4-Dinitrotoluene	0.95	U	9.55	6.51		ug/L		68	51 - 130	2	20
2,6-Dinitrotoluene	0.74	J	9.55	6.05		ug/L		56	51 - 130	3	20
Di-n-octyl phthalate	0.95	U	9.55	6.80		ug/L		71	43 - 130	6	30
Fluoranthene	0.19	U	9.55	6.68		ug/L		70	50 - 130	4	20
Fluorene	0.26		9.55	5.89		ug/L		59	43 - 130	2	20
Hexachlorobenzene	0.95	U	9.55	6.42		ug/L		67	42 - 130	4	20
Hexachlorobutadiene	0.95	U	9.55	4.60		ug/L		48	23 - 130	1	30
Hexachlorocyclopentadiene	1.9	U	9.55	1.66	J	ug/L		17	10 - 130	13	50
Hexachloroethane	0.95	U F1	9.55	0.95	U F1	ug/L		0	23 - 130	NC	30
Indeno[1,2,3-cd]pyrene	0.19	U	9.55	7.02		ug/L		74	30 - 130	4	30
Isophorone	0.95	U	9.55	5.28		ug/L		55	46 - 130	10	30
2-Methylnaphthalene	100	E	9.55	82.2	E 4	ug/L		-226	33 - 130	8	30
2-Methylphenol	12	F1	9.55	15.5	F1	ug/L		33	42 - 130	8	30
3 & 4 Methylphenol	16	F1	9.55	15.7	F1	ug/L		-6	44 - 130	8	30
Naphthalene	110	E	9.55	85.5	E 4	ug/L		-308	40 - 130	4	30
2-Nitroaniline	0.95	U	9.55	6.46		ug/L		68	46 - 130	1	20
3-Nitroaniline	4.8	U F1	9.55	4.8	U F1	ug/L		0	14 - 130	NC	50
4-Nitroaniline	4.8	U F1	9.55	1.60	J F1	ug/L		17	38 - 130	NC	50
Nitrobenzene	0.95	U	9.55	10.3		ug/L		108	41 - 130	7	30
2-Nitrophenol	0.95	U	9.55	7.27		ug/L		76	50 - 130	4	30
4-Nitrophenol	7.6	U	19.1	13.3		ug/L		69	25 - 135	8	30
N-Nitrosodi-n-propylamine	0.95	U	9.55	8.48		ug/L		89	39 - 130	10	30
N-Nitrosodiphenylamine	0.95	U	9.55	7.15		ug/L		75	27 - 130	19	40
2,2'-oxybis[1-chloropropane]	0.95	U	9.55	4.97		ug/L		52	24 - 130	2	30
Pentachlorophenol	4.8	U	19.1	16.1		ug/L		84	27 - 134	3	20
Phenanthrene	0.36		9.55	7.66		ug/L		77	49 - 130	5	20
Phenol	67	E	9.55	50.9	E 4	ug/L		-173	37 - 130	18	40
Pyrene	0.19	U	9.55	7.33		ug/L		77	45 - 130	5	20
2,4,5-Trichlorophenol	0.95	U	9.55	6.79		ug/L		71	49 - 130	4	20
2,4,6-Trichlorophenol	0.95	U	9.55	6.81		ug/L		71	48 - 130	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*44*		*31 - 107*
2-Fluorophenol	*34*		*18 - 112*
Nitrobenzene-d5 (Surr)	*51*		*37 - 103*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 680-128342-5 MSD — **Client Sample ID: 1600780-MW-18 MSD**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445011 — **Prep Batch: 444703**

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Phenol-d5 (Surr)	*48*		*20 - 113*
Terphenyl-d14 (Surr)	*42*		*22 - 121*
2,4,6-Tribromophenol (Surr)	*56*		*39 - 133*

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 680-444459/2 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444459

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.050	U	0.050	0.023	mg/L			08/05/16 09:41	1

Lab Sample ID: LCS 680-444459/3 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444459

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate as N			0.999	1.06		mg/L		107	90 - 110		

Lab Sample ID: LCSD 680-444459/4 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444459

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N			0.999	1.07		mg/L		107	90 - 110	0	15

Lab Sample ID: 680-128342-5 MS — **Client Sample ID: 1600780-MW-18 MS**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444459

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate as N	0.050	U	0.999	1.01		mg/L		101	80 - 120		

Lab Sample ID: 680-128342-5 MSD — **Client Sample ID: 1600780-MW-18 MSD**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444459

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	0.050	U	0.999	1.00		mg/L		100	80 - 120	1	15

Lab Sample ID: MB 680-444550/37 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444550

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.050	U	0.050	0.023	mg/L			08/05/16 19:20	1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 680-444550/38 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444550

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.999	1.07		mg/L		107	90 - 110

Lab Sample ID: LCSD 680-444550/39 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444550

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	0.999	1.08		mg/L		108	90 - 110	1	15

Lab Sample ID: MB 680-445674/2 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445674

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.0	U	1.0	0.40	mg/L			08/15/16 09:40	1
Chloride	0.50	U	0.50	0.20	mg/L			08/15/16 09:40	1
Bromide	0.50	U	0.50	0.20	mg/L			08/15/16 09:40	1

Lab Sample ID: LCS 680-445674/3 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445674

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	10.0	10.3		mg/L		103	90 - 110
Chloride	10.0	9.73		mg/L		97	90 - 110
Bromide	10.0	10.1		mg/L		101	90 - 110

Lab Sample ID: LCSD 680-445674/4 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445674

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	10.0	10.4		mg/L		104	90 - 110	1	15
Chloride	10.0	9.74		mg/L		97	90 - 110	0	15
Bromide	10.0	10.1		mg/L		101	90 - 110	0	15

Lab Sample ID: MB 680-445894/2 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445894

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.0	U	1.0	0.40	mg/L			08/16/16 09:57	1
Chloride	0.50	U	0.50	0.20	mg/L			08/16/16 09:57	1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 680-445894/3 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445894

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	10.0	9.96		mg/L		100	90 - 110
Chloride	10.0	9.70		mg/L		97	90 - 110

Lab Sample ID: LCSD 680-445894/4 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445894

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	10.0	10.1		mg/L		101	90 - 110	1	15
Chloride	10.0	9.70		mg/L		97	90 - 110	0	15

Lab Sample ID: 680-128342-5 MS — **Client Sample ID: 1600780-MW-18 MS**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445894

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	410		100	513	4	mg/L		99	80 - 120
Chloride	110		100	215		mg/L		102	80 - 120

Lab Sample ID: 680-128342-5 MSD — **Client Sample ID: 1600780-MW-18 MSD**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445894

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	410		100	510	4	mg/L		96	80 - 120	1	15
Chloride	110		100	213		mg/L		101	80 - 120	1	15

Lab Sample ID: 680-128342-10 MS — **Client Sample ID: 1600780-MW-C**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445894

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50	U	500	491		mg/L		98	80 - 120
Chloride	880		500	1380		mg/L		101	80 - 120

Lab Sample ID: 680-128342-10 MSD — **Client Sample ID: 1600780-MW-C**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445894

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	50	U	500	499		mg/L		100	80 - 120	2	15
Chloride	880		500	1390		mg/L		103	80 - 120	1	15

Lab Sample ID: MB 680-445896/36 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445896

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.0	U	1.0	0.40	mg/L			08/15/16 19:32	1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 680-445896/36
Matrix: Water
Analysis Batch: 445896

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.50	U	0.50	0.20	mg/L			08/15/16 19:32	1
Bromide	0.50	U	0.50	0.20	mg/L			08/15/16 19:32	1

Lab Sample ID: LCS 680-445896/37
Matrix: Water
Analysis Batch: 445896

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	10.0	9.83		mg/L		98	90 - 110

Lab Sample ID: LCSD 680-445896/38
Matrix: Water
Analysis Batch: 445896

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromide	10.0	9.82		mg/L		98	90 - 110	0	15

Lab Sample ID: 680-128342-5 MS
Matrix: Water
Analysis Batch: 445896

Client Sample ID: 1600780-MW-18 MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	0.55		10.0	10.5		mg/L		100	80 - 120

Lab Sample ID: 680-128342-5 MSD
Matrix: Water
Analysis Batch: 445896

Client Sample ID: 1600780-MW-18 MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromide	0.55		10.0	10.6		mg/L		100	80 - 120	0	15

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-444731/1-A
Matrix: Water
Analysis Batch: 444929

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 444731

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	20	U	20	5.3	ug/L		08/08/16 10:53	08/09/16 01:54	1
Arsenic	20	U	20	6.2	ug/L		08/08/16 10:53	08/09/16 01:54	1
Beryllium	4.0	U	4.0	0.10	ug/L		08/08/16 10:53	08/09/16 01:54	1
Cadmium	5.0	U	5.0	1.0	ug/L		08/08/16 10:53	08/09/16 01:54	1
Calcium	500	U	500	25	ug/L		08/08/16 10:53	08/09/16 01:54	1
Chromium	10	U	10	1.6	ug/L		08/08/16 10:53	08/09/16 01:54	1
Copper	20	U	20	1.8	ug/L		08/08/16 10:53	08/09/16 01:54	1
Iron	50	U	50	17	ug/L		08/08/16 10:53	08/09/16 01:54	1
Lead	10	U	10	3.9	ug/L		08/08/16 10:53	08/09/16 01:54	1
Magnesium	500	U	500	33	ug/L		08/08/16 10:53	08/09/16 01:54	1
Manganese	10	U	10	1.0	ug/L		08/08/16 10:53	08/09/16 01:54	1

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

Lab Sample ID: MB 680-444731/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444929 — **Prep Batch: 444731**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	40	U	40	2.1	ug/L		08/08/16 10:53	08/09/16 01:54	1
Potassium	1000	U	1000	17	ug/L		08/08/16 10:53	08/09/16 01:54	1
Selenium	20	U	20	9.9	ug/L		08/08/16 10:53	08/09/16 01:54	1
Silver	10	U	10	0.60	ug/L		08/08/16 10:53	08/09/16 01:54	1
Sodium	1000	U	1000	480	ug/L		08/08/16 10:53	08/09/16 01:54	1
Thallium	25	U	25	6.0	ug/L		08/08/16 10:53	08/09/16 01:54	1
Zinc	20	U	20	7.0	ug/L		08/08/16 10:53	08/09/16 01:54	1

Lab Sample ID: LCS 680-444731/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444929 — **Prep Batch: 444731**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	51.0		ug/L		102	80 - 120
Arsenic	100	103		ug/L		103	80 - 120
Beryllium	50.0	53.3		ug/L		107	80 - 120
Cadmium	50.0	50.6		ug/L		101	80 - 120
Calcium	5000	4940		ug/L		99	80 - 120
Chromium	100	100		ug/L		100	80 - 120
Copper	100	104		ug/L		104	80 - 120
Iron	5000	4870		ug/L		97	80 - 120
Lead	500	493		ug/L		99	80 - 120
Magnesium	5000	4940		ug/L		99	80 - 120
Manganese	500	513		ug/L		103	80 - 120
Nickel	100	99.1		ug/L		99	80 - 120
Potassium	8000	8530		ug/L		107	80 - 120
Selenium	100	105		ug/L		105	80 - 120
Silver	50.0	49.3		ug/L		99	80 - 120
Sodium	5000	4700		ug/L		94	80 - 120
Thallium	40.0	36.8		ug/L		92	80 - 120
Zinc	100	102		ug/L		102	80 - 120

Lab Sample ID: 680-128342-5 MS — **Client Sample ID: 1600780-MW-18 MS**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444929 — **Prep Batch: 444731**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	20	U	50.0	52.3		ug/L		105	75 - 125
Arsenic	8.8	J	100	116		ug/L		107	75 - 125
Beryllium	4.0	U	50.0	52.0		ug/L		104	75 - 125
Cadmium	5.0	U	50.0	48.7		ug/L		97	75 - 125
Calcium	310000		5000	315000	4	ug/L		74	75 - 125
Chromium	10	U	100	97.5		ug/L		97	75 - 125
Copper	20	U	100	103		ug/L		103	75 - 125
Iron	12000	F1	5000	18500	F1	ug/L		131	75 - 125
Lead	10	U	500	473		ug/L		95	75 - 125
Magnesium	62000		5000	67300	4	ug/L		115	75 - 125
Manganese	3500		500	3970	4	ug/L		86	75 - 125
Nickel	7.4	J	100	100		ug/L		93	75 - 125

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

Lab Sample ID: 680-128342-5 MS — **Client Sample ID: 1600780-MW-18 MS**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444929 — **Prep Batch: 444731**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	2300		8000	11700		ug/L		119	75 - 125
Selenium	20	U	100	101		ug/L		101	75 - 125
Silver	10	U	50.0	50.1		ug/L		100	75 - 125
Sodium	59000		5000	61800	4	ug/L		50	75 - 125
Thallium	25	U	40.0	31.5		ug/L		79	75 - 125
Zinc	20	U	100	96.7		ug/L		97	75 - 125

Lab Sample ID: 680-128342-5 MSD — **Client Sample ID: 1600780-MW-18 MSD**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444929 — **Prep Batch: 444731**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	20	U	50.0	51.0		ug/L		102	75 - 125	3	20
Arsenic	8.8	J	100	117		ug/L		108	75 - 125	1	20
Beryllium	4.0	U	50.0	52.3		ug/L		105	75 - 125	1	20
Cadmium	5.0	U	50.0	48.7		ug/L		97	75 - 125	0	20
Calcium	310000		5000	312000	4	ug/L		19	75 - 125	1	20
Chromium	10	U	100	97.5		ug/L		98	75 - 125	0	20
Copper	20	U	100	103		ug/L		103	75 - 125	0	20
Iron	12000	F1	5000	18300	F1	ug/L		128	75 - 125	1	20
Lead	10	U	500	476		ug/L		95	75 - 125	1	20
Magnesium	62000		5000	66600	4	ug/L		102	75 - 125	1	20
Manganese	3500		500	3960	4	ug/L		84	75 - 125	0	20
Nickel	7.4	J	100	101		ug/L		93	75 - 125	0	20
Potassium	2300		8000	11700		ug/L		119	75 - 125	0	20
Selenium	20	U	100	100		ug/L		100	75 - 125	0	20
Silver	10	U	50.0	50.1		ug/L		100	75 - 125	0	20
Sodium	59000		5000	61800	4	ug/L		50	75 - 125	0	20
Thallium	25	U	40.0	36.6		ug/L		91	75 - 125	15	20
Zinc	20	U	100	96.2		ug/L		96	75 - 125	0	20

Lab Sample ID: MB 680-446505/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446861 — **Prep Batch: 446505**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	20	U	20	5.3	ug/L		08/19/16 13:50	08/22/16 19:14	1
Arsenic	20	U	20	6.2	ug/L		08/19/16 13:50	08/22/16 19:14	1
Beryllium	4.0	U	4.0	0.10	ug/L		08/19/16 13:50	08/22/16 19:14	1
Cadmium	5.0	U	5.0	1.0	ug/L		08/19/16 13:50	08/22/16 19:14	1
Calcium	500	U	500	25	ug/L		08/19/16 13:50	08/22/16 19:14	1
Chromium	10	U	10	1.6	ug/L		08/19/16 13:50	08/22/16 19:14	1
Copper	20	U	20	1.8	ug/L		08/19/16 13:50	08/22/16 19:14	1
Iron	50	U	50	17	ug/L		08/19/16 13:50	08/22/16 19:14	1
Lead	10	U	10	3.9	ug/L		08/19/16 13:50	08/22/16 19:14	1
Magnesium	500	U	500	33	ug/L		08/19/16 13:50	08/22/16 19:14	1
Manganese	10	U	10	1.0	ug/L		08/19/16 13:50	08/22/16 19:14	1
Nickel	40	U	40	2.1	ug/L		08/19/16 13:50	08/22/16 19:14	1
Potassium	1000	U	1000	17	ug/L		08/19/16 13:50	08/22/16 19:14	1

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

Lab Sample ID: MB 680-446505/1-A
Matrix: Water
Analysis Batch: 446861

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 446505

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	20	U	20	9.9	ug/L		08/19/16 13:50	08/22/16 19:14	1
Silver	10	U	10	0.60	ug/L		08/19/16 13:50	08/22/16 19:14	1
Sodium	1000	U	1000	480	ug/L		08/19/16 13:50	08/22/16 19:14	1
Thallium	25	U	25	6.0	ug/L		08/19/16 13:50	08/22/16 19:14	1
Zinc	20	U	20	7.0	ug/L		08/19/16 13:50	08/22/16 19:14	1

Lab Sample ID: LCS 680-446505/2-A
Matrix: Water
Analysis Batch: 446861

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 446505

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	48.0		ug/L		96	80 - 120
Arsenic	100	103		ug/L		103	80 - 120
Beryllium	50.0	52.8		ug/L		106	80 - 120
Cadmium	50.0	50.4		ug/L		101	80 - 120
Calcium	5000	4980		ug/L		100	80 - 120
Chromium	100	102		ug/L		102	80 - 120
Copper	100	101		ug/L		101	80 - 120
Iron	5000	4870		ug/L		97	80 - 120
Lead	500	498		ug/L		100	80 - 120
Magnesium	5000	4960		ug/L		99	80 - 120
Manganese	500	512		ug/L		102	80 - 120
Nickel	100	99.5		ug/L		99	80 - 120
Potassium	8000	7890		ug/L		99	80 - 120
Selenium	100	92.6		ug/L		93	80 - 120
Silver	50.0	48.9		ug/L		98	80 - 120
Sodium	5000	4550		ug/L		91	80 - 120
Thallium	40.0	39.1		ug/L		98	80 - 120
Zinc	100	101		ug/L		101	80 - 120

Lab Sample ID: LCSD 680-446505/3-A
Matrix: Water
Analysis Batch: 446861

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 446505

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	50.0	49.3		ug/L		99	80 - 120	3	20
Arsenic	100	105		ug/L		105	80 - 120	2	20
Beryllium	50.0	54.0		ug/L		108	80 - 120	2	20
Cadmium	50.0	51.6		ug/L		103	80 - 120	2	20
Calcium	5000	5090		ug/L		102	80 - 120	2	20
Chromium	100	104		ug/L		104	80 - 120	2	20
Copper	100	104		ug/L		104	80 - 120	3	20
Iron	5000	4970		ug/L		99	80 - 120	2	20
Lead	500	509		ug/L		102	80 - 120	2	20
Magnesium	5000	5060		ug/L		101	80 - 120	2	20
Manganese	500	522		ug/L		104	80 - 120	2	20
Nickel	100	101		ug/L		101	80 - 120	1	20
Potassium	8000	8060		ug/L		101	80 - 120	2	20
Selenium	100	100		ug/L		100	80 - 120	8	20

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

Lab Sample ID: LCSD 680-446505/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446861 — **Prep Batch: 446505**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	50.0	50.7		ug/L		101	80 - 120	3	20
Sodium	5000	4770		ug/L		95	80 - 120	5	20
Thallium	40.0	41.4		ug/L		103	80 - 120	6	20
Zinc	100	104		ug/L		104	80 - 120	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-444942/13-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445294 — **Prep Batch: 444942**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.080	ug/L		08/09/16 12:28	08/10/16 15:33	1

Lab Sample ID: LCS 680-444942/14-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445294 — **Prep Batch: 444942**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.63		ug/L		105	80 - 120

Lab Sample ID: 680-128342-5 MS — **Client Sample ID: 1600780-MW-18 MS**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445294 — **Prep Batch: 444942**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.20	U	1.00	1.13		ug/L		113	80 - 120

Lab Sample ID: 680-128342-5 MSD — **Client Sample ID: 1600780-MW-18 MSD**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445294 — **Prep Batch: 444942**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	1.09		ug/L		109	80 - 120	3	20

Lab Sample ID: MB 680-446506/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446711 — **Prep Batch: 446506**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.080	ug/L		08/19/16 14:20	08/22/16 11:28	1

Lab Sample ID: LCS 680-446506/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446711 — **Prep Batch: 446506**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.65		ug/L		106	80 - 120

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

Lab Sample ID: 680-128342-3 MS — **Client Sample ID: 1600780-MW-12**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 446711 — **Prep Batch: 446506**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.20	U	1.00	1.03		ug/L		103	80 - 120

Lab Sample ID: 680-128342-3 MSD — **Client Sample ID: 1600780-MW-12**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 446711 — **Prep Batch: 446506**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	1.01		ug/L		101	80 - 120	2	20

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 680-445048/7 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445048

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	5.0	U	5.0	5.0	mg/L			08/09/16 17:14	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	5.0	mg/L			08/09/16 17:14	1

Lab Sample ID: LCS 680-445048/8 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445048

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	250	232		mg/L		93	80 - 120

Lab Sample ID: LCSD 680-445048/34 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445048

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity	250	249		mg/L		99	80 - 120	7	30

Lab Sample ID: MB 680-445358/7 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445358

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	5.0	U	5.0	5.0	mg/L			08/11/16 12:15	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	5.0	mg/L			08/11/16 12:15	1

Lab Sample ID: LCS 680-445358/8 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445358

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	250	324	*	mg/L		129	80 - 120

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: LCSD 680-445358/27 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445358

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity	250	233	*	mg/L		93	80 - 120	32	30

Lab Sample ID: MB 680-445840/7 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445840

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	5.0	U	5.0	5.0	mg/L			08/15/16 15:16	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	5.0	mg/L			08/15/16 15:16	1

Lab Sample ID: LCS 680-445840/8 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445840

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	250	232		mg/L		93	80 - 120

Lab Sample ID: LCSD 680-445840/34 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445840

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity	250	249		mg/L		100	80 - 120	7	30

Lab Sample ID: MB 680-445841/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445841

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	5.0	U	5.0	5.0	mg/L			08/15/16 19:01	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	5.0	mg/L			08/15/16 19:01	1

Lab Sample ID: LCS 680-445841/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445841

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	250	231		mg/L		93	80 - 120

Lab Sample ID: LCSD 680-445841/30 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445841

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity	250	231		mg/L		92	80 - 120	0	30

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: 680-128342-11 DU — **Client Sample ID: 1600780-GSP-10**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445841

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Alkalinity	530			541		mg/L				2	30
Bicarbonate Alkalinity as CaCO3	520			537		mg/L				2	30

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 680-444932/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444932

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			08/09/16 11:54	1

Lab Sample ID: LCS 680-444932/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444932

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			59.0	50.0		mg/L		85	80 - 120		

Lab Sample ID: LCSD 680-444932/3 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444932

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids			59.0	49.0		mg/L		83	80 - 120	2	25

Lab Sample ID: MB 680-444964/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444964

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			08/09/16 13:37	1

Lab Sample ID: LCS 680-444964/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444964

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			59.0	50.0		mg/L		85	80 - 120		

Lab Sample ID: LCSD 680-444964/3 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444964

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids			59.0	50.0		mg/L		85	80 - 120	0	25

Method: 350.1-1993 R2.0 - Nitrogen, Ammonia

Lab Sample ID: MB 680-445936/11 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445936

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.25	U	0.25	0.10	mg/L			08/16/16 10:21	1

Lab Sample ID: LCS 680-445936/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445936

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.06		mg/L		106	90 - 110

Lab Sample ID: LCSD 680-445936/12 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445936

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia	1.00	1.06		mg/L		106	90 - 110	0	30

Lab Sample ID: 680-128342-5 MS — **Client Sample ID: 1600780-MW-18 MS**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445936

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	0.25	U	1.00	0.946		mg/L		95	90 - 110

Lab Sample ID: 680-128342-5 MSD — **Client Sample ID: 1600780-MW-18 MSD**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445936

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia	0.25	U	1.00	0.905		mg/L		90	90 - 110	5	30

Method: 365.4-1974 - Phosphorus, Total

Lab Sample ID: MB 680-445856/10-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446104 — **Prep Batch: 445856**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	0.10	U	0.10	0.041	mg/L		08/16/16 09:19	08/17/16 10:15	1

Lab Sample ID: LCS 680-445856/11-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446104 — **Prep Batch: 445856**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	2.00	2.08		mg/L		104	60 - 140

Method: 365.4-1974 - Phosphorus, Total (Continued)

Lab Sample ID: MB 680-445866/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446104 — **Prep Batch: 445866**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	0.10	U	0.10	0.041	mg/L		08/16/16 09:35	08/17/16 10:49	1

Lab Sample ID: LCS 680-445866/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446104 — **Prep Batch: 445866**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	2.00	2.05		mg/L		103	60 - 140

Lab Sample ID: MB 680-445868/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446104 — **Prep Batch: 445868**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	0.10	U	0.10	0.041	mg/L		08/16/16 09:40	08/17/16 11:20	1

Lab Sample ID: LCS 680-445868/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446104 — **Prep Batch: 445868**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	2.00	1.96		mg/L		98	60 - 140

Lab Sample ID: 680-128342-5 MS — **Client Sample ID: 1600780-MW-18 MS**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446104 — **Prep Batch: 445868**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	0.049	J	2.00	2.10		mg/L		103	60 - 140

Lab Sample ID: 680-128342-5 MSD — **Client Sample ID: 1600780-MW-18 MSD**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446104 — **Prep Batch: 445868**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phosphorus	0.049	J	2.00	1.90		mg/L		93	60 - 140	10	40

Method: 376.1-1978 - Sulfide

Lab Sample ID: MB 680-445236/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445236

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	1.0	U	1.0	1.0	mg/L			08/11/16 07:50	1

Method: 376.1-1978 - Sulfide (Continued)

Lab Sample ID: LCS 680-445236/2
Matrix: Water
Analysis Batch: 445236

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfide			10.0	10.5		mg/L		105	75 - 125		

Lab Sample ID: 680-128342-5 MS
Matrix: Water
Analysis Batch: 445236

Client Sample ID: 1600780-MW-18 MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfide	3.3		10.0	14.0		mg/L		107	75 - 125		

Lab Sample ID: 680-128342-5 MSD
Matrix: Water
Analysis Batch: 445236

Client Sample ID: 1600780-MW-18 MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide	3.3		10.0	14.0		mg/L		106	75 - 125	0	30

QC Association Summary

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128342-1

GC/MS VOA

Analysis Batch: 445229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128342-9	1600780-MW-25	Total/NA	Water	8260B	
MB 680-445229/9	Method Blank	Total/NA	Water	8260B	
LCS 680-445229/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-445229/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 445481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128342-1	Trip Blank	Total/NA	Water	8260B	
680-128342-2	1600780-MW-26	Total/NA	Water	8260B	
680-128342-3	1600780-MW-12	Total/NA	Water	8260B	
680-128342-7	1600780-FB-3	Total/NA	Water	8260B	
MB 680-445481/9	Method Blank	Total/NA	Water	8260B	
LCS 680-445481/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-445481/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 445597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128342-3	1600780-MW-12	Total/NA	Water	8260B	
680-128342-4	1600780-MW-1	Total/NA	Water	8260B	
680-128342-5	1600780-MW-18	Total/NA	Water	8260B	
680-128342-6	1600780-DUP-1	Total/NA	Water	8260B	
680-128342-8	1600780-MW-23	Total/NA	Water	8260B	
680-128342-10	1600780-MW-C	Total/NA	Water	8260B	
MB 680-445597/9	Method Blank	Total/NA	Water	8260B	
LCS 680-445597/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-445597/5	Lab Control Sample Dup	Total/NA	Water	8260B	
680-128342-5 MS	1600780-MW-18 MS	Total/NA	Water	8260B	
680-128342-5 MSD	1600780-MW-18 MSD	Total/NA	Water	8260B	

Analysis Batch: 446181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128342-10	1600780-MW-C	Total/NA	Water	8260B	
MB 680-446181/9	Method Blank	Total/NA	Water	8260B	
LCS 680-446181/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-446181/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 446183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128342-3 - DL	1600780-MW-12	Total/NA	Water	8260B	
680-128342-8 - DL	1600780-MW-23	Total/NA	Water	8260B	
MB 680-446183/9	Method Blank	Total/NA	Water	8260B	
LCS 680-446183/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-446183/5	Lab Control Sample Dup	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 444703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128342-2	1600780-MW-26	Total/NA	Water	3520C	
680-128342-3	1600780-MW-12	Dissolved	Water	3520C	

GC/MS Semi VOA (Continued)

Prep Batch: 444703 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128342-3 - DL	1600780-MW-12	Dissolved	Water	3520C	
680-128342-3	1600780-MW-12	Total/NA	Water	3520C	
680-128342-3 - DL	1600780-MW-12	Total/NA	Water	3520C	
680-128342-4 - DL	1600780-MW-1	Total/NA	Water	3520C	
680-128342-4	1600780-MW-1	Total/NA	Water	3520C	
680-128342-5	1600780-MW-18	Total/NA	Water	3520C	
680-128342-5 - DL	1600780-MW-18	Total/NA	Water	3520C	
680-128342-5 - DL2	1600780-MW-18	Total/NA	Water	3520C	
680-128342-6 - DL	1600780-DUP-1	Total/NA	Water	3520C	
680-128342-6	1600780-DUP-1	Total/NA	Water	3520C	
680-128342-8	1600780-MW-23	Total/NA	Water	3520C	
680-128342-8 - DL	1600780-MW-23	Total/NA	Water	3520C	
680-128342-9	1600780-MW-25	Total/NA	Water	3520C	
680-128342-10 - DL	1600780-MW-C	Dissolved	Water	3520C	
680-128342-10	1600780-MW-C	Dissolved	Water	3520C	
680-128342-10	1600780-MW-C	Total/NA	Water	3520C	
680-128342-10 - DL	1600780-MW-C	Total/NA	Water	3520C	
MB 680-444703/18-A	Method Blank	Total/NA	Water	3520C	
LCS 680-444703/19-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-444703/20-A	Lab Control Sample Dup	Total/NA	Water	3520C	
680-128342-5 MS	1600780-MW-18 MS	Total/NA	Water	3520C	
680-128342-5 MSD	1600780-MW-18 MSD	Total/NA	Water	3520C	

Analysis Batch: 445011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128342-2	1600780-MW-26	Total/NA	Water	8270D LL	444703
680-128342-4	1600780-MW-1	Total/NA	Water	8270D LL	444703
680-128342-5	1600780-MW-18	Total/NA	Water	8270D LL	444703
680-128342-6	1600780-DUP-1	Total/NA	Water	8270D LL	444703
MB 680-444703/18-A	Method Blank	Total/NA	Water	8270D LL	444703
LCS 680-444703/19-A	Lab Control Sample	Total/NA	Water	8270D LL	444703
LCSD 680-444703/20-A	Lab Control Sample Dup	Total/NA	Water	8270D LL	444703
680-128342-5 MS	1600780-MW-18 MS	Total/NA	Water	8270D LL	444703
680-128342-5 MSD	1600780-MW-18 MSD	Total/NA	Water	8270D LL	444703

Analysis Batch: 445158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128342-3	1600780-MW-12	Dissolved	Water	8270D LL	444703
680-128342-3 - DL	1600780-MW-12	Dissolved	Water	8270D LL	444703
680-128342-3	1600780-MW-12	Total/NA	Water	8270D LL	444703
680-128342-3 - DL	1600780-MW-12	Total/NA	Water	8270D LL	444703
680-128342-4 - DL	1600780-MW-1	Total/NA	Water	8270D LL	444703
680-128342-5 - DL	1600780-MW-18	Total/NA	Water	8270D LL	444703
680-128342-5 - DL2	1600780-MW-18	Total/NA	Water	8270D LL	444703
680-128342-6 - DL	1600780-DUP-1	Total/NA	Water	8270D LL	444703
680-128342-8	1600780-MW-23	Total/NA	Water	8270D LL	444703
680-128342-8 - DL	1600780-MW-23	Total/NA	Water	8270D LL	444703
680-128342-9	1600780-MW-25	Total/NA	Water	8270D LL	444703
680-128342-10	1600780-MW-C	Dissolved	Water	8270D LL	444703
680-128342-10 - DL	1600780-MW-C	Dissolved	Water	8270D LL	444703
680-128342-10	1600780-MW-C	Total/NA	Water	8270D LL	444703

GC/MS Semi VOA (Continued)

Analysis Batch: 445158 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128342-10 - DL	1600780-MW-C	Total/NA	Water	8270D LL	444703

HPLC/IC

Analysis Batch: 444459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128342-4	1600780-MW-1	Total/NA	Water	300.0-1993 R2.1	
680-128342-5	1600780-MW-18	Total/NA	Water	300.0-1993 R2.1	
680-128342-6	1600780-DUP-1	Total/NA	Water	300.0-1993 R2.1	
680-128342-8	1600780-MW-23	Total/NA	Water	300.0-1993 R2.1	
680-128342-9	1600780-MW-25	Total/NA	Water	300.0-1993 R2.1	
680-128342-10	1600780-MW-C	Total/NA	Water	300.0-1993 R2.1	
MB 680-444459/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-444459/3	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-444459/4	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-128342-5 MS	1600780-MW-18 MS	Total/NA	Water	300.0-1993 R2.1	
680-128342-5 MSD	1600780-MW-18 MSD	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 444550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128342-2	1600780-MW-26	Total/NA	Water	300.0-1993 R2.1	
680-128342-3	1600780-MW-12	Total/NA	Water	300.0-1993 R2.1	
MB 680-444550/37	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-444550/38	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-444550/39	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 445674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128342-2	1600780-MW-26	Total/NA	Water	300.0-1993 R2.1	
680-128342-3	1600780-MW-12	Total/NA	Water	300.0-1993 R2.1	
680-128342-4	1600780-MW-1	Total/NA	Water	300.0-1993 R2.1	
680-128342-6	1600780-DUP-1	Total/NA	Water	300.0-1993 R2.1	
680-128342-8	1600780-MW-23	Total/NA	Water	300.0-1993 R2.1	
680-128342-9	1600780-MW-25	Total/NA	Water	300.0-1993 R2.1	
680-128342-10	1600780-MW-C	Total/NA	Water	300.0-1993 R2.1	
MB 680-445674/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-445674/3	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-445674/4	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 445894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128342-2	1600780-MW-26	Total/NA	Water	300.0-1993 R2.1	
680-128342-3	1600780-MW-12	Total/NA	Water	300.0-1993 R2.1	
680-128342-4	1600780-MW-1	Total/NA	Water	300.0-1993 R2.1	
680-128342-5	1600780-MW-18	Total/NA	Water	300.0-1993 R2.1	
680-128342-6	1600780-DUP-1	Total/NA	Water	300.0-1993 R2.1	
680-128342-6	1600780-DUP-1	Total/NA	Water	300.0-1993 R2.1	
680-128342-8	1600780-MW-23	Total/NA	Water	300.0-1993 R2.1	
680-128342-9	1600780-MW-25	Total/NA	Water	300.0-1993 R2.1	
680-128342-9	1600780-MW-25	Total/NA	Water	300.0-1993 R2.1	

HPLC/IC (Continued)

Analysis Batch: 445894 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128342-10	1600780-MW-C	Total/NA	Water	300.0-1993 R2.1	
MB 680-445894/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-445894/3	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-445894/4	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-128342-5 MS	1600780-MW-18 MS	Total/NA	Water	300.0-1993 R2.1	
680-128342-5 MSD	1600780-MW-18 MSD	Total/NA	Water	300.0-1993 R2.1	
680-128342-10 MS	1600780-MW-C	Total/NA	Water	300.0-1993 R2.1	
680-128342-10 MSD	1600780-MW-C	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 445896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128342-5	1600780-MW-18	Total/NA	Water	300.0-1993 R2.1	
MB 680-445896/36	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-445896/37	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-445896/38	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-128342-5 MS	1600780-MW-18 MS	Total/NA	Water	300.0-1993 R2.1	
680-128342-5 MSD	1600780-MW-18 MSD	Total/NA	Water	300.0-1993 R2.1	

Metals

Prep Batch: 444731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128342-2	1600780-MW-26	Total/NA	Water	3010A	
680-128342-3	1600780-MW-12	Total/NA	Water	3010A	
680-128342-4	1600780-MW-1	Total/NA	Water	3010A	
680-128342-5	1600780-MW-18	Total/NA	Water	3010A	
680-128342-6	1600780-DUP-1	Total/NA	Water	3010A	
680-128342-8	1600780-MW-23	Total/NA	Water	3010A	
680-128342-9	1600780-MW-25	Total/NA	Water	3010A	
680-128342-10	1600780-MW-C	Total/NA	Water	3010A	
MB 680-444731/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-444731/2-A	Lab Control Sample	Total/NA	Water	3010A	
680-128342-5 MS	1600780-MW-18 MS	Total/NA	Water	3010A	
680-128342-5 MSD	1600780-MW-18 MSD	Total/NA	Water	3010A	

Analysis Batch: 444929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128342-2	1600780-MW-26	Total/NA	Water	6010C	444731
680-128342-3	1600780-MW-12	Total/NA	Water	6010C	444731
680-128342-4	1600780-MW-1	Total/NA	Water	6010C	444731
680-128342-5	1600780-MW-18	Total/NA	Water	6010C	444731
680-128342-6	1600780-DUP-1	Total/NA	Water	6010C	444731
680-128342-8	1600780-MW-23	Total/NA	Water	6010C	444731
680-128342-9	1600780-MW-25	Total/NA	Water	6010C	444731
680-128342-10	1600780-MW-C	Total/NA	Water	6010C	444731
MB 680-444731/1-A	Method Blank	Total/NA	Water	6010C	444731
LCS 680-444731/2-A	Lab Control Sample	Total/NA	Water	6010C	444731
680-128342-5 MS	1600780-MW-18 MS	Total/NA	Water	6010C	444731
680-128342-5 MSD	1600780-MW-18 MSD	Total/NA	Water	6010C	444731

Metals (Continued)

Prep Batch: 444942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128342-2	1600780-MW-26	Total/NA	Water	7470A	
680-128342-3	1600780-MW-12	Total/NA	Water	7470A	
680-128342-4	1600780-MW-1	Total/NA	Water	7470A	
680-128342-5	1600780-MW-18	Total/NA	Water	7470A	
680-128342-6	1600780-DUP-1	Total/NA	Water	7470A	
680-128342-8	1600780-MW-23	Total/NA	Water	7470A	
680-128342-9	1600780-MW-25	Total/NA	Water	7470A	
680-128342-10	1600780-MW-C	Total/NA	Water	7470A	
MB 680-444942/13-A	Method Blank	Total/NA	Water	7470A	
LCS 680-444942/14-A	Lab Control Sample	Total/NA	Water	7470A	
680-128342-5 MS	1600780-MW-18 MS	Total/NA	Water	7470A	
680-128342-5 MSD	1600780-MW-18 MSD	Total/NA	Water	7470A	

Analysis Batch: 445294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128342-2	1600780-MW-26	Total/NA	Water	7470A	444942
680-128342-3	1600780-MW-12	Total/NA	Water	7470A	444942
680-128342-4	1600780-MW-1	Total/NA	Water	7470A	444942
680-128342-5	1600780-MW-18	Total/NA	Water	7470A	444942
680-128342-6	1600780-DUP-1	Total/NA	Water	7470A	444942
680-128342-8	1600780-MW-23	Total/NA	Water	7470A	444942
680-128342-9	1600780-MW-25	Total/NA	Water	7470A	444942
680-128342-10	1600780-MW-C	Total/NA	Water	7470A	444942
MB 680-444942/13-A	Method Blank	Total/NA	Water	7470A	444942
LCS 680-444942/14-A	Lab Control Sample	Total/NA	Water	7470A	444942
680-128342-5 MS	1600780-MW-18 MS	Total/NA	Water	7470A	444942
680-128342-5 MSD	1600780-MW-18 MSD	Total/NA	Water	7470A	444942

Analysis Batch: 446234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128342-3	1600780-MW-12	Total/NA	Water	6010C	444731
680-128342-4	1600780-MW-1	Total/NA	Water	6010C	444731
680-128342-8	1600780-MW-23	Total/NA	Water	6010C	444731
680-128342-9	1600780-MW-25	Total/NA	Water	6010C	444731
680-128342-10	1600780-MW-C	Total/NA	Water	6010C	444731

Prep Batch: 446505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128342-3	1600780-MW-12	Dissolved	Water	3010A	
680-128342-10	1600780-MW-C	Dissolved	Water	3010A	
MB 680-446505/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-446505/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 680-446505/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	

Prep Batch: 446506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128342-3	1600780-MW-12	Dissolved	Water	7470A	
680-128342-10	1600780-MW-C	Dissolved	Water	7470A	
MB 680-446506/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-446506/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-128342-3 MS	1600780-MW-12	Dissolved	Water	7470A	

Metals (Continued)

Prep Batch: 446506 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128342-3 MSD	1600780-MW-12	Dissolved	Water	7470A	

Analysis Batch: 446711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128342-3	1600780-MW-12	Dissolved	Water	7470A	446506
680-128342-10	1600780-MW-C	Dissolved	Water	7470A	446506
MB 680-446506/1-A	Method Blank	Total/NA	Water	7470A	446506
LCS 680-446506/2-A	Lab Control Sample	Total/NA	Water	7470A	446506
680-128342-3 MS	1600780-MW-12	Dissolved	Water	7470A	446506
680-128342-3 MSD	1600780-MW-12	Dissolved	Water	7470A	446506

Analysis Batch: 446861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128342-3	1600780-MW-12	Dissolved	Water	6010C	446505
680-128342-10	1600780-MW-C	Dissolved	Water	6010C	446505
MB 680-446505/1-A	Method Blank	Total/NA	Water	6010C	446505
LCS 680-446505/2-A	Lab Control Sample	Total/NA	Water	6010C	446505
LCSD 680-446505/3-A	Lab Control Sample Dup	Total/NA	Water	6010C	446505

General Chemistry

Analysis Batch: 444932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128342-2	1600780-MW-26	Total/NA	Water	2540C-2011	
680-128342-5	1600780-MW-18	Total/NA	Water	2540C-2011	
680-128342-6	1600780-DUP-1	Total/NA	Water	2540C-2011	
680-128342-8	1600780-MW-23	Total/NA	Water	2540C-2011	
680-128342-11	1600780-GSP-10	Total/NA	Water	2540C-2011	
MB 680-444932/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-444932/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-444932/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	

Analysis Batch: 444964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128342-3	1600780-MW-12	Total/NA	Water	2540C-2011	
680-128342-4	1600780-MW-1	Total/NA	Water	2540C-2011	
680-128342-9	1600780-MW-25	Total/NA	Water	2540C-2011	
680-128342-10	1600780-MW-C	Total/NA	Water	2540C-2011	
MB 680-444964/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-444964/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-444964/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	

Analysis Batch: 445048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128342-2	1600780-MW-26	Total/NA	Water	2320B-2011	
680-128342-3	1600780-MW-12	Total/NA	Water	2320B-2011	
680-128342-4	1600780-MW-1	Total/NA	Water	2320B-2011	
680-128342-5	1600780-MW-18	Total/NA	Water	2320B-2011	
MB 680-445048/7	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-445048/8	Lab Control Sample	Total/NA	Water	2320B-2011	

General Chemistry (Continued)

Analysis Batch: 445048 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 680-445048/34	Lab Control Sample Dup	Total/NA	Water	2320B-2011	

Analysis Batch: 445236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128342-2	1600780-MW-26	Total/NA	Water	376.1-1978	
680-128342-3	1600780-MW-12	Total/NA	Water	376.1-1978	
680-128342-4	1600780-MW-1	Total/NA	Water	376.1-1978	
680-128342-5	1600780-MW-18	Total/NA	Water	376.1-1978	
680-128342-6	1600780-DUP-1	Total/NA	Water	376.1-1978	
680-128342-8	1600780-MW-23	Total/NA	Water	376.1-1978	
680-128342-9	1600780-MW-25	Total/NA	Water	376.1-1978	
680-128342-10	1600780-MW-C	Total/NA	Water	376.1-1978	
680-128342-11	1600780-GSP-10	Total/NA	Water	376.1-1978	
MB 680-445236/1	Method Blank	Total/NA	Water	376.1-1978	
LCS 680-445236/2	Lab Control Sample	Total/NA	Water	376.1-1978	
680-128342-5 MS	1600780-MW-18 MS	Total/NA	Water	376.1-1978	
680-128342-5 MSD	1600780-MW-18 MSD	Total/NA	Water	376.1-1978	

Analysis Batch: 445358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-445358/7	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-445358/8	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-445358/27	Lab Control Sample Dup	Total/NA	Water	2320B-2011	

Analysis Batch: 445840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128342-6	1600780-DUP-1	Total/NA	Water	2320B-2011	
680-128342-9	1600780-MW-25	Total/NA	Water	2320B-2011	
MB 680-445840/7	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-445840/8	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-445840/34	Lab Control Sample Dup	Total/NA	Water	2320B-2011	

Analysis Batch: 445841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128342-8	1600780-MW-23	Total/NA	Water	2320B-2011	
680-128342-10	1600780-MW-C	Total/NA	Water	2320B-2011	
680-128342-11	1600780-GSP-10	Total/NA	Water	2320B-2011	
MB 680-445841/3	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-445841/4	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-445841/30	Lab Control Sample Dup	Total/NA	Water	2320B-2011	
680-128342-11 DU	1600780-GSP-10	Total/NA	Water	2320B-2011	

Prep Batch: 445856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128342-2	1600780-MW-26	Total/NA	Water	Digestion	
680-128342-3	1600780-MW-12	Total/NA	Water	Digestion	
680-128342-6	1600780-DUP-1	Total/NA	Water	Digestion	
680-128342-10	1600780-MW-C	Total/NA	Water	Digestion	
MB 680-445856/10-A	Method Blank	Total/NA	Water	Digestion	
LCS 680-445856/11-A	Lab Control Sample	Total/NA	Water	Digestion	

General Chemistry (Continued)

Prep Batch: 445866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128342-4	1600780-MW-1	Total/NA	Water	Digestion	
680-128342-8	1600780-MW-23	Total/NA	Water	Digestion	
680-128342-9	1600780-MW-25	Total/NA	Water	Digestion	
680-128342-11	1600780-GSP-10	Total/NA	Water	Digestion	
MB 680-445866/1-A	Method Blank	Total/NA	Water	Digestion	
LCS 680-445866/2-A	Lab Control Sample	Total/NA	Water	Digestion	

Prep Batch: 445868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128342-5	1600780-MW-18	Total/NA	Water	Digestion	
MB 680-445868/1-A	Method Blank	Total/NA	Water	Digestion	
LCS 680-445868/2-A	Lab Control Sample	Total/NA	Water	Digestion	
680-128342-5 MS	1600780-MW-18 MS	Total/NA	Water	Digestion	
680-128342-5 MSD	1600780-MW-18 MSD	Total/NA	Water	Digestion	

Analysis Batch: 445936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128342-2	1600780-MW-26	Total/NA	Water	350.1-1993 R2.0	
680-128342-3	1600780-MW-12	Total/NA	Water	350.1-1993 R2.0	
680-128342-4	1600780-MW-1	Total/NA	Water	350.1-1993 R2.0	
680-128342-5	1600780-MW-18	Total/NA	Water	350.1-1993 R2.0	
680-128342-6	1600780-DUP-1	Total/NA	Water	350.1-1993 R2.0	
680-128342-8	1600780-MW-23	Total/NA	Water	350.1-1993 R2.0	
680-128342-9	1600780-MW-25	Total/NA	Water	350.1-1993 R2.0	
680-128342-10	1600780-MW-C	Total/NA	Water	350.1-1993 R2.0	
680-128342-11	1600780-GSP-10	Total/NA	Water	350.1-1993 R2.0	
MB 680-445936/11	Method Blank	Total/NA	Water	350.1-1993 R2.0	
LCS 680-445936/2	Lab Control Sample	Total/NA	Water	350.1-1993 R2.0	
LCSD 680-445936/12	Lab Control Sample Dup	Total/NA	Water	350.1-1993 R2.0	
680-128342-5 MS	1600780-MW-18 MS	Total/NA	Water	350.1-1993 R2.0	
680-128342-5 MSD	1600780-MW-18 MSD	Total/NA	Water	350.1-1993 R2.0	

Analysis Batch: 446104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128342-2	1600780-MW-26	Total/NA	Water	365.4-1974	445856
680-128342-3	1600780-MW-12	Total/NA	Water	365.4-1974	445856
680-128342-4	1600780-MW-1	Total/NA	Water	365.4-1974	445866
680-128342-5	1600780-MW-18	Total/NA	Water	365.4-1974	445868
680-128342-6	1600780-DUP-1	Total/NA	Water	365.4-1974	445856
680-128342-8	1600780-MW-23	Total/NA	Water	365.4-1974	445866
680-128342-9	1600780-MW-25	Total/NA	Water	365.4-1974	445866
680-128342-10	1600780-MW-C	Total/NA	Water	365.4-1974	445856
680-128342-11	1600780-GSP-10	Total/NA	Water	365.4-1974	445866
MB 680-445856/10-A	Method Blank	Total/NA	Water	365.4-1974	445856
MB 680-445866/1-A	Method Blank	Total/NA	Water	365.4-1974	445866
MB 680-445868/1-A	Method Blank	Total/NA	Water	365.4-1974	445868
LCS 680-445856/11-A	Lab Control Sample	Total/NA	Water	365.4-1974	445856
LCS 680-445866/2-A	Lab Control Sample	Total/NA	Water	365.4-1974	445866
LCS 680-445868/2-A	Lab Control Sample	Total/NA	Water	365.4-1974	445868
680-128342-5 MS	1600780-MW-18 MS	Total/NA	Water	365.4-1974	445868
680-128342-5 MSD	1600780-MW-18 MSD	Total/NA	Water	365.4-1974	445868

Lab Chronicle

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128342-1

Client Sample ID: Trip Blank — Lab Sample ID: 680-128342-1

Date Collected: 08/04/16 00:00 — **Matrix: Water**
Date Received: 08/05/16 08:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	445481	08/12/16 17:05	SMC	TAL SAV
	Instrument ID:	CMSP2								

Client Sample ID: 1600780-MW-26 — Lab Sample ID: 680-128342-2

Date Collected: 08/04/16 09:45 — **Matrix: Water**
Date Received: 08/05/16 08:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	445481	08/12/16 17:50	SMC	TAL SAV
	Instrument ID:	CMSP2								
Total/NA	Prep	3520C			1050.6 mL	1 mL	444703	08/08/16 15:47	RBS	TAL SAV
Total/NA	Analysis	8270D LL		1			445011	08/09/16 18:52	JEM	TAL SAV
	Instrument ID:	CMSW								
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	444550	08/05/16 21:48	ALR	TAL SAV
	Instrument ID:	CICG								
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	445674	08/15/16 12:34	JRJ	TAL SAV
	Instrument ID:	CICK								
Total/NA	Analysis	300.0-1993 R2.1		4	5 mL	5 mL	445894	08/16/16 12:16	JRJ	TAL SAV
	Instrument ID:	CICK								
Total/NA	Prep	3010A			50 mL	50 mL	444731	08/08/16 10:53	AJR	TAL SAV
Total/NA	Analysis	6010C		1			444929	08/09/16 02:03	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Prep	7470A			50 mL	50 mL	444942	08/09/16 12:28	JKL	TAL SAV
Total/NA	Analysis	7470A		1			445294	08/10/16 15:42	JKL	TAL SAV
	Instrument ID:	LEEMAN2								
Total/NA	Analysis	2320B-2011		1			445048	08/09/16 19:11	JCM	TAL SAV
	Instrument ID:	MANTECH								
Total/NA	Analysis	2540C-2011		1	50 mL	100 mL	444932	08/09/16 11:54	LAF	TAL SAV
	Instrument ID:	NOEQUIP								
Total/NA	Analysis	350.1-1993 R2.0		1	2 mL	2 mL	445936	08/16/16 10:21	ALS	TAL SAV
	Instrument ID:	KONELAB1								
Total/NA	Prep	Digestion			20 mL	20 mL	445856	08/16/16 09:19	CFJ	TAL SAV
Total/NA	Analysis	365.4-1974		1	2 mL	2 mL	446104	08/17/16 10:34	JER	TAL SAV
	Instrument ID:	LACHAT3								
Total/NA	Analysis	376.1-1978		1	250 mL	250 mL	445236	08/11/16 07:50	DAM	TAL SAV
	Instrument ID:	NOEQUIP								

Client Sample ID: 1600780-MW-12 — Lab Sample ID: 680-128342-3

Date Collected: 08/04/16 09:27 — **Matrix: Water**
Date Received: 08/05/16 08:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	DL	100	5 mL	5 mL	446183	08/18/16 10:30	CEJ	TAL SAV

Lab Chronicle

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128342-1

Client Sample ID: 1600780-MW-12

Date Collected: 08/04/16 09:27
Date Received: 08/05/16 08:59

Lab Sample ID: 680-128342-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	DL	100	5 mL	5 mL	446183	08/18/16 10:30	CEJ	TAL SAV
	Instrument ID:	CMSA2								
Total/NA	Analysis	8260B		10	5 mL	5 mL	445481	08/12/16 18:12	SMC	TAL SAV
	Instrument ID:	CMSP2								
Total/NA	Analysis	8260B		20	5 mL	5 mL	445597	08/13/16 14:18	SMS	TAL SAV
	Instrument ID:	CMSP2								
Dissolved	Prep	3520C			1049.7 mL	1 mL	444703	08/08/16 15:47	RBS	TAL SAV
Dissolved	Analysis	8270D LL		10			445158	08/10/16 18:54	JEM	TAL SAV
	Instrument ID:	CMSW								
Dissolved	Prep	3520C	DL		1049.7 mL	1 mL	444703	08/08/16 15:47	RBS	TAL SAV
Dissolved	Analysis	8270D LL	DL	100			445158	08/10/16 19:19	JEM	TAL SAV
	Instrument ID:	CMSW								
Total/NA	Prep	3520C			1048.8 mL	1 mL	444703	08/08/16 15:47	RBS	TAL SAV
Total/NA	Analysis	8270D LL		10			445158	08/10/16 18:04	JEM	TAL SAV
	Instrument ID:	CMSW								
Total/NA	Prep	3520C	DL		1048.8 mL	1 mL	444703	08/08/16 15:47	RBS	TAL SAV
Total/NA	Analysis	8270D LL	DL	100			445158	08/10/16 18:29	JEM	TAL SAV
	Instrument ID:	CMSW								
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	444550	08/05/16 22:04	ALR	TAL SAV
	Instrument ID:	CICG								
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	445674	08/15/16 12:51	JRJ	TAL SAV
	Instrument ID:	CICK								
Total/NA	Analysis	300.0-1993 R2.1		10	5 mL	5 mL	445894	08/16/16 12:34	JRJ	TAL SAV
	Instrument ID:	CICK								
Dissolved	Prep	3010A			50 mL	50 mL	446505	08/19/16 13:50	AJR	TAL SAV
Dissolved	Analysis	6010C		1			446861	08/22/16 19:33	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Prep	3010A			50 mL	50 mL	444731	08/08/16 10:53	AJR	TAL SAV
Total/NA	Analysis	6010C		1			444929	08/09/16 02:08	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Prep	3010A			50 mL	50 mL	444731	08/08/16 10:53	AJR	TAL SAV
Total/NA	Analysis	6010C		10			446234	08/17/16 23:50	BCB	TAL SAV
	Instrument ID:	ICPE								
Dissolved	Prep	7470A			50 mL	50 mL	446506	08/19/16 14:20	JKL	TAL SAV
Dissolved	Analysis	7470A		1			446711	08/22/16 11:38	JKL	TAL SAV
	Instrument ID:	LEEMAN2								
Total/NA	Prep	7470A			50 mL	50 mL	444942	08/09/16 12:28	JKL	TAL SAV
Total/NA	Analysis	7470A		1			445294	08/10/16 15:47	JKL	TAL SAV
	Instrument ID:	LEEMAN2								
Total/NA	Analysis	2320B-2011		1			445048	08/09/16 19:36	JCM	TAL SAV
	Instrument ID:	MANTECH								
Total/NA	Analysis	2540C-2011		1	25 mL	100 mL	444964	08/09/16 13:37	LAF	TAL SAV
	Instrument ID:	NOEQUIP								

Lab Chronicle

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128342-1

Client Sample ID: 1600780-MW-12

Lab Sample ID: 680-128342-3
Date Collected: 08/04/16 09:27
Matrix: Water
Date Received: 08/05/16 08:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	350.1-1993 R2.0		1	2 mL	2 mL	445936	08/16/16 10:21	ALS	TAL SAV
	Instrument ID:	KONELAB1								
Total/NA	Prep	Digestion			20 mL	20 mL	445856	08/16/16 09:19	CFJ	TAL SAV
Total/NA	Analysis	365.4-1974		1	2 mL	2 mL	446104	08/17/16 10:44	JER	TAL SAV
	Instrument ID:	LACHAT3								
Total/NA	Analysis	376.1-1978		1	250 mL	250 mL	445236	08/11/16 07:50	DAM	TAL SAV
	Instrument ID:	NOEQUIP								

Client Sample ID: 1600780-MW-1

Lab Sample ID: 680-128342-4
Date Collected: 08/04/16 11:46
Matrix: Water
Date Received: 08/05/16 08:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	5 mL	5 mL	445597	08/13/16 14:41	SMS	TAL SAV
	Instrument ID:	CMSP2								
Total/NA	Prep	3520C			1035.9 mL	1 mL	444703	08/08/16 15:47	RBS	TAL SAV
Total/NA	Analysis	8270D LL		1			445011	08/09/16 20:05	JEM	TAL SAV
	Instrument ID:	CMSW								
Total/NA	Prep	3520C	DL		1035.9 mL	1 mL	444703	08/08/16 15:47	RBS	TAL SAV
Total/NA	Analysis	8270D LL	DL	5			445158	08/10/16 19:44	JEM	TAL SAV
	Instrument ID:	CMSW								
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	444459	08/05/16 15:31	ALR	TAL SAV
	Instrument ID:	CICG								
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	445674	08/15/16 13:09	JRJ	TAL SAV
	Instrument ID:	CICK								
Total/NA	Analysis	300.0-1993 R2.1		25	5 mL	5 mL	445894	08/16/16 12:51	JRJ	TAL SAV
	Instrument ID:	CICK								
Total/NA	Prep	3010A			50 mL	50 mL	444731	08/08/16 10:53	AJR	TAL SAV
Total/NA	Analysis	6010C		1			444929	08/09/16 02:12	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Prep	3010A			50 mL	50 mL	444731	08/08/16 10:53	AJR	TAL SAV
Total/NA	Analysis	6010C		10			446234	08/17/16 23:55	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Prep	7470A			50 mL	50 mL	444942	08/09/16 12:28	JKL	TAL SAV
Total/NA	Analysis	7470A		1			445294	08/10/16 15:51	JKL	TAL SAV
	Instrument ID:	LEEMAN2								
Total/NA	Analysis	2320B-2011		1			445048	08/09/16 19:22	JCM	TAL SAV
	Instrument ID:	MANTECH								
Total/NA	Analysis	2540C-2011		1	25 mL	100 mL	444964	08/09/16 13:37	LAF	TAL SAV
	Instrument ID:	NOEQUIP								
Total/NA	Analysis	350.1-1993 R2.0		1	2 mL	2 mL	445936	08/16/16 10:21	ALS	TAL SAV
	Instrument ID:	KONELAB1								
Total/NA	Prep	Digestion			20 mL	20 mL	445866	08/16/16 09:35	CFJ	TAL SAV

Lab Chronicle

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128342-1

Client Sample ID: 1600780-MW-1 — Lab Sample ID: 680-128342-4

Date Collected: 08/04/16 11:46 — **Matrix: Water**
Date Received: 08/05/16 08:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	365.4-1974		1	2 mL	2 mL	446104	08/17/16 11:09	JER	TAL SAV
	Instrument ID: LACHAT3									
Total/NA	Analysis	376.1-1978		1	250 mL	250 mL	445236	08/11/16 07:50	DAM	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: 1600780-MW-18 — Lab Sample ID: 680-128342-5

Date Collected: 08/04/16 12:04 — **Matrix: Water**
Date Received: 08/05/16 08:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	5 mL	5 mL	445597	08/13/16 15:03	SMS	TAL SAV
	Instrument ID: CMSP2									
Total/NA	Prep	3520C			1048.2 mL	1 mL	444703	08/08/16 15:47	RBS	TAL SAV
Total/NA	Analysis	8270D LL		1			445011	08/09/16 20:29	JEM	TAL SAV
	Instrument ID: CMSW									
Total/NA	Prep	3520C	DL		1048.2 mL	1 mL	444703	08/08/16 15:47	RBS	TAL SAV
Total/NA	Analysis	8270D LL	DL	5			445158	08/10/16 20:09	JEM	TAL SAV
	Instrument ID: CMSW									
Total/NA	Prep	3520C	DL2		1048.2 mL	1 mL	444703	08/08/16 15:47	RBS	TAL SAV
Total/NA	Analysis	8270D LL	DL2	50			445158	08/10/16 20:34	JEM	TAL SAV
	Instrument ID: CMSW									
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	444459	08/05/16 16:03	ALR	TAL SAV
	Instrument ID: CICG									
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	445896	08/15/16 20:24	JRJ	TAL SAV
	Instrument ID: CICK									
Total/NA	Analysis	300.0-1993 R2.1		10	5 mL	5 mL	445894	08/16/16 11:24	JRJ	TAL SAV
	Instrument ID: CICK									
Total/NA	Prep	3010A			50 mL	50 mL	444731	08/08/16 10:53	AJR	TAL SAV
Total/NA	Analysis	6010C		1			444929	08/09/16 02:17	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Prep	7470A			50 mL	50 mL	444942	08/09/16 12:28	JKL	TAL SAV
Total/NA	Analysis	7470A		1			445294	08/10/16 15:56	JKL	TAL SAV
	Instrument ID: LEEMAN2									
Total/NA	Analysis	2320B-2011		1			445048	08/09/16 19:46	JCM	TAL SAV
	Instrument ID: MANTECH									
Total/NA	Analysis	2540C-2011		1	50 mL	100 mL	444932	08/09/16 11:54	LAF	TAL SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	350.1-1993 R2.0		1	2 mL	2 mL	445936	08/16/16 10:12	ALS	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Prep	Digestion			20 mL	20 mL	445868	08/16/16 09:40	CFJ	TAL SAV
Total/NA	Analysis	365.4-1974		1	2 mL	2 mL	446104	08/17/16 11:23	JER	TAL SAV
	Instrument ID: LACHAT3									
Total/NA	Analysis	376.1-1978		1	250 mL	250 mL	445236	08/11/16 07:50	DAM	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: 1600780-DUP-1 — Lab Sample ID: 680-128342-6

Date Collected: 08/04/16 12:00 — **Matrix: Water**
Date Received: 08/05/16 08:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	5 mL	5 mL	445597	08/13/16 15:26	SMS	TAL SAV
	Instrument ID:	CMSP2								
Total/NA	Prep	3520C			1049.6 mL	1 mL	444703	08/08/16 15:47	RBS	TAL SAV
Total/NA	Analysis	8270D LL		1			445011	08/09/16 20:53	JEM	TAL SAV
	Instrument ID:	CMSW								
Total/NA	Prep	3520C	DL		1049.6 mL	1 mL	444703	08/08/16 15:47	RBS	TAL SAV
Total/NA	Analysis	8270D LL	DL	10			445158	08/10/16 20:59	JEM	TAL SAV
	Instrument ID:	CMSW								
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	444459	08/05/16 15:47	ALR	TAL SAV
	Instrument ID:	CICG								
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	445674	08/15/16 15:46	JRJ	TAL SAV
	Instrument ID:	CICK								
Total/NA	Analysis	300.0-1993 R2.1		5	5 mL	5 mL	445894	08/16/16 13:08	JRJ	TAL SAV
	Instrument ID:	CICK								
Total/NA	Analysis	300.0-1993 R2.1		25	5 mL	5 mL	445894	08/16/16 13:26	JRJ	TAL SAV
	Instrument ID:	CICK								
Total/NA	Prep	3010A			50 mL	50 mL	444731	08/08/16 10:53	AJR	TAL SAV
Total/NA	Analysis	6010C		1			444929	08/09/16 02:50	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Prep	7470A			50 mL	50 mL	444942	08/09/16 12:28	JKL	TAL SAV
Total/NA	Analysis	7470A		1			445294	08/10/16 16:09	JKL	TAL SAV
	Instrument ID:	LEEMAN2								
Total/NA	Analysis	2320B-2011		1			445840	08/15/16 18:34	JCM	TAL SAV
	Instrument ID:	MANTECH								
Total/NA	Analysis	2540C-2011		1	50 mL	100 mL	444932	08/09/16 11:54	LAF	TAL SAV
	Instrument ID:	NOEQUIP								
Total/NA	Analysis	350.1-1993 R2.0		1	2 mL	2 mL	445936	08/16/16 10:21	ALS	TAL SAV
	Instrument ID:	KONELAB1								
Total/NA	Prep	Digestion			20 mL	20 mL	445856	08/16/16 09:19	CFJ	TAL SAV
Total/NA	Analysis	365.4-1974		1	2 mL	2 mL	446104	08/17/16 10:35	JER	TAL SAV
	Instrument ID:	LACHAT3								
Total/NA	Analysis	376.1-1978		1	250 mL	250 mL	445236	08/11/16 07:50	DAM	TAL SAV
	Instrument ID:	NOEQUIP								

Client Sample ID: 1600780-FB-3 — Lab Sample ID: 680-128342-7

Date Collected: 08/04/16 14:45 — **Matrix: Water**
Date Received: 08/05/16 08:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	445481	08/12/16 17:28	SMC	TAL SAV
	Instrument ID:	CMSP2								

Client Sample ID: 1600780-MW-23 — Lab Sample ID: 680-128342-8

Date Collected: 08/04/16 15:44 — **Matrix: Water**
Date Received: 08/05/16 08:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	DL	200	5 mL	5 mL	446183	08/18/16 10:51	CEJ	TAL SAV
	Instrument ID: CMSA2									
Total/NA	Analysis	8260B		100	5 mL	5 mL	445597	08/13/16 15:48	SMS	TAL SAV
	Instrument ID: CMSP2									
Total/NA	Prep	3520C			1044.8 mL	1 mL	444703	08/08/16 15:47	RBS	TAL SAV
Total/NA	Analysis	8270D LL		10			445158	08/10/16 21:23	JEM	TAL SAV
	Instrument ID: CMSW									
Total/NA	Prep	3520C	DL		1044.8 mL	1 mL	444703	08/08/16 15:47	RBS	TAL SAV
Total/NA	Analysis	8270D LL	DL	100			445158	08/10/16 21:48	JEM	TAL SAV
	Instrument ID: CMSW									
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	444459	08/05/16 16:53	ALR	TAL SAV
	Instrument ID: CICG									
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	445674	08/15/16 16:03	JRJ	TAL SAV
	Instrument ID: CICK									
Total/NA	Analysis	300.0-1993 R2.1		10	5 mL	5 mL	445894	08/16/16 13:43	JRJ	TAL SAV
	Instrument ID: CICK									
Total/NA	Prep	3010A			50 mL	50 mL	444731	08/08/16 10:53	AJR	TAL SAV
Total/NA	Analysis	6010C		1			444929	08/09/16 02:55	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Prep	3010A			50 mL	50 mL	444731	08/08/16 10:53	AJR	TAL SAV
Total/NA	Analysis	6010C		10			446234	08/17/16 23:59	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Prep	7470A			50 mL	50 mL	444942	08/09/16 12:28	JKL	TAL SAV
Total/NA	Analysis	7470A		1			445294	08/10/16 16:14	JKL	TAL SAV
	Instrument ID: LEEMAN2									
Total/NA	Analysis	2320B-2011		1			445841	08/15/16 19:22	JCM	TAL SAV
	Instrument ID: MANTECH									
Total/NA	Analysis	2540C-2011		1	50 mL	100 mL	444932	08/09/16 11:54	LAF	TAL SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	350.1-1993 R2.0		1	2 mL	2 mL	445936	08/16/16 10:21	ALS	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Prep	Digestion			20 mL	20 mL	445866	08/16/16 09:35	CFJ	TAL SAV
Total/NA	Analysis	365.4-1974		1	2 mL	2 mL	446104	08/17/16 11:08	JER	TAL SAV
	Instrument ID: LACHAT3									
Total/NA	Analysis	376.1-1978		1	250 mL	250 mL	445236	08/11/16 07:50	DAM	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: 1600780-MW-25 — Lab Sample ID: 680-128342-9

Date Collected: 08/04/16 15:57 — **Matrix: Water**
Date Received: 08/05/16 08:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	445229	08/11/16 10:50	CEJ	TAL SAV
	Instrument ID: CMSA2									

Lab Chronicle

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128342-1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1049.4 mL	1 mL	444703	08/08/16 15:47	RBS	TAL SAV
Total/NA	Analysis	8270D LL		5			445158	08/10/16 22:13	JEM	TAL SAV
	Instrument ID:	CMSW								
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	444459	08/05/16 17:09	ALR	TAL SAV
	Instrument ID:	CICG								
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	445674	08/15/16 16:20	JRJ	TAL SAV
	Instrument ID:	CICK								
Total/NA	Analysis	300.0-1993 R2.1		5	5 mL	5 mL	445894	08/16/16 14:36	JRJ	TAL SAV
	Instrument ID:	CICK								
Total/NA	Analysis	300.0-1993 R2.1		10	5 mL	5 mL	445894	08/16/16 14:53	JRJ	TAL SAV
	Instrument ID:	CICK								
Total/NA	Prep	3010A			50 mL	50 mL	444731	08/08/16 10:53	AJR	TAL SAV
Total/NA	Analysis	6010C		1			444929	08/09/16 03:00	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Prep	3010A			50 mL	50 mL	444731	08/08/16 10:53	AJR	TAL SAV
Total/NA	Analysis	6010C		10			446234	08/18/16 00:12	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Prep	7470A			50 mL	50 mL	444942	08/09/16 12:28	JKL	TAL SAV
Total/NA	Analysis	7470A		1			445294	08/10/16 16:28	JKL	TAL SAV
	Instrument ID:	LEEMAN2								
Total/NA	Analysis	2320B-2011		1			445840	08/15/16 18:23	JCM	TAL SAV
	Instrument ID:	MANTECH								
Total/NA	Analysis	2540C-2011		1	25 mL	100 mL	444964	08/09/16 13:37	LAF	TAL SAV
	Instrument ID:	NOEQUIP								
Total/NA	Analysis	350.1-1993 R2.0		1	2 mL	2 mL	445936	08/16/16 10:21	ALS	TAL SAV
	Instrument ID:	KONELAB1								
Total/NA	Prep	Digestion			20 mL	20 mL	445866	08/16/16 09:35	CFJ	TAL SAV
Total/NA	Analysis	365.4-1974		1	2 mL	2 mL	446104	08/17/16 11:06	JER	TAL SAV
	Instrument ID:	LACHAT3								
Total/NA	Analysis	376.1-1978		1	250 mL	250 mL	445236	08/11/16 07:50	DAM	TAL SAV
	Instrument ID:	NOEQUIP								

Client Sample ID: 1600780-MW-C

Lab Sample ID: 680-128342-10

Date Collected: 08/04/16 12:50

Matrix: Water

Date Received: 08/05/16 08:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		100	5 mL	5 mL	446181	08/18/16 00:37	CEJ	TAL SAV
	Instrument ID:	CMSA2								
Total/NA	Analysis	8260B		50	5 mL	5 mL	445597	08/13/16 16:11	SMS	TAL SAV
	Instrument ID:	CMSP2								
Dissolved	Prep	3520C			1046.7 mL	1 mL	444703	08/08/16 15:47	RBS	TAL SAV
Dissolved	Analysis	8270D LL		10			445158	08/10/16 23:26	JEM	TAL SAV
	Instrument ID:	CMSW								
Dissolved	Prep	3520C	DL		1046.7 mL	1 mL	444703	08/08/16 15:47	RBS	TAL SAV
Dissolved	Analysis	8270D LL	DL	100			445158	08/10/16 23:51	JEM	TAL SAV
	Instrument ID:	CMSW								
Total/NA	Prep	3520C			1041.8 mL	1 mL	444703	08/08/16 15:47	RBS	TAL SAV

Client Sample ID: 1600780-MW-C — Lab Sample ID: 680-128342-10

Date Collected: 08/04/16 12:50 — **Matrix: Water**
Date Received: 08/05/16 08:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D LL		10			445158	08/10/16 22:37	JEM	TAL SAV
	Instrument ID:	CMSW								
Total/NA	Prep	3520C	DL		1041.8 mL	1 mL	444703	08/08/16 15:47	RBS	TAL SAV
Total/NA	Analysis	8270D LL	DL	100			445158	08/10/16 23:02	JEM	TAL SAV
	Instrument ID:	CMSW								
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	444459	08/05/16 17:26	ALR	TAL SAV
	Instrument ID:	CICG								
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	445674	08/15/16 16:38	JRJ	TAL SAV
	Instrument ID:	CICK								
Total/NA	Analysis	300.0-1993 R2.1		50	5 mL	5 mL	445894	08/16/16 15:10	JRJ	TAL SAV
	Instrument ID:	CICK								
Dissolved	Prep	3010A			50 mL	50 mL	446505	08/19/16 13:50	AJR	TAL SAV
Dissolved	Analysis	6010C		1			446861	08/22/16 19:28	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Prep	3010A			50 mL	50 mL	444731	08/08/16 10:53	AJR	TAL SAV
Total/NA	Analysis	6010C		1			444929	08/09/16 03:04	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Prep	3010A			50 mL	50 mL	444731	08/08/16 10:53	AJR	TAL SAV
Total/NA	Analysis	6010C		10			446234	08/18/16 00:16	BCB	TAL SAV
	Instrument ID:	ICPE								
Dissolved	Prep	7470A			50 mL	50 mL	446506	08/19/16 14:20	JKL	TAL SAV
Dissolved	Analysis	7470A		1			446711	08/22/16 11:51	JKL	TAL SAV
	Instrument ID:	LEEMAN2								
Total/NA	Prep	7470A			50 mL	50 mL	444942	08/09/16 12:28	JKL	TAL SAV
Total/NA	Analysis	7470A		1			445294	08/10/16 16:32	JKL	TAL SAV
	Instrument ID:	LEEMAN2								
Total/NA	Analysis	2320B-2011		1			445841	08/15/16 19:31	JCM	TAL SAV
	Instrument ID:	MANTECH								
Total/NA	Analysis	2540C-2011		1	25 mL	100 mL	444964	08/09/16 13:37	LAF	TAL SAV
	Instrument ID:	NOEQUIP								
Total/NA	Analysis	350.1-1993 R2.0		1	2 mL	2 mL	445936	08/16/16 10:21	ALS	TAL SAV
	Instrument ID:	KONELAB1								
Total/NA	Prep	Digestion			20 mL	20 mL	445856	08/16/16 09:19	CFJ	TAL SAV
Total/NA	Analysis	365.4-1974		1	2 mL	2 mL	446104	08/17/16 10:36	JER	TAL SAV
	Instrument ID:	LACHAT3								
Total/NA	Analysis	376.1-1978		1	250 mL	250 mL	445236	08/11/16 07:50	DAM	TAL SAV
	Instrument ID:	NOEQUIP								

Client Sample ID: 1600780-GSP-10 — Lab Sample ID: 680-128342-11

Date Collected: 08/04/16 09:02 — **Matrix: Water**
Date Received: 08/05/16 08:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2320B-2011		1			445841	08/15/16 20:13	JCM	TAL SAV

Lab Chronicle

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128342-1

Client Sample ID: 1600780-GSP-10

Date Collected: 08/04/16 09:02
Date Received: 08/05/16 08:59

Lab Sample ID: 680-128342-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2320B-2011		1			445841	08/15/16 20:13	JCM	TAL SAV
	Instrument ID:	MANTECH								
Total/NA	Analysis	2540C-2011		1	50 mL	100 mL	444932	08/09/16 11:54	LAF	TAL SAV
	Instrument ID:	NOEQUIP								
Total/NA	Analysis	350.1-1993 R2.0		1	2 mL	2 mL	445936	08/16/16 10:21	ALS	TAL SAV
	Instrument ID:	KONELAB1								
Total/NA	Prep	Digestion			20 mL	20 mL	445866	08/16/16 09:35	CFJ	TAL SAV
Total/NA	Analysis	365.4-1974		1	2 mL	2 mL	446104	08/17/16 11:07	JER	TAL SAV
	Instrument ID:	LACHAT3								
Total/NA	Analysis	376.1-1978		1	250 mL	250 mL	445236	08/11/16 07:50	DAM	TAL SAV
	Instrument ID:	NOEQUIP								

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Certification Summary

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128342-1

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-17
A2LA	ISO/IEC 17025		399.01	02-28-17
Alabama	State Program	4	41450	06-30-17
Alaska (UST)	State Program	10	UST-104	11-05-16
Arkansas DEQ	State Program	6	88-0692	01-31-17
California	State Program	9	2939	07-31-16 *
Colorado	State Program	8	N/A	12-31-16
Connecticut	State Program	1	PH-0161	03-31-17
Florida	NELAP	4	E87052	06-30-17
GA Dept. of Agriculture	State Program	4	N/A	06-12-17
Georgia	State Program	4	N/A	06-30-17
Georgia	State Program	4	803	06-30-17
Guam	State Program	9	15-005r	04-16-17
Hawaii	State Program	9	N/A	06-30-17
Illinois	NELAP	5	200022	11-30-16
Indiana	State Program	5	N/A	06-30-17
Iowa	State Program	7	353	06-30-17
Kentucky (DW)	State Program	4	90084	12-31-16
Kentucky (UST)	State Program	4	18	06-30-17
Kentucky (WW)	State Program	4	90084	12-31-16
Louisiana	NELAP	6	30690	06-30-17
Louisiana (DW)	NELAP	6	LA160019	12-31-16
Maine	State Program	1	GA00006	09-24-18
Maryland	State Program	3	250	12-31-16
Massachusetts	State Program	1	M-GA006	06-30-17
Michigan	State Program	5	9925	06-30-17
Mississippi	State Program	4	N/A	06-30-16 *
Nebraska	State Program	7	TestAmerica-Savannah	06-30-17
New Jersey	NELAP	2	GA769	06-30-17
New Mexico	State Program	6	N/A	06-30-17
New York	NELAP	2	10842	03-31-17
North Carolina (DW)	State Program	4	13701	07-31-17
North Carolina (WW/SW)	State Program	4	269	12-31-16
Oklahoma	State Program	6	9984	08-31-17
Pennsylvania	NELAP	3	68-00474	06-30-17
Puerto Rico	State Program	2	GA00006	12-31-16
South Carolina	State Program	4	98001	06-30-17
Tennessee	State Program	4	TN02961	06-30-17
Texas	NELAP	6	T104704185-15-8	11-30-16
USDA	Federal		SAV 3-04	06-11-17
Virginia	NELAP	3	460161	06-14-17
Washington	State Program	10	C805	06-10-17
West Virginia (DW)	State Program	3	9950C	12-31-16
West Virginia DEP	State Program	3	094	08-31-16
Wisconsin	State Program	5	999819810	08-31-17
Wyoming	State Program	8	8TMS-L	06-30-16 *

* Certification renewal pending - certification considered valid.

Method Summary

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128342-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL SAV
300.0-1993 R2.1	Anions, Ion Chromatography	MCAWW	TAL SAV
6010C	Metals (ICP)	SW846	TAL SAV
7470A	Mercury (CVAA)	SW846	TAL SAV
2320B-2011	Alkalinity, Total	SM	TAL SAV
2540C-2011	Total Dissolved Solids (Dried at 180 °C)	SM	TAL SAV
350.1-1993 R2.0	Nitrogen, Ammonia	MCAWW	TAL SAV
365.4-1974	Phosphorus, Total	EPA	TAL SAV
376.1-1978	Sulfide	MCAWW	TAL SAV

Protocol References:

EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater",
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number 110130

680-128342 Chain of Custody

UEST AND CHAIN OF CUSTODY RECORD

THE LEADER IN ENVIRONMENTAL TESTING

Lab Proj# 680-16763

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone.
Fax:

PROJECT REFERENCE: Zill LLC (GEI)	PROJECT NO.: 1600780	PROJECT LOCATION (STATE): Mo
TAL (LAB) PROJECT MANAGER: Kathy Smith	P.O. NUMBER:	CONTRACT NO.:
CLIENT (SITE) PM: Lisa Reyenga	CLIENT PHONE: 817-380-3901	CLIENT FAX:
CLIENT NAME: GEI Consultants	CLIENT E-MAIL: lreyenga@geiconsultants.com	
CLIENT ADDRESS: 1001 DTC Blvd #900, Denver CO 80237		
COMPANY CONTRACTING THIS WORK (if applicable):		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	8260	8270	PP Metals	EPA 6010	Nitrate	Sulfate	Sulfide	Chloride	Bicarbonate	Bromide	Ammonia	Phosphorus	TDS	Alkalinity	REMARKS
		TRIP BLANK						8260 (2 VOAs)														
8/4/16	0945	1600780-MW-26		X				13 Total														
	0927	1600780-MW-12		X				16 Total					HOLD FF SAMPLES FOR 8270, 6010, + PP METALS EXTRACT 8270									
	1146	1600780-MW-1		X				13 Total														
	1204	1600780-MW-18		X				13 Total														
	1204	1600780-MW-18 MS		X				13 Total														
	1204	1600780-MW-18 MSD		X				13 Total														
	1200	1600780-~~FB~~ EQUIP BLANK DUP1		X				13 Total														
	1445	1600780-FB-3		X				3 Total		8260 only												
	1544	1600780-MW-23		X				13 Total														
	1557	1600780-MW-25		X				13 Total														
	1250	1600780-MW-C		X				16 Total					HOLD FF SAMPLES FOR 8270, 6010, + PP Metals, EXTRACT 8270									
	0902	1600780-GSP-10		X				6 Total														

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	8/4/16	1830						
RECEIVED BY: (SIGNATURE) FED EX	DATE 8/4/16	TIME 1830	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	08/05/16	0859	YES ○ NO ○	680-128342		0.6/1.0/1.1/2.8/2.2/1.4 (CF) 0.7/1.1/1.2/2.9/2.3/1.5°C

TAL8240-880 (1008)

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 680-128342-1

Login Number: 128342
List Number: 1
Creator: Banda, Christy S

List Source: TestAmerica Savannah

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-128400-1
Client Project/Site: Zill LLC
Revision: 1

For:
GEI Consultants, Inc.
CentreGreen Two
4000 CentreGreen Way
Suite 180
Cary, North Carolina 27513

Attn: Brooke Bennett

Kathryn Smith

Authorized for release by:
9/30/2016 1:02:15 PM

Kathryn Smith, Project Manager II
(912)354-7858
kathy.smith@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
*	LCS or LCSD is outside acceptance limits.

HPLC/IC

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

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Sample Summary

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-128400-1	1600780-GSP-10	Water	08/05/16 07:00	08/06/16 09:44
680-128400-2	1600780-MW-21	Water	08/05/16 08:28	08/06/16 09:44
680-128400-3	1600780-MW-19	Water	08/05/16 08:44	08/06/16 09:44
680-128400-4	1600780-MW-7	Water	08/05/16 08:30	08/06/16 09:44
680-128400-5	1600780-MW-3	Water	08/05/16 09:57	08/06/16 09:44
680-128400-6	1600780-RW-2	Water	08/05/16 11:02	08/06/16 09:44
680-128400-7	1600780-RW-1	Water	08/05/16 11:30	08/06/16 09:44
680-128400-8	1600780-MW-22	Water	08/05/16 12:37	08/06/16 09:44
680-128400-9	1600780-FB-4	Water	08/05/16 13:30	08/06/16 09:44
680-128400-10	1600780-MW-24	Water	08/05/16 13:40	08/06/16 09:44
680-128400-11	1600780-MW-15	Water	08/05/16 13:40	08/06/16 09:44
680-128400-12	1600780-MW-13	Water	08/05/16 14:47	08/06/16 09:44
680-128400-13	1600780-MW-20	Water	08/05/16 15:20	08/06/16 09:44
680-128400-14	1600780-EB-1	Water	08/05/16 15:46	08/06/16 09:44
680-128400-15	1600780-EB-2	Water	08/05/16 16:30	08/06/16 09:44
680-128400-16	TRIP BLANK	Water	08/05/16 00:00	08/06/16 09:44
680-128400-17	1600780-MW-D	Water	08/05/16 13:33	08/06/16 09:44

Job ID: 680-128400-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE
Client: GEI Consultants, Inc.
Project: Zill LLC

Report Number: 680-128400-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT
The samples were received on 08/06/2016; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 7 coolers at receipt time were 2.7º C, 3.0º C, 3.0º C, 3.1º C, 3.1º C, 3.3º C and 3.6º C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)
Samples 1600780-GSP-10 (680-128400-1), 1600780-MW-21 (680-128400-2), 1600780-MW-19 (680-128400-3), 1600780-MW-7 (680-128400-4), 1600780-MW-3 (680-128400-5), 1600780-RW-2 (680-128400-6), 1600780-FB-4 (680-128400-9), 1600780-MW-24 (680-128400-10), 1600780-MW-15 (680-128400-11), 1600780-MW-13 (680-128400-12), 1600780-EB-1 (680-128400-14), 1600780-EB-2 (680-128400-15), TRIP BLANK (680-128400-16) and 1600780-MW-D (680-128400-17) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 08/15/2016, 08/16/2016 and 08/17/2016.

The following analyte recovered outside control limits for the LCS associated with analytical batch 680-445638: 2-Butanone. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 680-445638 recovered outside control limits for the following analytes: Bromomethane, Chloroethane, and Methylene Chloride.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batches 680-445889 and 680-445638.

Samples 1600780-GSP-10 (680-128400-1)[25X], 1600780-MW-21 (680-128400-2)[200X], 1600780-MW-19 (680-128400-3)[10X], 1600780-MW-7 (680-128400-4)[200X], 1600780-MW-3 (680-128400-5)[10X], 1600780-RW-2 (680-128400-6)[50X], 1600780-MW-24 (680-128400-10)[100X], 1600780-MW-15 (680-128400-11)[25X], 1600780-MW-15 (680-128400-11)[50X], 1600780-MW-13 (680-128400-12)[100X] and 1600780-MW-D (680-128400-17)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS) - LOW LEVEL
Samples 1600780-GSP-10 (680-128400-1), 1600780-MW-21 (680-128400-2), 1600780-MW-19 (680-128400-3), 1600780-MW-7 (680-128400-4), 1600780-MW-3 (680-128400-5), 1600780-RW-2 (680-128400-6), 1600780-RW-1 (680-128400-7), 1600780-MW-24 (680-128400-10), 1600780-MW-13 (680-128400-12), 1600780-EB-1 (680-128400-14), 1600780-EB-2 (680-128400-15) and 1600780-MW-D (680-128400-17) were analyzed for Semivolatile Organic Compounds (GC/MS) - Low level in accordance with EPA SW-846 Method 8270D. The samples were prepared on 08/09/2016 and analyzed on 08/10/2016 and 08/12/2016.

Benzo[g,h,i]perylene was detected in method blank MB 680-444887/13-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

The following samples were diluted due to the abundance of target analytes and the nature of the sample matrix: 1600780-MW-21 (680-128400-2), 1600780-MW-19 (680-128400-3), 1600780-MW-7 (680-128400-4), 1600780-MW-3 (680-128400-5), 1600780-RW-2

Job ID: 680-128400-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

(680-128400-6), 1600780-RW-1 (680-128400-7), 1600780-MW-24 (680-128400-10) and 1600780-MW-13 (680-128400-12). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Surrogate recovery for the following samples was outside control limits: 1600780-GSP-10 (680-128400-1), 1600780-MW-D (680-128400-17) and (680-128400-A-1-A MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

The continuing calibration verification (CCV) analyzed in batch 680-445442 was outside the method criteria for the following analyte(s): Bis(2-chloroethyl)ether, Benzaldehyde and 2,2'-oxybis[1-chloropropane]. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

3,3'-Dichlorobenzidine and Atrazine recovered low for LCS 680-444887/14-A.

Several analytes recovered low for the MS/MSD of sample 1600780-GSP-10 (680-128400-1) in batch 680-445442. Several analytes exceeded the RPD limit.

Samples 1600780-MW-21 (680-128400-2)[10X], 1600780-MW-21 (680-128400-2)[100X], 1600780-MW-19 (680-128400-3)[10X], 1600780-MW-7 (680-128400-4)[10X], 1600780-MW-7 (680-128400-4)[100X], 1600780-MW-3 (680-128400-5)[10X], 1600780-RW-2 (680-128400-6)[10X], 1600780-RW-1 (680-128400-7)[10X], 1600780-MW-24 (680-128400-10)[10X], 1600780-MW-24 (680-128400-10) [100X], 1600780-MW-13 (680-128400-12)[10X] and 1600780-MW-13 (680-128400-12)[100X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

METALS (ICP)

Samples 1600780-GSP-10 (680-128400-1), 1600780-MW-21 (680-128400-2), 1600780-MW-19 (680-128400-3), 1600780-MW-7 (680-128400-4), 1600780-MW-3 (680-128400-5), 1600780-RW-2 (680-128400-6), 1600780-RW-1 (680-128400-7), 1600780-MW-22 (680-128400-8), 1600780-MW-24 (680-128400-10), 1600780-MW-13 (680-128400-12), 1600780-MW-20 (680-128400-13) and 1600780-MW-D (680-128400-17) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 08/08/2016 and analyzed on 08/10/2016, 08/11/2016 and 08/18/2016.

Calcium was detected in method blank MB 680-444840/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Calcium recovered low for the MS/MSD of sample 1600780-GSP-10 (680-128400-1) in batch 680-446234. Sodium recovered high.

Samples 1600780-GSP-10 (680-128400-1)[10X], 1600780-MW-19 (680-128400-3)[10X], 1600780-MW-7 (680-128400-4)[10X], 1600780-MW-3 (680-128400-5)[10X], 1600780-RW-1 (680-128400-7)[10X], 1600780-MW-22 (680-128400-8)[10X] and 1600780-MW-13 (680-128400-12)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

TOTAL MERCURY

Samples 1600780-GSP-10 (680-128400-1), 1600780-MW-21 (680-128400-2), 1600780-MW-19 (680-128400-3), 1600780-MW-7 (680-128400-4), 1600780-MW-3 (680-128400-5), 1600780-RW-2 (680-128400-6), 1600780-RW-1 (680-128400-7), 1600780-MW-22 (680-128400-8), 1600780-MW-24 (680-128400-10), 1600780-MW-13 (680-128400-12), 1600780-MW-20 (680-128400-13) and 1600780-MW-D (680-128400-17) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 08/09/2016 and analyzed on 08/10/2016.

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

ALKALINITY

Samples 1600780-MW-21 (680-128400-2), 1600780-MW-19 (680-128400-3), 1600780-MW-7 (680-128400-4), 1600780-MW-3

Job ID: 680-128400-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

(680-128400-5), 1600780-RW-2 (680-128400-6), 1600780-RW-1 (680-128400-7), 1600780-MW-22 (680-128400-8), 1600780-MW-24 (680-128400-10), 1600780-MW-13 (680-128400-12), 1600780-MW-20 (680-128400-13) and 1600780-MW-D (680-128400-17) were analyzed for alkalinity in accordance with SM 2320B. The samples were analyzed on 08/15/2016 and 08/16/2016.

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

TOTAL DISSOLVED SOLIDS

Samples 1600780-MW-21 (680-128400-2), 1600780-MW-19 (680-128400-3), 1600780-MW-7 (680-128400-4), 1600780-MW-3 (680-128400-5), 1600780-RW-2 (680-128400-6), 1600780-RW-1 (680-128400-7), 1600780-MW-22 (680-128400-8), 1600780-MW-24 (680-128400-10), 1600780-MW-13 (680-128400-12), 1600780-MW-20 (680-128400-13) and 1600780-MW-D (680-128400-17) were analyzed for total dissolved solids in accordance with SM 2540C. The samples were analyzed on 08/09/2016.

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

ANIONS BY ION CHROMATOGRAPHY (28 DAY)

Samples 1600780-GSP-10 (680-128400-1), 1600780-MW-21 (680-128400-2), 1600780-MW-19 (680-128400-3), 1600780-MW-7 (680-128400-4), 1600780-MW-3 (680-128400-5), 1600780-RW-2 (680-128400-6), 1600780-RW-1 (680-128400-7), 1600780-MW-22 (680-128400-8), 1600780-MW-24 (680-128400-10), 1600780-MW-13 (680-128400-12), 1600780-MW-20 (680-128400-13) and 1600780-MW-D (680-128400-17) were analyzed for Anions by Ion Chromatography (28 Day) in accordance with EPA Method 300.0. The samples were analyzed on 08/16/2016, 08/17/2016 and 08/18/2016.

Samples 1600780-GSP-10 (680-128400-1)[5X], 1600780-MW-21 (680-128400-2)[5X], 1600780-MW-19 (680-128400-3)[5X], 1600780-MW-7 (680-128400-4)[25X], 1600780-MW-3 (680-128400-5)[5X], 1600780-RW-2 (680-128400-6)[5X], 1600780-RW-1 (680-128400-7)[4X], 1600780-MW-22 (680-128400-8)[10X], 1600780-MW-24 (680-128400-10)[5X], 1600780-MW-13 (680-128400-12)[25X] and 1600780-MW-20 (680-128400-13)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

ANIONS BY ION CHROMATOGRAPHY (48 HOUR)

Samples 1600780-GSP-10 (680-128400-1), 1600780-MW-21 (680-128400-2), 1600780-MW-19 (680-128400-3), 1600780-MW-7 (680-128400-4), 1600780-MW-3 (680-128400-5), 1600780-RW-2 (680-128400-6), 1600780-RW-1 (680-128400-7), 1600780-MW-22 (680-128400-8), 1600780-MW-24 (680-128400-10), 1600780-MW-13 (680-128400-12), 1600780-MW-20 (680-128400-13) and 1600780-MW-D (680-128400-17) were analyzed for Anions by Ion Chromatography (48 Hour) in accordance with EPA Method 300.0. The samples were analyzed on 08/06/2016.

Samples 1600780-MW-7 (680-128400-4)[2X] and 1600780-MW-13 (680-128400-12)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

AMMONIA

Samples 1600780-MW-21 (680-128400-2), 1600780-MW-19 (680-128400-3), 1600780-MW-7 (680-128400-4), 1600780-MW-3 (680-128400-5), 1600780-RW-2 (680-128400-6), 1600780-RW-1 (680-128400-7), 1600780-MW-22 (680-128400-8), 1600780-MW-24 (680-128400-10), 1600780-MW-13 (680-128400-12), 1600780-MW-20 (680-128400-13) and 1600780-MW-D (680-128400-17) were analyzed for ammonia in accordance with EPA Method 350.1. The samples were analyzed on 08/16/2016.

Ammonia recovered high for the MSD of sample 1600780-MW-3MSD (680-128400-5) in batch 680-445935.

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

TOTAL PHOSPHORUS

Samples 1600780-MW-21 (680-128400-2), 1600780-MW-19 (680-128400-3), 1600780-MW-7 (680-128400-4), 1600780-MW-3 (680-128400-5), 1600780-RW-2 (680-128400-6), 1600780-RW-1 (680-128400-7), 1600780-MW-22 (680-128400-8), 1600780-MW-24 (680-128400-10), 1600780-MW-13 (680-128400-12), 1600780-MW-20 (680-128400-13) and 1600780-MW-D (680-128400-17) were analyzed for total phosphorus in accordance with EPA Method 365.4. The samples were prepared on 08/16/2016 and 08/17/2016 and

Job ID: 680-128400-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

analyzed on 08/17/2016 and 08/18/2016.

Sample 1600780-MW-D (680-128400-17)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

SULFIDE

Samples 1600780-MW-21 (680-128400-2), 1600780-MW-19 (680-128400-3), 1600780-MW-7 (680-128400-4), 1600780-MW-3 (680-128400-5), 1600780-RW-2 (680-128400-6), 1600780-RW-1 (680-128400-7), 1600780-MW-22 (680-128400-8), 1600780-MW-24 (680-128400-10), 1600780-MW-13 (680-128400-12), 1600780-MW-20 (680-128400-13) and 1600780-MW-D (680-128400-17) were analyzed for sulfide in accordance with EPA Method 376.1. The samples were analyzed on 08/11/2016.

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

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Client Sample ID: 1600780-GSP-10

Lab Sample ID: 680-128400-1

Date Collected: 08/05/16 07:00
Matrix: Water
Date Received: 08/06/16 09:44

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	250	U	250	180	ug/L			08/15/16 14:39	25
Benzene	**1100**		25	11	ug/L			08/15/16 14:39	25
Bromobenzene	25	U	25	13	ug/L			08/15/16 14:39	25
Bromochloromethane	25	U	25	11	ug/L			08/15/16 14:39	25
Bromodichloromethane	25	U	25	11	ug/L			08/15/16 14:39	25
Bromoform	25	U	25	11	ug/L			08/15/16 14:39	25
Bromomethane	130	U	130	63	ug/L			08/15/16 14:39	25
2-Butanone (MEK)	250	U	250	85	ug/L			08/15/16 14:39	25
Carbon disulfide	50	U	50	25	ug/L			08/15/16 14:39	25
Carbon tetrachloride	25	U	25	8.3	ug/L			08/15/16 14:39	25
Chlorobenzene	25	U	25	6.5	ug/L			08/15/16 14:39	25
Chloroethane	130	U	130	63	ug/L			08/15/16 14:39	25
Chloroform	25	U	25	13	ug/L			08/15/16 14:39	25
Chloromethane	25	U	25	10	ug/L			08/15/16 14:39	25
2-Chlorotoluene	25	U	25	6.8	ug/L			08/15/16 14:39	25
4-Chlorotoluene	25	U	25	11	ug/L			08/15/16 14:39	25
cis-1,2-Dichloroethene	25	U	25	10	ug/L			08/15/16 14:39	25
cis-1,3-Dichloropropene	25	U	25	10	ug/L			08/15/16 14:39	25
Dibromochloromethane	25	U	25	8.0	ug/L			08/15/16 14:39	25
Dibromomethane	25	U	25	8.8	ug/L			08/15/16 14:39	25
Dichlorodifluoromethane	25	U	25	15	ug/L			08/15/16 14:39	25
1,1-Dichloroethane	25	U	25	9.5	ug/L			08/15/16 14:39	25
1,2-Dichloroethane	25	U	25	13	ug/L			08/15/16 14:39	25
1,1-Dichloroethene	25	U	25	9.0	ug/L			08/15/16 14:39	25
1,2-Dichloroethene, Total	50	U	50	9.3	ug/L			08/15/16 14:39	25
1,2-Dichloropropane	25	U	25	17	ug/L			08/15/16 14:39	25
1,3-Dichloropropane	25	U	25	8.5	ug/L			08/15/16 14:39	25
2,2-Dichloropropane	25	U	25	9.3	ug/L			08/15/16 14:39	25
1,1-Dichloropropene	25	U	25	8.5	ug/L			08/15/16 14:39	25
Ethylbenzene	**110**		25	8.3	ug/L			08/15/16 14:39	25
2-Hexanone	250	U	250	50	ug/L			08/15/16 14:39	25
Isopropylbenzene	25	U	25	8.8	ug/L			08/15/16 14:39	25
Methylene Chloride	130	U	130	63	ug/L			08/15/16 14:39	25
4-Methyl-2-pentanone	250	U	250	53	ug/L			08/15/16 14:39	25
Methyl tert-butyl ether	250	U	250	7.5	ug/L			08/15/16 14:39	25
m-Xylene & p-Xylene	**200**		25	8.8	ug/L			08/15/16 14:39	25
n-Butylbenzene	25	U	25	12	ug/L			08/15/16 14:39	25
N-Propylbenzene	25	U	25	9.5	ug/L			08/15/16 14:39	25
o-Xylene	**36**		25	5.8	ug/L			08/15/16 14:39	25
p-Isopropyltoluene	25	U	25	12	ug/L			08/15/16 14:39	25
sec-Butylbenzene	25	U	25	11	ug/L			08/15/16 14:39	25
Styrene	25	U	25	6.8	ug/L			08/15/16 14:39	25
tert-Butylbenzene	25	U	25	11	ug/L			08/15/16 14:39	25
1,1,1,2-Tetrachloroethane	25	U	25	9.3	ug/L			08/15/16 14:39	25
1,1,2,2-Tetrachloroethane	25	U	25	16	ug/L			08/15/16 14:39	25
Tetrachloroethene	25	U	25	19	ug/L			08/15/16 14:39	25
Toluene	**31**		25	12	ug/L			08/15/16 14:39	25
trans-1,2-Dichloroethene	25	U	25	9.3	ug/L			08/15/16 14:39	25
trans-1,3-Dichloropropene	25	U	25	11	ug/L			08/15/16 14:39	25

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Client Sample ID: 1600780-GSP-10

Lab Sample ID: 680-128400-1

Date Collected: 08/05/16 07:00

Matrix: Water

Date Received: 08/06/16 09:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	130	U	130	63	ug/L			08/15/16 14:39	25
1,1,1-Trichloroethane	25	U	25	9.3	ug/L			08/15/16 14:39	25
1,1,2-Trichloroethane	25	U	25	8.3	ug/L			08/15/16 14:39	25
Trichloroethene	25	U	25	12	ug/L			08/15/16 14:39	25
Trichlorofluoromethane	25	U	25	11	ug/L			08/15/16 14:39	25
1,2,4-Trimethylbenzene	**160**		25	12	ug/L			08/15/16 14:39	25
1,3,5-Trimethylbenzene	**86**		25	7.8	ug/L			08/15/16 14:39	25
Vinyl acetate	50	U	50	20	ug/L			08/15/16 14:39	25
Vinyl chloride	25	U	25	13	ug/L			08/15/16 14:39	25
Xylenes, Total	**240**		25	5.8	ug/L			08/15/16 14:39	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*08/15/16 14:39*	*25*
Dibromofluoromethane (Surr)	*98*		*80 - 122*		*08/15/16 14:39*	*25*
1,2-Dichloroethane-d4 (Surr)	*103*		*73 - 131*		*08/15/16 14:39*	*25*
Toluene-d8 (Surr)	*95*		*80 - 120*		*08/15/16 14:39*	*25*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.20	U F1 F2	0.20	0.10	ug/L		08/09/16 15:34	08/12/16 12:27	1
Acenaphthylene	0.20	U F1 F2	0.20	0.10	ug/L		08/09/16 15:34	08/12/16 12:27	1
Acetophenone	**0.53**	**J F2**	1.0	0.30	ug/L		08/09/16 15:34	08/12/16 12:27	1
Anthracene	0.20	U F2	0.20	0.10	ug/L		08/09/16 15:34	08/12/16 12:27	1
Atrazine	4.0	U	4.0	2.0	ug/L		08/09/16 15:34	08/12/16 12:27	1
Benzaldehyde	1.0	U	1.0	0.10	ug/L		08/09/16 15:34	08/12/16 12:27	1
Benzo[a]anthracene	0.20	U F1 F2	0.20	0.10	ug/L		08/09/16 15:34	08/12/16 12:27	1
Benzo[a]pyrene	0.20	U	0.20	0.10	ug/L		08/09/16 15:34	08/12/16 12:27	1
Benzo[b]fluoranthene	0.20	U	0.20	0.10	ug/L		08/09/16 15:34	08/12/16 12:27	1
Benzo[g,h,i]perylene	0.20	U	0.20	0.10	ug/L		08/09/16 15:34	08/12/16 12:27	1
Benzo[k]fluoranthene	0.20	U F2	0.20	0.10	ug/L		08/09/16 15:34	08/12/16 12:27	1
1,1'-Biphenyl	1.0	U F1 F2	1.0	0.10	ug/L		08/09/16 15:34	08/12/16 12:27	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.10	ug/L		08/09/16 15:34	08/12/16 12:27	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.10	ug/L		08/09/16 15:34	08/12/16 12:27	1
Bis(2-ethylhexyl) phthalate	5.0	U	5.0	2.0	ug/L		08/09/16 15:34	08/12/16 12:27	1
4-Bromophenyl phenyl ether	1.0	U F2	1.0	0.12	ug/L		08/09/16 15:34	08/12/16 12:27	1
Butyl benzyl phthalate	1.0	U F2	1.0	0.12	ug/L		08/09/16 15:34	08/12/16 12:27	1
Caprolactam	1.0	U F1	1.0	0.13	ug/L		08/09/16 15:34	08/12/16 12:27	1
Carbazole	2.0	U	2.0	0.10	ug/L		08/09/16 15:34	08/12/16 12:27	1
4-Chloroaniline	4.0	U F1	4.0	2.0	ug/L		08/09/16 15:34	08/12/16 12:27	1
4-Chloro-3-methylphenol	1.0	U F1	1.0	0.12	ug/L		08/09/16 15:34	08/12/16 12:27	1
2-Chloronaphthalene	1.0	U F1 F2	1.0	0.10	ug/L		08/09/16 15:34	08/12/16 12:27	1
2-Chlorophenol	1.0	U F2	1.0	0.12	ug/L		08/09/16 15:34	08/12/16 12:27	1
4-Chlorophenyl phenyl ether	1.0	U F1 F2	1.0	0.10	ug/L		08/09/16 15:34	08/12/16 12:27	1
Chrysene	0.20	U	0.20	0.045	ug/L		08/09/16 15:34	08/12/16 12:27	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.10	ug/L		08/09/16 15:34	08/12/16 12:27	1
Dibenzofuran	1.0	U F1 F2	1.0	0.10	ug/L		08/09/16 15:34	08/12/16 12:27	1
3,3'-Dichlorobenzidine	20	U F1	20	2.0	ug/L		08/09/16 15:34	08/12/16 12:27	1
2,4-Dichlorophenol	**0.70**	**J F1**	1.0	0.10	ug/L		08/09/16 15:34	08/12/16 12:27	1
Diethyl phthalate	1.0	U F1 F2	1.0	0.11	ug/L		08/09/16 15:34	08/12/16 12:27	1
2,4-Dimethylphenol	**8.4**		2.0	0.69	ug/L		08/09/16 15:34	08/12/16 12:27	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Client Sample ID: 1600780-GSP-10

Date Collected: 08/05/16 07:00
Date Received: 08/06/16 09:44

Lab Sample ID: 680-128400-1

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	1.0	U F1 F2	1.0	0.10	ug/L		08/09/16 15:34	08/12/16 12:27	1
Di-n-butyl phthalate	1.0	U	1.0	0.39	ug/L		08/09/16 15:34	08/12/16 12:27	1
4,6-Dinitro-2-methylphenol	5.0	U	5.0	1.0	ug/L		08/09/16 15:34	08/12/16 12:27	1
2,4-Dinitrophenol	10	U F2	10	1.1	ug/L		08/09/16 15:34	08/12/16 12:27	1
2,4-Dinitrotoluene	1.0	U F1 F2	1.0	0.12	ug/L		08/09/16 15:34	08/12/16 12:27	1
2,6-Dinitrotoluene	1.0	U F1 F2	1.0	0.13	ug/L		08/09/16 15:34	08/12/16 12:27	1
Di-n-octyl phthalate	1.0	U	1.0	0.17	ug/L		08/09/16 15:34	08/12/16 12:27	1
Fluoranthene	0.20	U F2	0.20	0.10	ug/L		08/09/16 15:34	08/12/16 12:27	1
Fluorene	0.20	U F1 F2	0.20	0.10	ug/L		08/09/16 15:34	08/12/16 12:27	1
Hexachlorobenzene	1.0	U F2	1.0	0.10	ug/L		08/09/16 15:34	08/12/16 12:27	1
Hexachlorobutadiene	1.0	U F1 F2	1.0	0.10	ug/L		08/09/16 15:34	08/12/16 12:27	1
Hexachlorocyclopentadiene	2.0	U F2	2.0	0.50	ug/L		08/09/16 15:34	08/12/16 12:27	1
Hexachloroethane	1.0	U F2	1.0	0.50	ug/L		08/09/16 15:34	08/12/16 12:27	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.10	ug/L		08/09/16 15:34	08/12/16 12:27	1
Isophorone	1.0	U F1 F2	1.0	0.10	ug/L		08/09/16 15:34	08/12/16 12:27	1
2-Methylnaphthalene	**0.23**		0.20	0.10	ug/L		08/09/16 15:34	08/12/16 12:27	1
2-Methylphenol	**2.1**		2.0	0.74	ug/L		08/09/16 15:34	08/12/16 12:27	1
3 & 4 Methylphenol	**1.9**	**J**	2.0	0.66	ug/L		08/09/16 15:34	08/12/16 12:27	1
Naphthalene	**0.74**		0.20	0.10	ug/L		08/09/16 15:34	08/12/16 12:27	1
2-Nitroaniline	1.0	U F1 F2	1.0	0.16	ug/L		08/09/16 15:34	08/12/16 12:27	1
3-Nitroaniline	5.0	U F1	5.0	0.16	ug/L		08/09/16 15:34	08/12/16 12:27	1
4-Nitroaniline	5.0	U F1 F2	5.0	0.50	ug/L		08/09/16 15:34	08/12/16 12:27	1
Nitrobenzene	1.0	U F2	1.0	0.10	ug/L		08/09/16 15:34	08/12/16 12:27	1
2-Nitrophenol	1.0	U F1 F2	1.0	0.10	ug/L		08/09/16 15:34	08/12/16 12:27	1
4-Nitrophenol	8.0	U F1	8.0	4.0	ug/L		08/09/16 15:34	08/12/16 12:27	1
N-Nitrosodi-n-propylamine	1.0	U F2	1.0	0.13	ug/L		08/09/16 15:34	08/12/16 12:27	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.37	ug/L		08/09/16 15:34	08/12/16 12:27	1
2,2'-oxybis[1-chloropropane]	1.0	U F2	1.0	0.10	ug/L		08/09/16 15:34	08/12/16 12:27	1
Pentachlorophenol	5.0	U F2	5.0	0.40	ug/L		08/09/16 15:34	08/12/16 12:27	1
Phenanthrene	0.20	U F2	0.20	0.10	ug/L		08/09/16 15:34	08/12/16 12:27	1
Phenol	**10**	**F1**	1.0	0.13	ug/L		08/09/16 15:34	08/12/16 12:27	1
Pyrene	0.20	U F2	0.20	0.10	ug/L		08/09/16 15:34	08/12/16 12:27	1
2,4,5-Trichlorophenol	1.0	U F1 F2	1.0	0.12	ug/L		08/09/16 15:34	08/12/16 12:27	1
2,4,6-Trichlorophenol	1.0	U F1 F2	1.0	0.17	ug/L		08/09/16 15:34	08/12/16 12:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*30*	*X*	*31 - 107*	*08/09/16 15:34*	*08/12/16 12:27*	*1*
2-Fluorophenol	*29*		*18 - 112*	*08/09/16 15:34*	*08/12/16 12:27*	*1*
Nitrobenzene-d5 (Surr)	*33*	*X*	*37 - 103*	*08/09/16 15:34*	*08/12/16 12:27*	*1*
Phenol-d5 (Surr)	*31*		*20 - 113*	*08/09/16 15:34*	*08/12/16 12:27*	*1*
Terphenyl-d14 (Surr)	*37*		*22 - 121*	*08/09/16 15:34*	*08/12/16 12:27*	*1*
2,4,6-Tribromophenol (Surr)	*33*	*X*	*39 - 133*	*08/09/16 15:34*	*08/12/16 12:27*	*1*

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.046**	**J**	0.050	0.023	mg/L			08/06/16 15:11	1
Sulfate	1.0	U	1.0	0.40	mg/L			08/16/16 21:51	1
Chloride	**120**		2.5	1.0	mg/L			08/17/16 21:47	5
Bromide	**0.55**		0.50	0.20	mg/L			08/16/16 21:51	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Client Sample ID: 1600780-GSP-10

Lab Sample ID: 680-128400-1
Date Collected: 08/05/16 07:00
Matrix: Water
Date Received: 08/06/16 09:44

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	20	U	20	5.3	ug/L		08/08/16 18:02	08/10/16 23:29	1
Arsenic	**7.0**	**J**	20	6.2	ug/L		08/08/16 18:02	08/10/16 23:29	1
Beryllium	4.0	U	4.0	0.10	ug/L		08/08/16 18:02	08/10/16 23:29	1
Cadmium	5.0	U	5.0	1.0	ug/L		08/08/16 18:02	08/10/16 23:29	1
Calcium	**96000**	**B**	500	25	ug/L		08/08/16 18:02	08/10/16 23:29	1
Chromium	10	U	10	1.6	ug/L		08/08/16 18:02	08/10/16 23:29	1
Copper	**2.7**	**J**	20	1.8	ug/L		08/08/16 18:02	08/10/16 23:29	1
Iron	**1800**		50	17	ug/L		08/08/16 18:02	08/10/16 23:29	1
Lead	10	U	10	3.9	ug/L		08/08/16 18:02	08/10/16 23:29	1
Magnesium	**38000**		500	33	ug/L		08/08/16 18:02	08/10/16 23:29	1
Manganese	**71**		10	1.0	ug/L		08/08/16 18:02	08/10/16 23:29	1
Nickel	**3.7**	**J**	40	2.1	ug/L		08/08/16 18:02	08/10/16 23:29	1
Potassium	**7700**		1000	17	ug/L		08/08/16 18:02	08/10/16 23:29	1
Selenium	20	U	20	9.9	ug/L		08/08/16 18:02	08/10/16 23:29	1
Silver	10	U	10	0.60	ug/L		08/08/16 18:02	08/10/16 23:29	1
Sodium	**150000**		10000	4800	ug/L		08/08/16 18:02	08/18/16 00:21	10
Thallium	25	U	25	6.0	ug/L		08/08/16 18:02	08/10/16 23:29	1
Zinc	**19**	**J**	20	7.0	ug/L		08/08/16 18:02	08/10/16 23:29	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.080	ug/L		08/09/16 13:30	08/10/16 17:27	1

Client Sample ID: 1600780-MW-21

Lab Sample ID: 680-128400-2
Date Collected: 08/05/16 08:28
Matrix: Water
Date Received: 08/06/16 09:44

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2000	U	2000	1400	ug/L			08/15/16 15:02	200
Benzene	**16000**		200	86	ug/L			08/15/16 15:02	200
Bromobenzene	200	U	200	100	ug/L			08/15/16 15:02	200
Bromochloromethane	200	U	200	90	ug/L			08/15/16 15:02	200
Bromodichloromethane	200	U	200	88	ug/L			08/15/16 15:02	200
Bromoform	200	U	200	86	ug/L			08/15/16 15:02	200
Bromomethane	1000	U	1000	500	ug/L			08/15/16 15:02	200
2-Butanone (MEK)	2000	U	2000	680	ug/L			08/15/16 15:02	200
Carbon disulfide	400	U	400	200	ug/L			08/15/16 15:02	200
Carbon tetrachloride	200	U	200	66	ug/L			08/15/16 15:02	200
Chlorobenzene	200	U	200	52	ug/L			08/15/16 15:02	200
Chloroethane	1000	U	1000	500	ug/L			08/15/16 15:02	200
Chloroform	200	U	200	100	ug/L			08/15/16 15:02	200
Chloromethane	200	U	200	80	ug/L			08/15/16 15:02	200
2-Chlorotoluene	200	U	200	54	ug/L			08/15/16 15:02	200
4-Chlorotoluene	200	U	200	90	ug/L			08/15/16 15:02	200
cis-1,2-Dichloroethene	200	U	200	82	ug/L			08/15/16 15:02	200
cis-1,3-Dichloropropene	200	U	200	80	ug/L			08/15/16 15:02	200
Dibromochloromethane	200	U	200	64	ug/L			08/15/16 15:02	200
Dibromomethane	200	U	200	70	ug/L			08/15/16 15:02	200
Dichlorodifluoromethane	200	U	200	120	ug/L			08/15/16 15:02	200

Client Sample ID: 1600780-MW-21

Lab Sample ID: 680-128400-2

Date Collected: 08/05/16 08:28

Matrix: Water

Date Received: 08/06/16 09:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	200	U	200	76	ug/L			08/15/16 15:02	200
1,2-Dichloroethane	200	U	200	100	ug/L			08/15/16 15:02	200
1,1-Dichloroethene	200	U	200	72	ug/L			08/15/16 15:02	200
1,2-Dichloroethene, Total	400	U	400	74	ug/L			08/15/16 15:02	200
1,2-Dichloropropane	200	U	200	130	ug/L			08/15/16 15:02	200
1,3-Dichloropropane	200	U	200	68	ug/L			08/15/16 15:02	200
2,2-Dichloropropane	200	U	200	74	ug/L			08/15/16 15:02	200
1,1-Dichloropropene	200	U	200	68	ug/L			08/15/16 15:02	200
Ethylbenzene	**3100**		200	66	ug/L			08/15/16 15:02	200
2-Hexanone	2000	U	2000	400	ug/L			08/15/16 15:02	200
Isopropylbenzene	200	U	200	70	ug/L			08/15/16 15:02	200
Methylene Chloride	1000	U	1000	500	ug/L			08/15/16 15:02	200
4-Methyl-2-pentanone	2000	U	2000	420	ug/L			08/15/16 15:02	200
Methyl tert-butyl ether	2000	U	2000	60	ug/L			08/15/16 15:02	200
m-Xylene & p-Xylene	**9000**		200	70	ug/L			08/15/16 15:02	200
n-Butylbenzene	200	U	200	94	ug/L			08/15/16 15:02	200
N-Propylbenzene	**200**		200	76	ug/L			08/15/16 15:02	200
o-Xylene	**3900**		200	46	ug/L			08/15/16 15:02	200
p-Isopropyltoluene	200	U	200	96	ug/L			08/15/16 15:02	200
sec-Butylbenzene	200	U	200	84	ug/L			08/15/16 15:02	200
Styrene	200	U	200	54	ug/L			08/15/16 15:02	200
tert-Butylbenzene	200	U	200	90	ug/L			08/15/16 15:02	200
1,1,1,2-Tetrachloroethane	200	U	200	74	ug/L			08/15/16 15:02	200
1,1,2,2-Tetrachloroethane	200	U	200	120	ug/L			08/15/16 15:02	200
Tetrachloroethene	200	U	200	150	ug/L			08/15/16 15:02	200
Toluene	**35000**		200	96	ug/L			08/15/16 15:02	200
trans-1,2-Dichloroethene	200	U	200	74	ug/L			08/15/16 15:02	200
trans-1,3-Dichloropropene	200	U	200	84	ug/L			08/15/16 15:02	200
1,2,3-Trichlorobenzene	1000	U	1000	500	ug/L			08/15/16 15:02	200
1,1,1-Trichloroethane	200	U	200	74	ug/L			08/15/16 15:02	200
1,1,2-Trichloroethane	200	U	200	66	ug/L			08/15/16 15:02	200
Trichloroethene	200	U	200	96	ug/L			08/15/16 15:02	200
Trichlorofluoromethane	200	U	200	84	ug/L			08/15/16 15:02	200
1,2,4-Trimethylbenzene	**1300**		200	94	ug/L			08/15/16 15:02	200
1,3,5-Trimethylbenzene	**350**		200	62	ug/L			08/15/16 15:02	200
Vinyl acetate	400	U	400	160	ug/L			08/15/16 15:02	200
Vinyl chloride	200	U	200	100	ug/L			08/15/16 15:02	200
Xylenes, Total	**13000**		200	46	ug/L			08/15/16 15:02	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*08/15/16 15:02*	*200*
Dibromofluoromethane (Surr)	*100*		*80 - 122*		*08/15/16 15:02*	*200*
1,2-Dichloroethane-d4 (Surr)	*101*		*73 - 131*		*08/15/16 15:02*	*200*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/15/16 15:02*	*200*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 18:45	10
Acenaphthylene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 18:45	10
Acetophenone	**36**		9.6	2.9	ug/L		08/09/16 15:34	08/10/16 18:45	10

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Client Sample ID: 1600780-MW-21
Date Collected: 08/05/16 08:28
Date Received: 08/06/16 09:44

Lab Sample ID: 680-128400-2
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 18:45	10
Atrazine	38	U	38	19	ug/L		08/09/16 15:34	08/10/16 18:45	10
Benzaldehyde	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 18:45	10
Benzo[a]anthracene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 18:45	10
Benzo[a]pyrene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 18:45	10
Benzo[b]fluoranthene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 18:45	10
Benzo[g,h,i]perylene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 18:45	10
Benzo[k]fluoranthene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 18:45	10
1,1'-Biphenyl	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 18:45	10
Bis(2-chloroethoxy)methane	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 18:45	10
Bis(2-chloroethyl)ether	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 18:45	10
Bis(2-ethylhexyl) phthalate	48	U	48	19	ug/L		08/09/16 15:34	08/10/16 18:45	10
4-Bromophenyl phenyl ether	9.6	U	9.6	1.1	ug/L		08/09/16 15:34	08/10/16 18:45	10
Butyl benzyl phthalate	9.6	U	9.6	1.1	ug/L		08/09/16 15:34	08/10/16 18:45	10
Caprolactam	9.6	U	9.6	1.2	ug/L		08/09/16 15:34	08/10/16 18:45	10
Carbazole	19	U	19	0.96	ug/L		08/09/16 15:34	08/10/16 18:45	10
4-Chloroaniline	38	U	38	19	ug/L		08/09/16 15:34	08/10/16 18:45	10
4-Chloro-3-methylphenol	9.6	U	9.6	1.1	ug/L		08/09/16 15:34	08/10/16 18:45	10
2-Chloronaphthalene	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 18:45	10
2-Chlorophenol	9.6	U	9.6	1.1	ug/L		08/09/16 15:34	08/10/16 18:45	10
4-Chlorophenyl phenyl ether	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 18:45	10
Chrysene	1.9	U	1.9	0.43	ug/L		08/09/16 15:34	08/10/16 18:45	10
Dibenz(a,h)anthracene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 18:45	10
Dibenzofuran	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 18:45	10
3,3'-Dichlorobenzidine	190	U	190	19	ug/L		08/09/16 15:34	08/10/16 18:45	10
2,4-Dichlorophenol	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 18:45	10
Diethyl phthalate	9.6	U	9.6	1.1	ug/L		08/09/16 15:34	08/10/16 18:45	10
2,4-Dimethylphenol	**160**		19	6.6	ug/L		08/09/16 15:34	08/10/16 18:45	10
Dimethyl phthalate	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 18:45	10
Di-n-butyl phthalate	9.6	U	9.6	3.7	ug/L		08/09/16 15:34	08/10/16 18:45	10
4,6-Dinitro-2-methylphenol	48	U	48	9.6	ug/L		08/09/16 15:34	08/10/16 18:45	10
2,4-Dinitrophenol	96	U	96	11	ug/L		08/09/16 15:34	08/10/16 18:45	10
2,4-Dinitrotoluene	9.6	U	9.6	1.1	ug/L		08/09/16 15:34	08/10/16 18:45	10
2,6-Dinitrotoluene	9.6	U	9.6	1.2	ug/L		08/09/16 15:34	08/10/16 18:45	10
Di-n-octyl phthalate	9.6	U	9.6	1.6	ug/L		08/09/16 15:34	08/10/16 18:45	10
Fluoranthene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 18:45	10
Fluorene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 18:45	10
Hexachlorobenzene	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 18:45	10
Hexachlorobutadiene	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 18:45	10
Hexachlorocyclopentadiene	19	U	19	4.8	ug/L		08/09/16 15:34	08/10/16 18:45	10
Hexachloroethane	9.6	U	9.6	4.8	ug/L		08/09/16 15:34	08/10/16 18:45	10
Indeno[1,2,3-cd]pyrene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 18:45	10
Isophorone	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 18:45	10
2-Methylnaphthalene	**41**		1.9	0.96	ug/L		08/09/16 15:34	08/10/16 18:45	10
Naphthalene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 18:45	10
2-Nitroaniline	9.6	U	9.6	1.5	ug/L		08/09/16 15:34	08/10/16 18:45	10
3-Nitroaniline	48	U	48	1.5	ug/L		08/09/16 15:34	08/10/16 18:45	10
4-Nitroaniline	48	U	48	4.8	ug/L		08/09/16 15:34	08/10/16 18:45	10
Nitrobenzene	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 18:45	10

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Client Sample ID: 1600780-MW-21

Date Collected: 08/05/16 08:28
Date Received: 08/06/16 09:44

Lab Sample ID: 680-128400-2

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 18:45	10
4-Nitrophenol	76	U	76	38	ug/L		08/09/16 15:34	08/10/16 18:45	10
N-Nitrosodi-n-propylamine	9.6	U	9.6	1.2	ug/L		08/09/16 15:34	08/10/16 18:45	10
N-Nitrosodiphenylamine	9.6	U	9.6	3.5	ug/L		08/09/16 15:34	08/10/16 18:45	10
2,2'-oxybis[1-chloropropane]	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 18:45	10
Pentachlorophenol	48	U	48	3.8	ug/L		08/09/16 15:34	08/10/16 18:45	10
Phenanthrene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 18:45	10
Phenol	**150**		9.6	1.2	ug/L		08/09/16 15:34	08/10/16 18:45	10
Pyrene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 18:45	10
2,4,5-Trichlorophenol	9.6	U	9.6	1.1	ug/L		08/09/16 15:34	08/10/16 18:45	10
2,4,6-Trichlorophenol	9.6	U	9.6	1.6	ug/L		08/09/16 15:34	08/10/16 18:45	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*0*	*D*	*31 - 107*	*08/09/16 15:34*	*08/10/16 18:45*	*10*
2-Fluorophenol	*0*	*D*	*18 - 112*	*08/09/16 15:34*	*08/10/16 18:45*	*10*
Nitrobenzene-d5 (Surr)	*0*	*D*	*37 - 103*	*08/09/16 15:34*	*08/10/16 18:45*	*10*
Phenol-d5 (Surr)	*0*	*D*	*20 - 113*	*08/09/16 15:34*	*08/10/16 18:45*	*10*
Terphenyl-d14 (Surr)	*0*	*D*	*22 - 121*	*08/09/16 15:34*	*08/10/16 18:45*	*10*
2,4,6-Tribromophenol (Surr)	*0*	*D*	*39 - 133*	*08/09/16 15:34*	*08/10/16 18:45*	*10*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	**280**		190	71	ug/L		08/09/16 15:34	08/12/16 12:52	100
3 & 4 Methylphenol	**720**		190	63	ug/L		08/09/16 15:34	08/12/16 12:52	100

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.050	U	0.050	0.023	mg/L			08/06/16 15:28	1
Sulfate	**36**		1.0	0.40	mg/L			08/16/16 22:08	1
Chloride	**99**		2.5	1.0	mg/L			08/17/16 22:04	5
Bromide	**0.29**	**J**	0.50	0.20	mg/L			08/16/16 22:08	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	20	U	20	5.3	ug/L		08/08/16 18:02	08/10/16 23:50	1
Arsenic	**30**		20	6.2	ug/L		08/08/16 18:02	08/10/16 23:50	1
Beryllium	4.0	U	4.0	0.10	ug/L		08/08/16 18:02	08/10/16 23:50	1
Cadmium	5.0	U	5.0	1.0	ug/L		08/08/16 18:02	08/10/16 23:50	1
Calcium	**250000**	**B**	500	25	ug/L		08/08/16 18:02	08/10/16 23:50	1
Chromium	10	U	10	1.6	ug/L		08/08/16 18:02	08/10/16 23:50	1
Copper	20	U	20	1.8	ug/L		08/08/16 18:02	08/10/16 23:50	1
Iron	**44000**		50	17	ug/L		08/08/16 18:02	08/10/16 23:50	1
Lead	10	U	10	3.9	ug/L		08/08/16 18:02	08/10/16 23:50	1
Magnesium	**41000**		500	33	ug/L		08/08/16 18:02	08/10/16 23:50	1
Manganese	**1400**		10	1.0	ug/L		08/08/16 18:02	08/10/16 23:50	1
Nickel	**5.2**	**J**	40	2.1	ug/L		08/08/16 18:02	08/10/16 23:50	1
Potassium	**1100**		1000	17	ug/L		08/08/16 18:02	08/10/16 23:50	1
Selenium	20	U	20	9.9	ug/L		08/08/16 18:02	08/10/16 23:50	1
Silver	10	U	10	0.60	ug/L		08/08/16 18:02	08/10/16 23:50	1
Sodium	**62000**		1000	480	ug/L		08/08/16 18:02	08/10/16 23:50	1

Client Sample ID: 1600780-MW-21

Lab Sample ID: 680-128400-2
Date Collected: 08/05/16 08:28
Matrix: Water
Date Received: 08/06/16 09:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	25	U	25	6.0	ug/L		08/08/16 18:02	08/10/16 23:50	1
Zinc	20	U	20	7.0	ug/L		08/08/16 18:02	08/10/16 23:50	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.080	ug/L		08/09/16 13:30	08/10/16 17:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**630**		5.0	5.0	mg/L			08/15/16 19:43	1
Bicarbonate Alkalinity as CaCO3	**630**		5.0	5.0	mg/L			08/15/16 19:43	1
Ammonia	0.25	U	0.25	0.10	mg/L			08/16/16 10:21	1
Phosphorus	**0.14**		0.10	0.041	mg/L		08/17/16 09:14	08/18/16 13:35	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**1100**		10	10	mg/L			08/09/16 11:54	1
Sulfide	**2.1**		1.0	1.0	mg/L			08/11/16 07:50	1

Client Sample ID: 1600780-MW-19

Lab Sample ID: 680-128400-3
Date Collected: 08/05/16 08:44
Matrix: Water
Date Received: 08/06/16 09:44

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	100	U	100	70	ug/L			08/15/16 15:24	10
Benzene	**440**		10	4.3	ug/L			08/15/16 15:24	10
Bromobenzene	10	U	10	5.0	ug/L			08/15/16 15:24	10
Bromochloromethane	10	U	10	4.5	ug/L			08/15/16 15:24	10
Bromodichloromethane	10	U	10	4.4	ug/L			08/15/16 15:24	10
Bromoform	10	U	10	4.3	ug/L			08/15/16 15:24	10
Bromomethane	50	U	50	25	ug/L			08/15/16 15:24	10
2-Butanone (MEK)	100	U	100	34	ug/L			08/15/16 15:24	10
Carbon disulfide	20	U	20	10	ug/L			08/15/16 15:24	10
Carbon tetrachloride	10	U	10	3.3	ug/L			08/15/16 15:24	10
Chlorobenzene	10	U	10	2.6	ug/L			08/15/16 15:24	10
Chloroethane	50	U	50	25	ug/L			08/15/16 15:24	10
Chloroform	10	U	10	5.0	ug/L			08/15/16 15:24	10
Chloromethane	10	U	10	4.0	ug/L			08/15/16 15:24	10
2-Chlorotoluene	10	U	10	2.7	ug/L			08/15/16 15:24	10
4-Chlorotoluene	10	U	10	4.5	ug/L			08/15/16 15:24	10
cis-1,2-Dichloroethene	10	U	10	4.1	ug/L			08/15/16 15:24	10
cis-1,3-Dichloropropene	10	U	10	4.0	ug/L			08/15/16 15:24	10
Dibromochloromethane	10	U	10	3.2	ug/L			08/15/16 15:24	10
Dibromomethane	10	U	10	3.5	ug/L			08/15/16 15:24	10
Dichlorodifluoromethane	10	U	10	6.0	ug/L			08/15/16 15:24	10
1,1-Dichloroethane	10	U	10	3.8	ug/L			08/15/16 15:24	10
1,2-Dichloroethane	10	U	10	5.0	ug/L			08/15/16 15:24	10
1,1-Dichloroethene	10	U	10	3.6	ug/L			08/15/16 15:24	10
1,2-Dichloroethene, Total	20	U	20	3.7	ug/L			08/15/16 15:24	10
1,2-Dichloropropane	10	U	10	6.7	ug/L			08/15/16 15:24	10
1,3-Dichloropropane	10	U	10	3.4	ug/L			08/15/16 15:24	10

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Client Sample ID: 1600780-MW-19

Lab Sample ID: 680-128400-3

Date Collected: 08/05/16 08:44
Matrix: Water
Date Received: 08/06/16 09:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	10	U	10	3.7	ug/L			08/15/16 15:24	10
1,1-Dichloropropene	10	U	10	3.4	ug/L			08/15/16 15:24	10
Ethylbenzene	**21**		10	3.3	ug/L			08/15/16 15:24	10
2-Hexanone	100	U	100	20	ug/L			08/15/16 15:24	10
Isopropylbenzene	**16**		10	3.5	ug/L			08/15/16 15:24	10
Methylene Chloride	50	U	50	25	ug/L			08/15/16 15:24	10
4-Methyl-2-pentanone	100	U	100	21	ug/L			08/15/16 15:24	10
Methyl tert-butyl ether	100	U	100	3.0	ug/L			08/15/16 15:24	10
m-Xylene & p-Xylene	**34**		10	3.5	ug/L			08/15/16 15:24	10
n-Butylbenzene	10	U	10	4.7	ug/L			08/15/16 15:24	10
N-Propylbenzene	**19**		10	3.8	ug/L			08/15/16 15:24	10
o-Xylene	**4.9**	**J**	10	2.3	ug/L			08/15/16 15:24	10
p-Isopropyltoluene	10	U	10	4.8	ug/L			08/15/16 15:24	10
sec-Butylbenzene	10	U	10	4.2	ug/L			08/15/16 15:24	10
Styrene	10	U	10	2.7	ug/L			08/15/16 15:24	10
tert-Butylbenzene	10	U	10	4.5	ug/L			08/15/16 15:24	10
1,1,1,2-Tetrachloroethane	10	U	10	3.7	ug/L			08/15/16 15:24	10
1,1,2,2-Tetrachloroethane	10	U	10	6.2	ug/L			08/15/16 15:24	10
Tetrachloroethene	10	U	10	7.4	ug/L			08/15/16 15:24	10
Toluene	10	U	10	4.8	ug/L			08/15/16 15:24	10
trans-1,2-Dichloroethene	10	U	10	3.7	ug/L			08/15/16 15:24	10
trans-1,3-Dichloropropene	10	U	10	4.2	ug/L			08/15/16 15:24	10
1,2,3-Trichlorobenzene	50	U	50	25	ug/L			08/15/16 15:24	10
1,1,1-Trichloroethane	10	U	10	3.7	ug/L			08/15/16 15:24	10
1,1,2-Trichloroethane	10	U	10	3.3	ug/L			08/15/16 15:24	10
Trichloroethene	10	U	10	4.8	ug/L			08/15/16 15:24	10
Trichlorofluoromethane	10	U	10	4.2	ug/L			08/15/16 15:24	10
1,2,4-Trimethylbenzene	**9.4**	**J**	10	4.7	ug/L			08/15/16 15:24	10
1,3,5-Trimethylbenzene	10	U	10	3.1	ug/L			08/15/16 15:24	10
Vinyl acetate	20	U	20	8.1	ug/L			08/15/16 15:24	10
Vinyl chloride	10	U	10	5.0	ug/L			08/15/16 15:24	10
Xylenes, Total	**39**		10	2.3	ug/L			08/15/16 15:24	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*08/15/16 15:24*	*10*
Dibromofluoromethane (Surr)	*100*		*80 - 122*		*08/15/16 15:24*	*10*
1,2-Dichloroethane-d4 (Surr)	*108*		*73 - 131*		*08/15/16 15:24*	*10*
Toluene-d8 (Surr)	*94*		*80 - 120*		*08/15/16 15:24*	*10*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.096	ug/L		08/09/16 15:34	08/12/16 13:17	1
Acenaphthylene	0.19	U	0.19	0.096	ug/L		08/09/16 15:34	08/12/16 13:17	1
Acetophenone	0.96	U	0.96	0.29	ug/L		08/09/16 15:34	08/12/16 13:17	1
Anthracene	0.19	U	0.19	0.096	ug/L		08/09/16 15:34	08/12/16 13:17	1
Atrazine	3.8	U	3.8	1.9	ug/L		08/09/16 15:34	08/12/16 13:17	1
Benzaldehyde	0.96	U	0.96	0.096	ug/L		08/09/16 15:34	08/12/16 13:17	1
Benzo[a]anthracene	0.19	U	0.19	0.096	ug/L		08/09/16 15:34	08/12/16 13:17	1
Benzo[a]pyrene	0.19	U	0.19	0.096	ug/L		08/09/16 15:34	08/12/16 13:17	1
Benzo[b]fluoranthene	0.19	U	0.19	0.096	ug/L		08/09/16 15:34	08/12/16 13:17	1

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Client Sample ID: 1600780-MW-19
Date Collected: 08/05/16 08:44
Date Received: 08/06/16 09:44

Lab Sample ID: 680-128400-3
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	0.19	U	0.19	0.096	ug/L		08/09/16 15:34	08/12/16 13:17	1
Benzo[k]fluoranthene	0.19	U	0.19	0.096	ug/L		08/09/16 15:34	08/12/16 13:17	1
1,1'-Biphenyl	0.96	U	0.96	0.096	ug/L		08/09/16 15:34	08/12/16 13:17	1
Bis(2-chloroethoxy)methane	0.96	U	0.96	0.096	ug/L		08/09/16 15:34	08/12/16 13:17	1
Bis(2-chloroethyl)ether	0.96	U	0.96	0.096	ug/L		08/09/16 15:34	08/12/16 13:17	1
Bis(2-ethylhexyl) phthalate	4.8	U	4.8	1.9	ug/L		08/09/16 15:34	08/12/16 13:17	1
4-Bromophenyl phenyl ether	0.96	U	0.96	0.12	ug/L		08/09/16 15:34	08/12/16 13:17	1
Butyl benzyl phthalate	0.96	U	0.96	0.12	ug/L		08/09/16 15:34	08/12/16 13:17	1
Caprolactam	0.96	U	0.96	0.12	ug/L		08/09/16 15:34	08/12/16 13:17	1
Carbazole	1.9	U	1.9	0.096	ug/L		08/09/16 15:34	08/12/16 13:17	1
4-Chloroaniline	3.8	U	3.8	1.9	ug/L		08/09/16 15:34	08/12/16 13:17	1
4-Chloro-3-methylphenol	0.96	U	0.96	0.12	ug/L		08/09/16 15:34	08/12/16 13:17	1
2-Chloronaphthalene	0.96	U	0.96	0.096	ug/L		08/09/16 15:34	08/12/16 13:17	1
2-Chlorophenol	0.96	U	0.96	0.12	ug/L		08/09/16 15:34	08/12/16 13:17	1
4-Chlorophenyl phenyl ether	0.96	U	0.96	0.096	ug/L		08/09/16 15:34	08/12/16 13:17	1
Chrysene	0.19	U	0.19	0.043	ug/L		08/09/16 15:34	08/12/16 13:17	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.096	ug/L		08/09/16 15:34	08/12/16 13:17	1
Dibenzofuran	0.96	U	0.96	0.096	ug/L		08/09/16 15:34	08/12/16 13:17	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		08/09/16 15:34	08/12/16 13:17	1
2,4-Dichlorophenol	0.96	U	0.96	0.096	ug/L		08/09/16 15:34	08/12/16 13:17	1
Diethyl phthalate	0.96	U	0.96	0.11	ug/L		08/09/16 15:34	08/12/16 13:17	1
2,4-Dimethylphenol	**2.3**		1.9	0.66	ug/L		08/09/16 15:34	08/12/16 13:17	1
Dimethyl phthalate	0.96	U	0.96	0.096	ug/L		08/09/16 15:34	08/12/16 13:17	1
Di-n-butyl phthalate	0.96	U	0.96	0.37	ug/L		08/09/16 15:34	08/12/16 13:17	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.96	ug/L		08/09/16 15:34	08/12/16 13:17	1
2,4-Dinitrophenol	9.6	U	9.6	1.1	ug/L		08/09/16 15:34	08/12/16 13:17	1
2,4-Dinitrotoluene	0.96	U	0.96	0.12	ug/L		08/09/16 15:34	08/12/16 13:17	1
2,6-Dinitrotoluene	0.96	U	0.96	0.12	ug/L		08/09/16 15:34	08/12/16 13:17	1
Di-n-octyl phthalate	0.96	U	0.96	0.16	ug/L		08/09/16 15:34	08/12/16 13:17	1
Fluoranthene	0.19	U	0.19	0.096	ug/L		08/09/16 15:34	08/12/16 13:17	1
Fluorene	0.19	U	0.19	0.096	ug/L		08/09/16 15:34	08/12/16 13:17	1
Hexachlorobenzene	0.96	U	0.96	0.096	ug/L		08/09/16 15:34	08/12/16 13:17	1
Hexachlorobutadiene	0.96	U	0.96	0.096	ug/L		08/09/16 15:34	08/12/16 13:17	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		08/09/16 15:34	08/12/16 13:17	1
Hexachloroethane	0.96	U	0.96	0.48	ug/L		08/09/16 15:34	08/12/16 13:17	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.096	ug/L		08/09/16 15:34	08/12/16 13:17	1
Isophorone	0.96	U	0.96	0.096	ug/L		08/09/16 15:34	08/12/16 13:17	1
2-Methylnaphthalene	0.19	U	0.19	0.096	ug/L		08/09/16 15:34	08/12/16 13:17	1
2-Methylphenol	1.9	U	1.9	0.71	ug/L		08/09/16 15:34	08/12/16 13:17	1
3 & 4 Methylphenol	1.9	U	1.9	0.63	ug/L		08/09/16 15:34	08/12/16 13:17	1
Naphthalene	**7.1**		0.19	0.096	ug/L		08/09/16 15:34	08/12/16 13:17	1
2-Nitroaniline	0.96	U	0.96	0.15	ug/L		08/09/16 15:34	08/12/16 13:17	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		08/09/16 15:34	08/12/16 13:17	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		08/09/16 15:34	08/12/16 13:17	1
Nitrobenzene	0.96	U	0.96	0.096	ug/L		08/09/16 15:34	08/12/16 13:17	1
2-Nitrophenol	0.96	U	0.96	0.096	ug/L		08/09/16 15:34	08/12/16 13:17	1
4-Nitrophenol	7.7	U	7.7	3.8	ug/L		08/09/16 15:34	08/12/16 13:17	1
N-Nitrosodi-n-propylamine	0.96	U	0.96	0.12	ug/L		08/09/16 15:34	08/12/16 13:17	1
N-Nitrosodiphenylamine	0.96	U	0.96	0.36	ug/L		08/09/16 15:34	08/12/16 13:17	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Client Sample ID: 1600780-MW-19

Date Collected: 08/05/16 08:44
Date Received: 08/06/16 09:44

Lab Sample ID: 680-128400-3

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2'-oxybis[1-chloropropane]	0.96	U	0.96	0.096	ug/L		08/09/16 15:34	08/12/16 13:17	1
Pentachlorophenol	4.8	U	4.8	0.38	ug/L		08/09/16 15:34	08/12/16 13:17	1
Phenanthrene	0.19	U	0.19	0.096	ug/L		08/09/16 15:34	08/12/16 13:17	1
Pyrene	0.19	U	0.19	0.096	ug/L		08/09/16 15:34	08/12/16 13:17	1
2,4,5-Trichlorophenol	0.96	U	0.96	0.12	ug/L		08/09/16 15:34	08/12/16 13:17	1
2,4,6-Trichlorophenol	0.96	U	0.96	0.16	ug/L		08/09/16 15:34	08/12/16 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*59*		*31 - 107*	*08/09/16 15:34*	*08/12/16 13:17*	*1*
2-Fluorophenol	*63*		*18 - 112*	*08/09/16 15:34*	*08/12/16 13:17*	*1*
Nitrobenzene-d5 (Surr)	*67*		*37 - 103*	*08/09/16 15:34*	*08/12/16 13:17*	*1*
Phenol-d5 (Surr)	*62*		*20 - 113*	*08/09/16 15:34*	*08/12/16 13:17*	*1*
Terphenyl-d14 (Surr)	*66*		*22 - 121*	*08/09/16 15:34*	*08/12/16 13:17*	*1*
2,4,6-Tribromophenol (Surr)	*63*		*39 - 133*	*08/09/16 15:34*	*08/12/16 13:17*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	**33**		9.6	1.2	ug/L		08/09/16 15:34	08/10/16 19:11	10

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.050	U	0.050	0.023	mg/L			08/06/16 15:44	1
Sulfate	**14**		1.0	0.40	mg/L			08/16/16 22:25	1
Chloride	**86**		2.5	1.0	mg/L			08/18/16 01:03	5
Bromide	**0.35**	**J**	0.50	0.20	mg/L			08/16/16 22:25	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	20	U	20	5.3	ug/L		08/08/16 18:02	08/10/16 23:54	1
Arsenic	**12**	**J**	20	6.2	ug/L		08/08/16 18:02	08/10/16 23:54	1
Beryllium	4.0	U	4.0	0.10	ug/L		08/08/16 18:02	08/10/16 23:54	1
Cadmium	5.0	U	5.0	1.0	ug/L		08/08/16 18:02	08/10/16 23:54	1
Calcium	**170000**	**B**	500	25	ug/L		08/08/16 18:02	08/10/16 23:54	1
Chromium	**3.7**	**J**	10	1.6	ug/L		08/08/16 18:02	08/10/16 23:54	1
Copper	20	U	20	1.8	ug/L		08/08/16 18:02	08/10/16 23:54	1
Iron	**2200**		50	17	ug/L		08/08/16 18:02	08/10/16 23:54	1
Lead	10	U	10	3.9	ug/L		08/08/16 18:02	08/10/16 23:54	1
Magnesium	**17000**		500	33	ug/L		08/08/16 18:02	08/10/16 23:54	1
Manganese	**3400**		10	1.0	ug/L		08/08/16 18:02	08/10/16 23:54	1
Nickel	**6.0**	**J**	40	2.1	ug/L		08/08/16 18:02	08/10/16 23:54	1
Potassium	**830**	**J**	1000	17	ug/L		08/08/16 18:02	08/10/16 23:54	1
Selenium	20	U	20	9.9	ug/L		08/08/16 18:02	08/10/16 23:54	1
Silver	10	U	10	0.60	ug/L		08/08/16 18:02	08/10/16 23:54	1
Sodium	**110000**		10000	4800	ug/L		08/08/16 18:02	08/18/16 00:43	10
Thallium	25	U	25	6.0	ug/L		08/08/16 18:02	08/10/16 23:54	1
Zinc	20	U	20	7.0	ug/L		08/08/16 18:02	08/10/16 23:54	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.080	ug/L		08/09/16 13:30	08/10/16 17:36	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Client Sample ID: 1600780-MW-19

Lab Sample ID: 680-128400-3
Date Collected: 08/05/16 08:44
Matrix: Water
Date Received: 08/06/16 09:44

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**600**		5.0	5.0	mg/L			08/15/16 18:11	1
Bicarbonate Alkalinity as CaCO3	**600**		5.0	5.0	mg/L			08/15/16 18:11	1
Ammonia	**0.96**		0.25	0.10	mg/L			08/16/16 10:40	1
Phosphorus	**0.047**	**J**	0.10	0.041	mg/L		08/17/16 09:14	08/18/16 13:49	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**840**		10	10	mg/L			08/09/16 11:54	1
Sulfide	1.0	U	1.0	1.0	mg/L			08/11/16 07:50	1

Client Sample ID: 1600780-MW-7

Lab Sample ID: 680-128400-4
Date Collected: 08/05/16 08:30
Matrix: Water
Date Received: 08/06/16 09:44

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2000	U	2000	1400	ug/L			08/15/16 15:47	200
Benzene	**8200**		200	86	ug/L			08/15/16 15:47	200
Bromobenzene	200	U	200	100	ug/L			08/15/16 15:47	200
Bromochloromethane	200	U	200	90	ug/L			08/15/16 15:47	200
Bromodichloromethane	200	U	200	88	ug/L			08/15/16 15:47	200
Bromoform	200	U	200	86	ug/L			08/15/16 15:47	200
Bromomethane	1000	U	1000	500	ug/L			08/15/16 15:47	200
2-Butanone (MEK)	2000	U	2000	680	ug/L			08/15/16 15:47	200
Carbon disulfide	400	U	400	200	ug/L			08/15/16 15:47	200
Carbon tetrachloride	200	U	200	66	ug/L			08/15/16 15:47	200
Chlorobenzene	200	U	200	52	ug/L			08/15/16 15:47	200
Chloroethane	1000	U	1000	500	ug/L			08/15/16 15:47	200
Chloroform	200	U	200	100	ug/L			08/15/16 15:47	200
Chloromethane	200	U	200	80	ug/L			08/15/16 15:47	200
2-Chlorotoluene	200	U	200	54	ug/L			08/15/16 15:47	200
4-Chlorotoluene	200	U	200	90	ug/L			08/15/16 15:47	200
cis-1,2-Dichloroethene	200	U	200	82	ug/L			08/15/16 15:47	200
cis-1,3-Dichloropropene	200	U	200	80	ug/L			08/15/16 15:47	200
Dibromochloromethane	200	U	200	64	ug/L			08/15/16 15:47	200
Dibromomethane	200	U	200	70	ug/L			08/15/16 15:47	200
Dichlorodifluoromethane	200	U	200	120	ug/L			08/15/16 15:47	200
1,1-Dichloroethane	200	U	200	76	ug/L			08/15/16 15:47	200
1,2-Dichloroethane	200	U	200	100	ug/L			08/15/16 15:47	200
1,1-Dichloroethene	200	U	200	72	ug/L			08/15/16 15:47	200
1,2-Dichloroethene, Total	400	U	400	74	ug/L			08/15/16 15:47	200
1,2-Dichloropropane	200	U	200	130	ug/L			08/15/16 15:47	200
1,3-Dichloropropane	200	U	200	68	ug/L			08/15/16 15:47	200
2,2-Dichloropropane	200	U	200	74	ug/L			08/15/16 15:47	200
1,1-Dichloropropene	200	U	200	68	ug/L			08/15/16 15:47	200
Ethylbenzene	**2500**		200	66	ug/L			08/15/16 15:47	200
2-Hexanone	2000	U	2000	400	ug/L			08/15/16 15:47	200
Isopropylbenzene	**78**	**J**	200	70	ug/L			08/15/16 15:47	200
Methylene Chloride	1000	U	1000	500	ug/L			08/15/16 15:47	200
4-Methyl-2-pentanone	2000	U	2000	420	ug/L			08/15/16 15:47	200
Methyl tert-butyl ether	2000	U	2000	60	ug/L			08/15/16 15:47	200

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Client Sample ID: 1600780-MW-7

Date Collected: 08/05/16 08:30
Date Received: 08/06/16 09:44

Lab Sample ID: 680-128400-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	**8000**		200	70	ug/L			08/15/16 15:47	200
n-Butylbenzene	200	U	200	94	ug/L			08/15/16 15:47	200
N-Propylbenzene	**220**		200	76	ug/L			08/15/16 15:47	200
o-Xylene	**3300**		200	46	ug/L			08/15/16 15:47	200
p-Isopropyltoluene	200	U	200	96	ug/L			08/15/16 15:47	200
sec-Butylbenzene	200	U	200	84	ug/L			08/15/16 15:47	200
Styrene	200	U	200	54	ug/L			08/15/16 15:47	200
tert-Butylbenzene	200	U	200	90	ug/L			08/15/16 15:47	200
1,1,1,2-Tetrachloroethane	200	U	200	74	ug/L			08/15/16 15:47	200
1,1,2,2-Tetrachloroethane	200	U	200	120	ug/L			08/15/16 15:47	200
Tetrachloroethene	200	U	200	150	ug/L			08/15/16 15:47	200
Toluene	**23000**		200	96	ug/L			08/15/16 15:47	200
trans-1,2-Dichloroethene	200	U	200	74	ug/L			08/15/16 15:47	200
trans-1,3-Dichloropropene	200	U	200	84	ug/L			08/15/16 15:47	200
1,2,3-Trichlorobenzene	1000	U	1000	500	ug/L			08/15/16 15:47	200
1,1,1-Trichloroethane	200	U	200	74	ug/L			08/15/16 15:47	200
1,1,2-Trichloroethane	200	U	200	66	ug/L			08/15/16 15:47	200
Trichloroethene	200	U	200	96	ug/L			08/15/16 15:47	200
Trichlorofluoromethane	200	U	200	84	ug/L			08/15/16 15:47	200
1,2,4-Trimethylbenzene	**1700**		200	94	ug/L			08/15/16 15:47	200
1,3,5-Trimethylbenzene	**460**		200	62	ug/L			08/15/16 15:47	200
Vinyl acetate	400	U	400	160	ug/L			08/15/16 15:47	200
Vinyl chloride	200	U	200	100	ug/L			08/15/16 15:47	200
Xylenes, Total	**11000**		200	46	ug/L			08/15/16 15:47	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*08/15/16 15:47*	*200*
Dibromofluoromethane (Surr)	*95*		*80 - 122*		*08/15/16 15:47*	*200*
1,2-Dichloroethane-d4 (Surr)	*99*		*73 - 131*		*08/15/16 15:47*	*200*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/15/16 15:47*	*200*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	2.0	U	2.0	0.98	ug/L		08/09/16 15:34	08/10/16 19:38	10
Acenaphthylene	2.0	U	2.0	0.98	ug/L		08/09/16 15:34	08/10/16 19:38	10
Acetophenone	9.8	U	9.8	2.9	ug/L		08/09/16 15:34	08/10/16 19:38	10
Anthracene	2.0	U	2.0	0.98	ug/L		08/09/16 15:34	08/10/16 19:38	10
Atrazine	39	U	39	20	ug/L		08/09/16 15:34	08/10/16 19:38	10
Benzaldehyde	9.8	U	9.8	0.98	ug/L		08/09/16 15:34	08/10/16 19:38	10
Benzo[a]anthracene	2.0	U	2.0	0.98	ug/L		08/09/16 15:34	08/10/16 19:38	10
Benzo[a]pyrene	2.0	U	2.0	0.98	ug/L		08/09/16 15:34	08/10/16 19:38	10
Benzo[b]fluoranthene	2.0	U	2.0	0.98	ug/L		08/09/16 15:34	08/10/16 19:38	10
Benzo[g,h,i]perylene	2.0	U	2.0	0.98	ug/L		08/09/16 15:34	08/10/16 19:38	10
Benzo[k]fluoranthene	2.0	U	2.0	0.98	ug/L		08/09/16 15:34	08/10/16 19:38	10
1,1'-Biphenyl	9.8	U	9.8	0.98	ug/L		08/09/16 15:34	08/10/16 19:38	10
Bis(2-chloroethoxy)methane	9.8	U	9.8	0.98	ug/L		08/09/16 15:34	08/10/16 19:38	10
Bis(2-chloroethyl)ether	9.8	U	9.8	0.98	ug/L		08/09/16 15:34	08/10/16 19:38	10
Bis(2-ethylhexyl) phthalate	49	U	49	20	ug/L		08/09/16 15:34	08/10/16 19:38	10
4-Bromophenyl phenyl ether	9.8	U	9.8	1.2	ug/L		08/09/16 15:34	08/10/16 19:38	10
Butyl benzyl phthalate	9.8	U	9.8	1.2	ug/L		08/09/16 15:34	08/10/16 19:38	10

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Client Sample ID: 1600780-MW-7

Date Collected: 08/05/16 08:30
Date Received: 08/06/16 09:44

Lab Sample ID: 680-128400-4

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	9.8	U	9.8	1.3	ug/L		08/09/16 15:34	08/10/16 19:38	10
Carbazole	**5.0**	**J**	20	0.98	ug/L		08/09/16 15:34	08/10/16 19:38	10
4-Chloroaniline	39	U	39	20	ug/L		08/09/16 15:34	08/10/16 19:38	10
4-Chloro-3-methylphenol	9.8	U	9.8	1.2	ug/L		08/09/16 15:34	08/10/16 19:38	10
2-Chloronaphthalene	9.8	U	9.8	0.98	ug/L		08/09/16 15:34	08/10/16 19:38	10
2-Chlorophenol	9.8	U	9.8	1.2	ug/L		08/09/16 15:34	08/10/16 19:38	10
4-Chlorophenyl phenyl ether	9.8	U	9.8	0.98	ug/L		08/09/16 15:34	08/10/16 19:38	10
Chrysene	2.0	U	2.0	0.44	ug/L		08/09/16 15:34	08/10/16 19:38	10
Dibenz(a,h)anthracene	2.0	U	2.0	0.98	ug/L		08/09/16 15:34	08/10/16 19:38	10
Dibenzofuran	9.8	U	9.8	0.98	ug/L		08/09/16 15:34	08/10/16 19:38	10
3,3'-Dichlorobenzidine	200	U	200	20	ug/L		08/09/16 15:34	08/10/16 19:38	10
2,4-Dichlorophenol	9.8	U	9.8	0.98	ug/L		08/09/16 15:34	08/10/16 19:38	10
Diethyl phthalate	9.8	U	9.8	1.1	ug/L		08/09/16 15:34	08/10/16 19:38	10
2,4-Dimethylphenol	**150**		20	6.8	ug/L		08/09/16 15:34	08/10/16 19:38	10
Dimethyl phthalate	9.8	U	9.8	0.98	ug/L		08/09/16 15:34	08/10/16 19:38	10
Di-n-butyl phthalate	9.8	U	9.8	3.8	ug/L		08/09/16 15:34	08/10/16 19:38	10
4,6-Dinitro-2-methylphenol	49	U	49	9.8	ug/L		08/09/16 15:34	08/10/16 19:38	10
2,4-Dinitrophenol	98	U	98	11	ug/L		08/09/16 15:34	08/10/16 19:38	10
2,4-Dinitrotoluene	9.8	U	9.8	1.2	ug/L		08/09/16 15:34	08/10/16 19:38	10
2,6-Dinitrotoluene	9.8	U	9.8	1.3	ug/L		08/09/16 15:34	08/10/16 19:38	10
Di-n-octyl phthalate	9.8	U	9.8	1.7	ug/L		08/09/16 15:34	08/10/16 19:38	10
Fluoranthene	2.0	U	2.0	0.98	ug/L		08/09/16 15:34	08/10/16 19:38	10
Fluorene	2.0	U	2.0	0.98	ug/L		08/09/16 15:34	08/10/16 19:38	10
Hexachlorobenzene	9.8	U	9.8	0.98	ug/L		08/09/16 15:34	08/10/16 19:38	10
Hexachlorobutadiene	9.8	U	9.8	0.98	ug/L		08/09/16 15:34	08/10/16 19:38	10
Hexachlorocyclopentadiene	20	U	20	4.9	ug/L		08/09/16 15:34	08/10/16 19:38	10
Hexachloroethane	9.8	U	9.8	4.9	ug/L		08/09/16 15:34	08/10/16 19:38	10
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.98	ug/L		08/09/16 15:34	08/10/16 19:38	10
Isophorone	9.8	U	9.8	0.98	ug/L		08/09/16 15:34	08/10/16 19:38	10
2-Methylnaphthalene	**91**		2.0	0.98	ug/L		08/09/16 15:34	08/10/16 19:38	10
2-Methylphenol	**180**		20	7.3	ug/L		08/09/16 15:34	08/10/16 19:38	10
2-Nitroaniline	9.8	U	9.8	1.6	ug/L		08/09/16 15:34	08/10/16 19:38	10
3-Nitroaniline	49	U	49	1.6	ug/L		08/09/16 15:34	08/10/16 19:38	10
4-Nitroaniline	49	U	49	4.9	ug/L		08/09/16 15:34	08/10/16 19:38	10
Nitrobenzene	9.8	U	9.8	0.98	ug/L		08/09/16 15:34	08/10/16 19:38	10
2-Nitrophenol	9.8	U	9.8	0.98	ug/L		08/09/16 15:34	08/10/16 19:38	10
4-Nitrophenol	79	U	79	39	ug/L		08/09/16 15:34	08/10/16 19:38	10
N-Nitrosodi-n-propylamine	9.8	U	9.8	1.3	ug/L		08/09/16 15:34	08/10/16 19:38	10
N-Nitrosodiphenylamine	9.8	U	9.8	3.6	ug/L		08/09/16 15:34	08/10/16 19:38	10
2,2'-oxybis[1-chloropropane]	9.8	U	9.8	0.98	ug/L		08/09/16 15:34	08/10/16 19:38	10
Pentachlorophenol	49	U	49	3.9	ug/L		08/09/16 15:34	08/10/16 19:38	10
Phenanthrene	2.0	U	2.0	0.98	ug/L		08/09/16 15:34	08/10/16 19:38	10
Phenol	**130**		9.8	1.3	ug/L		08/09/16 15:34	08/10/16 19:38	10
Pyrene	2.0	U	2.0	0.98	ug/L		08/09/16 15:34	08/10/16 19:38	10
2,4,5-Trichlorophenol	9.8	U	9.8	1.2	ug/L		08/09/16 15:34	08/10/16 19:38	10
2,4,6-Trichlorophenol	9.8	U	9.8	1.7	ug/L		08/09/16 15:34	08/10/16 19:38	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*0*	*D*	*31 - 107*	*08/09/16 15:34*	*08/10/16 19:38*	*10*
2-Fluorophenol	*0*	*D*	*18 - 112*	*08/09/16 15:34*	*08/10/16 19:38*	*10*

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Client Sample ID: 1600780-MW-7

Date Collected: 08/05/16 08:30
Date Received: 08/06/16 09:44

Lab Sample ID: 680-128400-4

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*0*	*D*	*37 - 103*	*08/09/16 15:34*	*08/10/16 19:38*	*10*
Phenol-d5 (Surr)	*0*	*D*	*20 - 113*	*08/09/16 15:34*	*08/10/16 19:38*	*10*
Terphenyl-d14 (Surr)	*0*	*D*	*22 - 121*	*08/09/16 15:34*	*08/10/16 19:38*	*10*
2,4,6-Tribromophenol (Surr)	*0*	*D*	*39 - 133*	*08/09/16 15:34*	*08/10/16 19:38*	*10*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	**500**		200	65	ug/L		08/09/16 15:34	08/12/16 13:42	100
Naphthalene	**230**		20	9.8	ug/L		08/09/16 15:34	08/12/16 13:42	100

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.10	U	0.10	0.046	mg/L			08/06/16 16:01	2
Sulfate	1.0	U	1.0	0.40	mg/L			08/16/16 22:43	1
Chloride	**460**		13	5.0	mg/L			08/18/16 01:55	25
Bromide	**0.81**		0.50	0.20	mg/L			08/16/16 22:43	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	20	U	20	5.3	ug/L		08/08/16 18:02	08/10/16 23:58	1
Arsenic	**24**		20	6.2	ug/L		08/08/16 18:02	08/10/16 23:58	1
Beryllium	4.0	U	4.0	0.10	ug/L		08/08/16 18:02	08/10/16 23:58	1
Cadmium	5.0	U	5.0	1.0	ug/L		08/08/16 18:02	08/10/16 23:58	1
Calcium	**270000**	**B**	500	25	ug/L		08/08/16 18:02	08/10/16 23:58	1
Chromium	10	U	10	1.6	ug/L		08/08/16 18:02	08/10/16 23:58	1
Copper	20	U	20	1.8	ug/L		08/08/16 18:02	08/10/16 23:58	1
Iron	**48000**		50	17	ug/L		08/08/16 18:02	08/10/16 23:58	1
Lead	10	U	10	3.9	ug/L		08/08/16 18:02	08/10/16 23:58	1
Magnesium	**52000**		500	33	ug/L		08/08/16 18:02	08/10/16 23:58	1
Manganese	**2200**		10	1.0	ug/L		08/08/16 18:02	08/10/16 23:58	1
Nickel	**3.9**	**J**	40	2.1	ug/L		08/08/16 18:02	08/10/16 23:58	1
Potassium	**2500**		1000	17	ug/L		08/08/16 18:02	08/10/16 23:58	1
Selenium	20	U	20	9.9	ug/L		08/08/16 18:02	08/10/16 23:58	1
Silver	10	U	10	0.60	ug/L		08/08/16 18:02	08/10/16 23:58	1
Sodium	**150000**		10000	4800	ug/L		08/08/16 18:02	08/18/16 00:47	10
Thallium	25	U	25	6.0	ug/L		08/08/16 18:02	08/10/16 23:58	1
Zinc	20	U	20	7.0	ug/L		08/08/16 18:02	08/10/16 23:58	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.080	ug/L		08/09/16 13:30	08/10/16 17:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**470**		5.0	5.0	mg/L			08/16/16 20:08	1
Bicarbonate Alkalinity as CaCO3	**470**		5.0	5.0	mg/L			08/16/16 20:08	1
Ammonia	**0.31**		0.25	0.10	mg/L			08/16/16 10:40	1
Phosphorus	**0.20**		0.10	0.041	mg/L		08/17/16 09:14	08/18/16 13:43	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**1600**		20	20	mg/L			08/09/16 13:37	1

Client Sample ID: 1600780-MW-7

Lab Sample ID: 680-128400-4

Date Collected: 08/05/16 08:30

Matrix: Water

Date Received: 08/06/16 09:44

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	1.0	U	1.0	1.0	mg/L			08/11/16 07:50	1

Client Sample ID: 1600780-MW-3

Lab Sample ID: 680-128400-5

Date Collected: 08/05/16 09:57

Matrix: Water

Date Received: 08/06/16 09:44

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	100	U	100	70	ug/L			08/15/16 16:09	10
Benzene	**1600**		10	4.3	ug/L			08/15/16 16:09	10
Bromobenzene	10	U	10	5.0	ug/L			08/15/16 16:09	10
Bromochloromethane	10	U	10	4.5	ug/L			08/15/16 16:09	10
Bromodichloromethane	10	U	10	4.4	ug/L			08/15/16 16:09	10
Bromoform	10	U	10	4.3	ug/L			08/15/16 16:09	10
Bromomethane	50	U	50	25	ug/L			08/15/16 16:09	10
2-Butanone (MEK)	100	U	100	34	ug/L			08/15/16 16:09	10
Carbon disulfide	20	U	20	10	ug/L			08/15/16 16:09	10
Carbon tetrachloride	10	U	10	3.3	ug/L			08/15/16 16:09	10
Chlorobenzene	10	U	10	2.6	ug/L			08/15/16 16:09	10
Chloroethane	50	U	50	25	ug/L			08/15/16 16:09	10
Chloroform	10	U	10	5.0	ug/L			08/15/16 16:09	10
Chloromethane	10	U	10	4.0	ug/L			08/15/16 16:09	10
2-Chlorotoluene	10	U	10	2.7	ug/L			08/15/16 16:09	10
4-Chlorotoluene	10	U	10	4.5	ug/L			08/15/16 16:09	10
cis-1,2-Dichloroethene	10	U	10	4.1	ug/L			08/15/16 16:09	10
cis-1,3-Dichloropropene	10	U	10	4.0	ug/L			08/15/16 16:09	10
Dibromochloromethane	10	U	10	3.2	ug/L			08/15/16 16:09	10
Dibromomethane	10	U	10	3.5	ug/L			08/15/16 16:09	10
Dichlorodifluoromethane	10	U	10	6.0	ug/L			08/15/16 16:09	10
1,1-Dichloroethane	10	U	10	3.8	ug/L			08/15/16 16:09	10
1,2-Dichloroethane	10	U	10	5.0	ug/L			08/15/16 16:09	10
1,1-Dichloroethene	10	U	10	3.6	ug/L			08/15/16 16:09	10
1,2-Dichloroethene, Total	20	U	20	3.7	ug/L			08/15/16 16:09	10
1,2-Dichloropropane	10	U	10	6.7	ug/L			08/15/16 16:09	10
1,3-Dichloropropane	10	U	10	3.4	ug/L			08/15/16 16:09	10
2,2-Dichloropropane	10	U	10	3.7	ug/L			08/15/16 16:09	10
1,1-Dichloropropene	10	U	10	3.4	ug/L			08/15/16 16:09	10
Ethylbenzene	**350**		10	3.3	ug/L			08/15/16 16:09	10
2-Hexanone	**160**		100	20	ug/L			08/15/16 16:09	10
Isopropylbenzene	**150**		10	3.5	ug/L			08/15/16 16:09	10
Methylene Chloride	50	U	50	25	ug/L			08/15/16 16:09	10
4-Methyl-2-pentanone	100	U	100	21	ug/L			08/15/16 16:09	10
Methyl tert-butyl ether	100	U	100	3.0	ug/L			08/15/16 16:09	10
m-Xylene & p-Xylene	**6.6**	**J**	10	3.5	ug/L			08/15/16 16:09	10
n-Butylbenzene	10	U	10	4.7	ug/L			08/15/16 16:09	10
N-Propylbenzene	**410**		10	3.8	ug/L			08/15/16 16:09	10
o-Xylene	10	U	10	2.3	ug/L			08/15/16 16:09	10
p-Isopropyltoluene	**6.6**	**J**	10	4.8	ug/L			08/15/16 16:09	10
sec-Butylbenzene	10	U	10	4.2	ug/L			08/15/16 16:09	10
Styrene	10	U	10	2.7	ug/L			08/15/16 16:09	10

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Client Sample ID: 1600780-MW-3

Date Collected: 08/05/16 09:57
Date Received: 08/06/16 09:44

Lab Sample ID: 680-128400-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	10	U	10	4.5	ug/L			08/15/16 16:09	10
1,1,1,2-Tetrachloroethane	10	U	10	3.7	ug/L			08/15/16 16:09	10
1,1,2,2-Tetrachloroethane	10	U	10	6.2	ug/L			08/15/16 16:09	10
Tetrachloroethene	10	U	10	7.4	ug/L			08/15/16 16:09	10
Toluene	**7.6**	**J**	10	4.8	ug/L			08/15/16 16:09	10
trans-1,2-Dichloroethene	10	U	10	3.7	ug/L			08/15/16 16:09	10
trans-1,3-Dichloropropene	10	U	10	4.2	ug/L			08/15/16 16:09	10
1,2,3-Trichlorobenzene	50	U	50	25	ug/L			08/15/16 16:09	10
1,1,1-Trichloroethane	10	U	10	3.7	ug/L			08/15/16 16:09	10
1,1,2-Trichloroethane	10	U	10	3.3	ug/L			08/15/16 16:09	10
Trichloroethene	10	U	10	4.8	ug/L			08/15/16 16:09	10
Trichlorofluoromethane	10	U	10	4.2	ug/L			08/15/16 16:09	10
1,2,4-Trimethylbenzene	**42**		10	4.7	ug/L			08/15/16 16:09	10
1,3,5-Trimethylbenzene	10	U	10	3.1	ug/L			08/15/16 16:09	10
Vinyl acetate	20	U	20	8.1	ug/L			08/15/16 16:09	10
Vinyl chloride	10	U	10	5.0	ug/L			08/15/16 16:09	10
Xylenes, Total	**6.6**	**J**	10	2.3	ug/L			08/15/16 16:09	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*08/15/16 16:09*	*10*
Dibromofluoromethane (Surr)	*103*		*80 - 122*		*08/15/16 16:09*	*10*
1,2-Dichloroethane-d4 (Surr)	*107*		*73 - 131*		*08/15/16 16:09*	*10*
Toluene-d8 (Surr)	*95*		*80 - 120*		*08/15/16 16:09*	*10*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 20:04	10
Acenaphthylene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 20:04	10
Acetophenone	9.6	U	9.6	2.9	ug/L		08/09/16 15:34	08/10/16 20:04	10
Anthracene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 20:04	10
Atrazine	38	U	38	19	ug/L		08/09/16 15:34	08/10/16 20:04	10
Benzaldehyde	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 20:04	10
Benzo[a]anthracene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 20:04	10
Benzo[a]pyrene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 20:04	10
Benzo[b]fluoranthene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 20:04	10
Benzo[g,h,i]perylene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 20:04	10
Benzo[k]fluoranthene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 20:04	10
1,1'-Biphenyl	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 20:04	10
Bis(2-chloroethoxy)methane	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 20:04	10
Bis(2-chloroethyl)ether	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 20:04	10
Bis(2-ethylhexyl) phthalate	48	U	48	19	ug/L		08/09/16 15:34	08/10/16 20:04	10
4-Bromophenyl phenyl ether	9.6	U	9.6	1.1	ug/L		08/09/16 15:34	08/10/16 20:04	10
Butyl benzyl phthalate	9.6	U	9.6	1.1	ug/L		08/09/16 15:34	08/10/16 20:04	10
Caprolactam	9.6	U	9.6	1.2	ug/L		08/09/16 15:34	08/10/16 20:04	10
Carbazole	19	U	19	0.96	ug/L		08/09/16 15:34	08/10/16 20:04	10
4-Chloroaniline	38	U	38	19	ug/L		08/09/16 15:34	08/10/16 20:04	10
4-Chloro-3-methylphenol	9.6	U	9.6	1.1	ug/L		08/09/16 15:34	08/10/16 20:04	10
2-Chloronaphthalene	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 20:04	10
2-Chlorophenol	9.6	U	9.6	1.1	ug/L		08/09/16 15:34	08/10/16 20:04	10
4-Chlorophenyl phenyl ether	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 20:04	10

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Client Sample ID: 1600780-MW-3
Date Collected: 08/05/16 09:57
Date Received: 08/06/16 09:44

Lab Sample ID: 680-128400-5
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	1.9	U	1.9	0.43	ug/L		08/09/16 15:34	08/10/16 20:04	10
Dibenz(a,h)anthracene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 20:04	10
Dibenzofuran	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 20:04	10
3,3'-Dichlorobenzidine	190	U	190	19	ug/L		08/09/16 15:34	08/10/16 20:04	10
2,4-Dichlorophenol	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 20:04	10
Diethyl phthalate	9.6	U	9.6	1.1	ug/L		08/09/16 15:34	08/10/16 20:04	10
2,4-Dimethylphenol	19	U	19	6.6	ug/L		08/09/16 15:34	08/10/16 20:04	10
Dimethyl phthalate	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 20:04	10
Di-n-butyl phthalate	9.6	U	9.6	3.7	ug/L		08/09/16 15:34	08/10/16 20:04	10
4,6-Dinitro-2-methylphenol	48	U	48	9.6	ug/L		08/09/16 15:34	08/10/16 20:04	10
2,4-Dinitrophenol	96	U	96	11	ug/L		08/09/16 15:34	08/10/16 20:04	10
2,4-Dinitrotoluene	9.6	U	9.6	1.1	ug/L		08/09/16 15:34	08/10/16 20:04	10
2,6-Dinitrotoluene	9.6	U	9.6	1.2	ug/L		08/09/16 15:34	08/10/16 20:04	10
Di-n-octyl phthalate	9.6	U	9.6	1.6	ug/L		08/09/16 15:34	08/10/16 20:04	10
Fluoranthene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 20:04	10
Fluorene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 20:04	10
Hexachlorobenzene	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 20:04	10
Hexachlorobutadiene	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 20:04	10
Hexachlorocyclopentadiene	19	U	19	4.8	ug/L		08/09/16 15:34	08/10/16 20:04	10
Hexachloroethane	9.6	U	9.6	4.8	ug/L		08/09/16 15:34	08/10/16 20:04	10
Indeno[1,2,3-cd]pyrene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 20:04	10
Isophorone	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 20:04	10
2-Methylnaphthalene	**3.2**		1.9	0.96	ug/L		08/09/16 15:34	08/10/16 20:04	10
2-Methylphenol	19	U	19	7.1	ug/L		08/09/16 15:34	08/10/16 20:04	10
3 & 4 Methylphenol	19	U	19	6.3	ug/L		08/09/16 15:34	08/10/16 20:04	10
Naphthalene	**12**		1.9	0.96	ug/L		08/09/16 15:34	08/10/16 20:04	10
2-Nitroaniline	9.6	U	9.6	1.5	ug/L		08/09/16 15:34	08/10/16 20:04	10
3-Nitroaniline	48	U	48	1.5	ug/L		08/09/16 15:34	08/10/16 20:04	10
4-Nitroaniline	48	U	48	4.8	ug/L		08/09/16 15:34	08/10/16 20:04	10
Nitrobenzene	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 20:04	10
2-Nitrophenol	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 20:04	10
4-Nitrophenol	76	U	76	38	ug/L		08/09/16 15:34	08/10/16 20:04	10
N-Nitrosodi-n-propylamine	9.6	U	9.6	1.2	ug/L		08/09/16 15:34	08/10/16 20:04	10
N-Nitrosodiphenylamine	9.6	U	9.6	3.5	ug/L		08/09/16 15:34	08/10/16 20:04	10
2,2'-oxybis[1-chloropropane]	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 20:04	10
Pentachlorophenol	48	U	48	3.8	ug/L		08/09/16 15:34	08/10/16 20:04	10
Phenanthrene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 20:04	10
Phenol	**17**		9.6	1.2	ug/L		08/09/16 15:34	08/10/16 20:04	10
Pyrene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 20:04	10
2,4,5-Trichlorophenol	9.6	U	9.6	1.1	ug/L		08/09/16 15:34	08/10/16 20:04	10
2,4,6-Trichlorophenol	9.6	U	9.6	1.6	ug/L		08/09/16 15:34	08/10/16 20:04	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*0*	*D*	*31 - 107*	*08/09/16 15:34*	*08/10/16 20:04*	*10*
2-Fluorophenol	*0*	*D*	*18 - 112*	*08/09/16 15:34*	*08/10/16 20:04*	*10*
Nitrobenzene-d5 (Surr)	*0*	*D*	*37 - 103*	*08/09/16 15:34*	*08/10/16 20:04*	*10*
Phenol-d5 (Surr)	*0*	*D*	*20 - 113*	*08/09/16 15:34*	*08/10/16 20:04*	*10*
Terphenyl-d14 (Surr)	*0*	*D*	*22 - 121*	*08/09/16 15:34*	*08/10/16 20:04*	*10*
2,4,6-Tribromophenol (Surr)	*0*	*D*	*39 - 133*	*08/09/16 15:34*	*08/10/16 20:04*	*10*

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Client Sample ID: 1600780-MW-3

Lab Sample ID: 680-128400-5

Date Collected: 08/05/16 09:57
Matrix: Water
Date Received: 08/06/16 09:44

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.050	U	0.050	0.023	mg/L			08/06/16 17:06	1
Sulfate	**4.3**		1.0	0.40	mg/L			08/17/16 22:43	1
Chloride	**140**		2.5	1.0	mg/L			08/18/16 02:12	5
Bromide	**0.37**	**J**	0.50	0.20	mg/L			08/17/16 22:43	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	20	U	20	5.3	ug/L		08/08/16 18:02	08/11/16 00:02	1
Arsenic	20	U	20	6.2	ug/L		08/08/16 18:02	08/11/16 00:02	1
Beryllium	4.0	U	4.0	0.10	ug/L		08/08/16 18:02	08/11/16 00:02	1
Cadmium	5.0	U	5.0	1.0	ug/L		08/08/16 18:02	08/11/16 00:02	1
Calcium	**130000**	**B**	500	25	ug/L		08/08/16 18:02	08/11/16 00:02	1
Chromium	10	U	10	1.6	ug/L		08/08/16 18:02	08/11/16 00:02	1
Copper	**1.9**	**J**	20	1.8	ug/L		08/08/16 18:02	08/11/16 00:02	1
Iron	**9300**		50	17	ug/L		08/08/16 18:02	08/11/16 00:02	1
Lead	10	U	10	3.9	ug/L		08/08/16 18:02	08/11/16 00:02	1
Magnesium	**28000**		500	33	ug/L		08/08/16 18:02	08/11/16 00:02	1
Manganese	**4500**		10	1.0	ug/L		08/08/16 18:02	08/11/16 00:02	1
Nickel	**2.2**	**J**	40	2.1	ug/L		08/08/16 18:02	08/11/16 00:02	1
Potassium	**430**	**J**	1000	17	ug/L		08/08/16 18:02	08/11/16 00:02	1
Selenium	20	U	20	9.9	ug/L		08/08/16 18:02	08/11/16 00:02	1
Silver	10	U	10	0.60	ug/L		08/08/16 18:02	08/11/16 00:02	1
Sodium	**91000**		10000	4800	ug/L		08/08/16 18:02	08/18/16 00:52	10
Thallium	25	U	25	6.0	ug/L		08/08/16 18:02	08/11/16 00:02	1
Zinc	20	U	20	7.0	ug/L		08/08/16 18:02	08/11/16 00:02	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.080	ug/L		08/09/16 13:30	08/10/16 17:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**450**		5.0	5.0	mg/L			08/16/16 20:17	1
Bicarbonate Alkalinity as CaCO3	**440**		5.0	5.0	mg/L			08/16/16 20:17	1
Ammonia	0.25	U F1	0.25	0.10	mg/L			08/16/16 10:30	1
Phosphorus	**0.074**	**J**	0.10	0.041	mg/L		08/17/16 09:14	08/18/16 13:53	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**1100**		10	10	mg/L			08/09/16 11:54	1
Sulfide	1.0	U	1.0	1.0	mg/L			08/11/16 07:50	1

Client Sample ID: 1600780-RW-2

Lab Sample ID: 680-128400-6

Date Collected: 08/05/16 11:02
Matrix: Water
Date Received: 08/06/16 09:44

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	500	U	500	350	ug/L			08/16/16 18:18	50
Benzene	**4600**		50	22	ug/L			08/16/16 18:18	50
Bromobenzene	50	U	50	25	ug/L			08/16/16 18:18	50
Bromochloromethane	50	U	50	23	ug/L			08/16/16 18:18	50

Client Sample ID: 1600780-RW-2

Lab Sample ID: 680-128400-6

Date Collected: 08/05/16 11:02

Matrix: Water

Date Received: 08/06/16 09:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	50	U	50	22	ug/L			08/16/16 18:18	50
Bromoform	50	U	50	22	ug/L			08/16/16 18:18	50
Bromomethane	250	U	250	130	ug/L			08/16/16 18:18	50
2-Butanone (MEK)	500	U	500	170	ug/L			08/16/16 18:18	50
Carbon disulfide	100	U	100	50	ug/L			08/16/16 18:18	50
Carbon tetrachloride	50	U	50	17	ug/L			08/16/16 18:18	50
Chlorobenzene	50	U	50	13	ug/L			08/16/16 18:18	50
Chloroethane	250	U	250	130	ug/L			08/16/16 18:18	50
Chloroform	50	U	50	25	ug/L			08/16/16 18:18	50
Chloromethane	50	U	50	20	ug/L			08/16/16 18:18	50
2-Chlorotoluene	50	U	50	14	ug/L			08/16/16 18:18	50
4-Chlorotoluene	50	U	50	23	ug/L			08/16/16 18:18	50
cis-1,2-Dichloroethene	50	U	50	21	ug/L			08/16/16 18:18	50
cis-1,3-Dichloropropene	50	U	50	20	ug/L			08/16/16 18:18	50
Dibromochloromethane	50	U	50	16	ug/L			08/16/16 18:18	50
Dibromomethane	50	U	50	18	ug/L			08/16/16 18:18	50
Dichlorodifluoromethane	50	U	50	30	ug/L			08/16/16 18:18	50
1,1-Dichloroethane	50	U	50	19	ug/L			08/16/16 18:18	50
1,2-Dichloroethane	50	U	50	25	ug/L			08/16/16 18:18	50
1,1-Dichloroethene	50	U	50	18	ug/L			08/16/16 18:18	50
1,2-Dichloroethene, Total	100	U	100	19	ug/L			08/16/16 18:18	50
1,2-Dichloropropane	50	U	50	34	ug/L			08/16/16 18:18	50
1,3-Dichloropropane	50	U	50	17	ug/L			08/16/16 18:18	50
2,2-Dichloropropane	50	U	50	19	ug/L			08/16/16 18:18	50
1,1-Dichloropropene	50	U	50	17	ug/L			08/16/16 18:18	50
Ethylbenzene	**2200**		50	17	ug/L			08/16/16 18:18	50
2-Hexanone	500	U	500	100	ug/L			08/16/16 18:18	50
Isopropylbenzene	**100**		50	18	ug/L			08/16/16 18:18	50
Methylene Chloride	250	U	250	130	ug/L			08/16/16 18:18	50
4-Methyl-2-pentanone	500	U	500	110	ug/L			08/16/16 18:18	50
Methyl tert-butyl ether	500	U	500	15	ug/L			08/16/16 18:18	50
m-Xylene & p-Xylene	**4900**		50	18	ug/L			08/16/16 18:18	50
n-Butylbenzene	50	U	50	24	ug/L			08/16/16 18:18	50
N-Propylbenzene	**280**		50	19	ug/L			08/16/16 18:18	50
o-Xylene	**1900**		50	12	ug/L			08/16/16 18:18	50
p-Isopropyltoluene	50	U	50	24	ug/L			08/16/16 18:18	50
sec-Butylbenzene	50	U	50	21	ug/L			08/16/16 18:18	50
Styrene	50	U	50	14	ug/L			08/16/16 18:18	50
tert-Butylbenzene	50	U	50	23	ug/L			08/16/16 18:18	50
1,1,1,2-Tetrachloroethane	50	U	50	19	ug/L			08/16/16 18:18	50
1,1,2,2-Tetrachloroethane	50	U	50	31	ug/L			08/16/16 18:18	50
Tetrachloroethene	50	U	50	37	ug/L			08/16/16 18:18	50
Toluene	**940**		50	24	ug/L			08/16/16 18:18	50
trans-1,2-Dichloroethene	50	U	50	19	ug/L			08/16/16 18:18	50
trans-1,3-Dichloropropene	50	U	50	21	ug/L			08/16/16 18:18	50
1,2,3-Trichlorobenzene	250	U	250	130	ug/L			08/16/16 18:18	50
1,1,1-Trichloroethane	50	U	50	19	ug/L			08/16/16 18:18	50
1,1,2-Trichloroethane	50	U	50	17	ug/L			08/16/16 18:18	50
Trichloroethene	50	U	50	24	ug/L			08/16/16 18:18	50

Client Sample ID: 1600780-RW-2

Lab Sample ID: 680-128400-6

Date Collected: 08/05/16 11:02

Matrix: Water

Date Received: 08/06/16 09:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	50	U	50	21	ug/L			08/16/16 18:18	50
1,2,4-Trimethylbenzene	**1900**		50	24	ug/L			08/16/16 18:18	50
1,3,5-Trimethylbenzene	**510**		50	16	ug/L			08/16/16 18:18	50
Vinyl acetate	100	U	100	41	ug/L			08/16/16 18:18	50
Vinyl chloride	50	U	50	25	ug/L			08/16/16 18:18	50
Xylenes, Total	**6800**		50	12	ug/L			08/16/16 18:18	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*08/16/16 18:18*	*50*
Dibromofluoromethane (Surr)	*96*		*80 - 122*		*08/16/16 18:18*	*50*
1,2-Dichloroethane-d4 (Surr)	*98*		*73 - 131*		*08/16/16 18:18*	*50*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/16/16 18:18*	*50*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 20:30	10
Acenaphthylene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 20:30	10
Acetophenone	9.6	U	9.6	2.9	ug/L		08/09/16 15:34	08/10/16 20:30	10
Anthracene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 20:30	10
Atrazine	38	U	38	19	ug/L		08/09/16 15:34	08/10/16 20:30	10
Benzaldehyde	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 20:30	10
Benzo[a]anthracene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 20:30	10
Benzo[a]pyrene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 20:30	10
Benzo[b]fluoranthene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 20:30	10
Benzo[g,h,i]perylene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 20:30	10
Benzo[k]fluoranthene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 20:30	10
1,1'-Biphenyl	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 20:30	10
Bis(2-chloroethoxy)methane	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 20:30	10
Bis(2-chloroethyl)ether	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 20:30	10
Bis(2-ethylhexyl) phthalate	48	U	48	19	ug/L		08/09/16 15:34	08/10/16 20:30	10
4-Bromophenyl phenyl ether	9.6	U	9.6	1.2	ug/L		08/09/16 15:34	08/10/16 20:30	10
Butyl benzyl phthalate	9.6	U	9.6	1.2	ug/L		08/09/16 15:34	08/10/16 20:30	10
Caprolactam	9.6	U	9.6	1.2	ug/L		08/09/16 15:34	08/10/16 20:30	10
Carbazole	19	U	19	0.96	ug/L		08/09/16 15:34	08/10/16 20:30	10
4-Chloroaniline	38	U	38	19	ug/L		08/09/16 15:34	08/10/16 20:30	10
4-Chloro-3-methylphenol	9.6	U	9.6	1.2	ug/L		08/09/16 15:34	08/10/16 20:30	10
2-Chloronaphthalene	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 20:30	10
2-Chlorophenol	9.6	U	9.6	1.2	ug/L		08/09/16 15:34	08/10/16 20:30	10
4-Chlorophenyl phenyl ether	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 20:30	10
Chrysene	1.9	U	1.9	0.43	ug/L		08/09/16 15:34	08/10/16 20:30	10
Dibenz(a,h)anthracene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 20:30	10
Dibenzofuran	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 20:30	10
3,3'-Dichlorobenzidine	190	U	190	19	ug/L		08/09/16 15:34	08/10/16 20:30	10
2,4-Dichlorophenol	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 20:30	10
Diethyl phthalate	9.6	U	9.6	1.1	ug/L		08/09/16 15:34	08/10/16 20:30	10
2,4-Dimethylphenol	**52**		19	6.6	ug/L		08/09/16 15:34	08/10/16 20:30	10
Dimethyl phthalate	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 20:30	10
Di-n-butyl phthalate	9.6	U	9.6	3.7	ug/L		08/09/16 15:34	08/10/16 20:30	10
4,6-Dinitro-2-methylphenol	48	U	48	9.6	ug/L		08/09/16 15:34	08/10/16 20:30	10
2,4-Dinitrophenol	96	U	96	11	ug/L		08/09/16 15:34	08/10/16 20:30	10

Client Sample ID: 1600780-RW-2

Lab Sample ID: 680-128400-6

Date Collected: 08/05/16 11:02

Matrix: Water

Date Received: 08/06/16 09:44

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	9.6	U	9.6	1.2	ug/L		08/09/16 15:34	08/10/16 20:30	10
2,6-Dinitrotoluene	9.6	U	9.6	1.2	ug/L		08/09/16 15:34	08/10/16 20:30	10
Di-n-octyl phthalate	9.6	U	9.6	1.6	ug/L		08/09/16 15:34	08/10/16 20:30	10
Fluoranthene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 20:30	10
Fluorene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 20:30	10
Hexachlorobenzene	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 20:30	10
Hexachlorobutadiene	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 20:30	10
Hexachlorocyclopentadiene	19	U	19	4.8	ug/L		08/09/16 15:34	08/10/16 20:30	10
Hexachloroethane	9.6	U	9.6	4.8	ug/L		08/09/16 15:34	08/10/16 20:30	10
Indeno[1,2,3-cd]pyrene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 20:30	10
Isophorone	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 20:30	10
2-Methylnaphthalene	**67**		1.9	0.96	ug/L		08/09/16 15:34	08/10/16 20:30	10
2-Methylphenol	19	U	19	7.1	ug/L		08/09/16 15:34	08/10/16 20:30	10
3 & 4 Methylphenol	19	U	19	6.3	ug/L		08/09/16 15:34	08/10/16 20:30	10
Naphthalene	**160**		1.9	0.96	ug/L		08/09/16 15:34	08/10/16 20:30	10
2-Nitroaniline	9.6	U	9.6	1.5	ug/L		08/09/16 15:34	08/10/16 20:30	10
3-Nitroaniline	48	U	48	1.5	ug/L		08/09/16 15:34	08/10/16 20:30	10
4-Nitroaniline	48	U	48	4.8	ug/L		08/09/16 15:34	08/10/16 20:30	10
Nitrobenzene	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 20:30	10
2-Nitrophenol	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 20:30	10
4-Nitrophenol	77	U	77	38	ug/L		08/09/16 15:34	08/10/16 20:30	10
N-Nitrosodi-n-propylamine	9.6	U	9.6	1.2	ug/L		08/09/16 15:34	08/10/16 20:30	10
N-Nitrosodiphenylamine	9.6	U	9.6	3.5	ug/L		08/09/16 15:34	08/10/16 20:30	10
2,2'-oxybis[1-chloropropane]	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 20:30	10
Pentachlorophenol	48	U	48	3.8	ug/L		08/09/16 15:34	08/10/16 20:30	10
Phenanthrene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 20:30	10
Phenol	**34**		9.6	1.2	ug/L		08/09/16 15:34	08/10/16 20:30	10
Pyrene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 20:30	10
2,4,5-Trichlorophenol	9.6	U	9.6	1.2	ug/L		08/09/16 15:34	08/10/16 20:30	10
2,4,6-Trichlorophenol	9.6	U	9.6	1.6	ug/L		08/09/16 15:34	08/10/16 20:30	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*0*	*D*	*31 - 107*	*08/09/16 15:34*	*08/10/16 20:30*	*10*
2-Fluorophenol	*0*	*D*	*18 - 112*	*08/09/16 15:34*	*08/10/16 20:30*	*10*
Nitrobenzene-d5 (Surr)	*0*	*D*	*37 - 103*	*08/09/16 15:34*	*08/10/16 20:30*	*10*
Phenol-d5 (Surr)	*0*	*D*	*20 - 113*	*08/09/16 15:34*	*08/10/16 20:30*	*10*
Terphenyl-d14 (Surr)	*0*	*D*	*22 - 121*	*08/09/16 15:34*	*08/10/16 20:30*	*10*
2,4,6-Tribromophenol (Surr)	*0*	*D*	*39 - 133*	*08/09/16 15:34*	*08/10/16 20:30*	*10*

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.21**		0.050	0.023	mg/L			08/06/16 17:23	1
Sulfate	**4.5**		1.0	0.40	mg/L			08/17/16 23:01	1
Chloride	**110**		2.5	1.0	mg/L			08/18/16 02:30	5
Bromide	**0.38**	**J**	0.50	0.20	mg/L			08/17/16 23:01	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	20	U	20	5.3	ug/L		08/08/16 18:02	08/11/16 00:07	1
Arsenic	20	U	20	6.2	ug/L		08/08/16 18:02	08/11/16 00:07	1

Client Sample ID: 1600780-RW-2

Lab Sample ID: 680-128400-6

Date Collected: 08/05/16 11:02

Matrix: Water

Date Received: 08/06/16 09:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	4.0	U	4.0	0.10	ug/L		08/08/16 18:02	08/11/16 00:07	1
Cadmium	5.0	U	5.0	1.0	ug/L		08/08/16 18:02	08/11/16 00:07	1
Calcium	**210000**	**B**	500	25	ug/L		08/08/16 18:02	08/11/16 00:07	1
Chromium	10	U	10	1.6	ug/L		08/08/16 18:02	08/11/16 00:07	1
Copper	20	U	20	1.8	ug/L		08/08/16 18:02	08/11/16 00:07	1
Iron	**8100**		50	17	ug/L		08/08/16 18:02	08/11/16 00:07	1
Lead	10	U	10	3.9	ug/L		08/08/16 18:02	08/11/16 00:07	1
Magnesium	**39000**		500	33	ug/L		08/08/16 18:02	08/11/16 00:07	1
Manganese	**1500**		10	1.0	ug/L		08/08/16 18:02	08/11/16 00:07	1
Nickel	**3.0**	**J**	40	2.1	ug/L		08/08/16 18:02	08/11/16 00:07	1
Potassium	**2700**		1000	17	ug/L		08/08/16 18:02	08/11/16 00:07	1
Selenium	20	U	20	9.9	ug/L		08/08/16 18:02	08/11/16 00:07	1
Silver	10	U	10	0.60	ug/L		08/08/16 18:02	08/11/16 00:07	1
Sodium	**69000**		1000	480	ug/L		08/08/16 18:02	08/11/16 00:07	1
Thallium	25	U	25	6.0	ug/L		08/08/16 18:02	08/11/16 00:07	1
Zinc	20	U	20	7.0	ug/L		08/08/16 18:02	08/11/16 00:07	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.080	ug/L		08/09/16 13:30	08/10/16 17:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**690**		5.0	5.0	mg/L			08/16/16 20:30	1
Bicarbonate Alkalinity as CaCO3	**680**		5.0	5.0	mg/L			08/16/16 20:30	1
Ammonia	**0.55**		0.25	0.10	mg/L			08/16/16 10:40	1
Phosphorus	**0.37**		0.10	0.041	mg/L		08/17/16 09:14	08/18/16 13:45	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**750**		10	10	mg/L			08/09/16 11:54	1
Sulfide	1.0	U	1.0	1.0	mg/L			08/11/16 07:50	1

Client Sample ID: 1600780-RW-1

Lab Sample ID: 680-128400-7

Date Collected: 08/05/16 11:30

Matrix: Water

Date Received: 08/06/16 09:44

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	2.1	U	2.1	1.0	ug/L		08/09/16 15:34	08/10/16 20:56	10
Acenaphthylene	2.1	U	2.1	1.0	ug/L		08/09/16 15:34	08/10/16 20:56	10
Acetophenone	10	U	10	3.1	ug/L		08/09/16 15:34	08/10/16 20:56	10
Anthracene	2.1	U	2.1	1.0	ug/L		08/09/16 15:34	08/10/16 20:56	10
Atrazine	41	U	41	21	ug/L		08/09/16 15:34	08/10/16 20:56	10
Benzaldehyde	10	U	10	1.0	ug/L		08/09/16 15:34	08/10/16 20:56	10
Benzo[a]anthracene	2.1	U	2.1	1.0	ug/L		08/09/16 15:34	08/10/16 20:56	10
Benzo[a]pyrene	2.1	U	2.1	1.0	ug/L		08/09/16 15:34	08/10/16 20:56	10
Benzo[b]fluoranthene	2.1	U	2.1	1.0	ug/L		08/09/16 15:34	08/10/16 20:56	10
Benzo[g,h,i]perylene	2.1	U	2.1	1.0	ug/L		08/09/16 15:34	08/10/16 20:56	10
Benzo[k]fluoranthene	2.1	U	2.1	1.0	ug/L		08/09/16 15:34	08/10/16 20:56	10
1,1'-Biphenyl	10	U	10	1.0	ug/L		08/09/16 15:34	08/10/16 20:56	10
Bis(2-chloroethoxy)methane	10	U	10	1.0	ug/L		08/09/16 15:34	08/10/16 20:56	10

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Client Sample ID: 1600780-RW-1
Date Collected: 08/05/16 11:30
Date Received: 08/06/16 09:44

Lab Sample ID: 680-128400-7
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	10	U	10	1.0	ug/L		08/09/16 15:34	08/10/16 20:56	10
Bis(2-ethylhexyl) phthalate	52	U	52	21	ug/L		08/09/16 15:34	08/10/16 20:56	10
4-Bromophenyl phenyl ether	10	U	10	1.2	ug/L		08/09/16 15:34	08/10/16 20:56	10
Butyl benzyl phthalate	10	U	10	1.2	ug/L		08/09/16 15:34	08/10/16 20:56	10
Caprolactam	10	U	10	1.3	ug/L		08/09/16 15:34	08/10/16 20:56	10
Carbazole	21	U	21	1.0	ug/L		08/09/16 15:34	08/10/16 20:56	10
4-Chloroaniline	41	U	41	21	ug/L		08/09/16 15:34	08/10/16 20:56	10
4-Chloro-3-methylphenol	10	U	10	1.2	ug/L		08/09/16 15:34	08/10/16 20:56	10
2-Chloronaphthalene	10	U	10	1.0	ug/L		08/09/16 15:34	08/10/16 20:56	10
2-Chlorophenol	10	U	10	1.2	ug/L		08/09/16 15:34	08/10/16 20:56	10
4-Chlorophenyl phenyl ether	10	U	10	1.0	ug/L		08/09/16 15:34	08/10/16 20:56	10
Chrysene	2.1	U	2.1	0.47	ug/L		08/09/16 15:34	08/10/16 20:56	10
Dibenz(a,h)anthracene	2.1	U	2.1	1.0	ug/L		08/09/16 15:34	08/10/16 20:56	10
Dibenzofuran	10	U	10	1.0	ug/L		08/09/16 15:34	08/10/16 20:56	10
3,3'-Dichlorobenzidine	210	U	210	21	ug/L		08/09/16 15:34	08/10/16 20:56	10
2,4-Dichlorophenol	10	U	10	1.0	ug/L		08/09/16 15:34	08/10/16 20:56	10
Diethyl phthalate	10	U	10	1.1	ug/L		08/09/16 15:34	08/10/16 20:56	10
2,4-Dimethylphenol	**30**		21	7.1	ug/L		08/09/16 15:34	08/10/16 20:56	10
Dimethyl phthalate	10	U	10	1.0	ug/L		08/09/16 15:34	08/10/16 20:56	10
Di-n-butyl phthalate	10	U	10	4.0	ug/L		08/09/16 15:34	08/10/16 20:56	10
4,6-Dinitro-2-methylphenol	52	U	52	10	ug/L		08/09/16 15:34	08/10/16 20:56	10
2,4-Dinitrophenol	100	U	100	11	ug/L		08/09/16 15:34	08/10/16 20:56	10
2,4-Dinitrotoluene	10	U	10	1.2	ug/L		08/09/16 15:34	08/10/16 20:56	10
2,6-Dinitrotoluene	10	U	10	1.3	ug/L		08/09/16 15:34	08/10/16 20:56	10
Di-n-octyl phthalate	10	U	10	1.8	ug/L		08/09/16 15:34	08/10/16 20:56	10
Fluoranthene	2.1	U	2.1	1.0	ug/L		08/09/16 15:34	08/10/16 20:56	10
Fluorene	2.1	U	2.1	1.0	ug/L		08/09/16 15:34	08/10/16 20:56	10
Hexachlorobenzene	10	U	10	1.0	ug/L		08/09/16 15:34	08/10/16 20:56	10
Hexachlorobutadiene	10	U	10	1.0	ug/L		08/09/16 15:34	08/10/16 20:56	10
Hexachlorocyclopentadiene	21	U	21	5.2	ug/L		08/09/16 15:34	08/10/16 20:56	10
Hexachloroethane	10	U	10	5.2	ug/L		08/09/16 15:34	08/10/16 20:56	10
Indeno[1,2,3-cd]pyrene	2.1	U	2.1	1.0	ug/L		08/09/16 15:34	08/10/16 20:56	10
Isophorone	10	U	10	1.0	ug/L		08/09/16 15:34	08/10/16 20:56	10
2-Methylnaphthalene	**39**		2.1	1.0	ug/L		08/09/16 15:34	08/10/16 20:56	10
2-Methylphenol	**30**		21	7.7	ug/L		08/09/16 15:34	08/10/16 20:56	10
3 & 4 Methylphenol	**35**		21	6.8	ug/L		08/09/16 15:34	08/10/16 20:56	10
Naphthalene	**150**		2.1	1.0	ug/L		08/09/16 15:34	08/10/16 20:56	10
2-Nitroaniline	10	U	10	1.7	ug/L		08/09/16 15:34	08/10/16 20:56	10
3-Nitroaniline	52	U	52	1.7	ug/L		08/09/16 15:34	08/10/16 20:56	10
4-Nitroaniline	52	U	52	5.2	ug/L		08/09/16 15:34	08/10/16 20:56	10
Nitrobenzene	10	U	10	1.0	ug/L		08/09/16 15:34	08/10/16 20:56	10
2-Nitrophenol	10	U	10	1.0	ug/L		08/09/16 15:34	08/10/16 20:56	10
4-Nitrophenol	83	U	83	41	ug/L		08/09/16 15:34	08/10/16 20:56	10
N-Nitrosodi-n-propylamine	10	U	10	1.3	ug/L		08/09/16 15:34	08/10/16 20:56	10
N-Nitrosodiphenylamine	10	U	10	3.8	ug/L		08/09/16 15:34	08/10/16 20:56	10
2,2'-oxybis[1-chloropropane]	10	U	10	1.0	ug/L		08/09/16 15:34	08/10/16 20:56	10
Pentachlorophenol	52	U	52	4.1	ug/L		08/09/16 15:34	08/10/16 20:56	10
Phenanthrene	2.1	U	2.1	1.0	ug/L		08/09/16 15:34	08/10/16 20:56	10
Phenol	**32**		10	1.3	ug/L		08/09/16 15:34	08/10/16 20:56	10

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Client Sample ID: 1600780-RW-1

Date Collected: 08/05/16 11:30
Date Received: 08/06/16 09:44

Lab Sample ID: 680-128400-7

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	2.1	U	2.1	1.0	ug/L		08/09/16 15:34	08/10/16 20:56	10
2,4,5-Trichlorophenol	10	U	10	1.2	ug/L		08/09/16 15:34	08/10/16 20:56	10
2,4,6-Trichlorophenol	10	U	10	1.8	ug/L		08/09/16 15:34	08/10/16 20:56	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*0*	*D*	*31 - 107*	*08/09/16 15:34*	*08/10/16 20:56*	*10*
2-Fluorophenol	*0*	*D*	*18 - 112*	*08/09/16 15:34*	*08/10/16 20:56*	*10*
Nitrobenzene-d5 (Surr)	*0*	*D*	*37 - 103*	*08/09/16 15:34*	*08/10/16 20:56*	*10*
Phenol-d5 (Surr)	*0*	*D*	*20 - 113*	*08/09/16 15:34*	*08/10/16 20:56*	*10*
Terphenyl-d14 (Surr)	*0*	*D*	*22 - 121*	*08/09/16 15:34*	*08/10/16 20:56*	*10*
2,4,6-Tribromophenol (Surr)	*0*	*D*	*39 - 133*	*08/09/16 15:34*	*08/10/16 20:56*	*10*

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.050	U	0.050	0.023	mg/L			08/06/16 17:39	1
Sulfate	**9.4**		1.0	0.40	mg/L			08/17/16 23:18	1
Chloride	**94**		2.0	0.80	mg/L			08/18/16 02:47	4
Bromide	**0.39**	**J**	0.50	0.20	mg/L			08/17/16 23:18	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	20	U	20	5.3	ug/L		08/08/16 18:02	08/11/16 00:19	1
Arsenic	**9.9**	**J**	20	6.2	ug/L		08/08/16 18:02	08/11/16 00:19	1
Beryllium	4.0	U	4.0	0.10	ug/L		08/08/16 18:02	08/11/16 00:19	1
Cadmium	5.0	U	5.0	1.0	ug/L		08/08/16 18:02	08/11/16 00:19	1
Calcium	**130000**	**B**	500	25	ug/L		08/08/16 18:02	08/11/16 00:19	1
Chromium	10	U	10	1.6	ug/L		08/08/16 18:02	08/11/16 00:19	1
Copper	**3.8**	**J**	20	1.8	ug/L		08/08/16 18:02	08/11/16 00:19	1
Iron	**6800**		50	17	ug/L		08/08/16 18:02	08/11/16 00:19	1
Lead	10	U	10	3.9	ug/L		08/08/16 18:02	08/11/16 00:19	1
Magnesium	**23000**		500	33	ug/L		08/08/16 18:02	08/11/16 00:19	1
Manganese	**3400**		10	1.0	ug/L		08/08/16 18:02	08/11/16 00:19	1
Nickel	**3.1**	**J**	40	2.1	ug/L		08/08/16 18:02	08/11/16 00:19	1
Potassium	**8800**		1000	17	ug/L		08/08/16 18:02	08/11/16 00:19	1
Selenium	20	U	20	9.9	ug/L		08/08/16 18:02	08/11/16 00:19	1
Silver	10	U	10	0.60	ug/L		08/08/16 18:02	08/11/16 00:19	1
Sodium	**150000**		10000	4800	ug/L		08/08/16 18:02	08/18/16 01:05	10
Thallium	25	U	25	6.0	ug/L		08/08/16 18:02	08/11/16 00:19	1
Zinc	20	U	20	7.0	ug/L		08/08/16 18:02	08/11/16 00:19	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.080	ug/L		08/09/16 13:30	08/10/16 18:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**620**		5.0	5.0	mg/L			08/16/16 20:42	1
Bicarbonate Alkalinity as CaCO3	**620**		5.0	5.0	mg/L			08/16/16 20:42	1
Ammonia	**0.61**		0.25	0.10	mg/L			08/16/16 10:40	1
Phosphorus	**0.14**		0.10	0.041	mg/L		08/17/16 09:14	08/18/16 13:52	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Client Sample ID: 1600780-RW-1

Lab Sample ID: 680-128400-7
Date Collected: 08/05/16 11:30
Matrix: Water
Date Received: 08/06/16 09:44

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	870		10	10	mg/L			08/09/16 11:54	1
Sulfide	1.0	U	1.0	1.0	mg/L			08/11/16 09:15	1

Client Sample ID: 1600780-MW-22

Lab Sample ID: 680-128400-8
Date Collected: 08/05/16 12:37
Matrix: Water
Date Received: 08/06/16 09:44

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.050	U	0.050	0.023	mg/L			08/06/16 18:28	1
Sulfate	0.54	J	1.0	0.40	mg/L			08/18/16 00:10	1
Chloride	190		5.0	2.0	mg/L			08/17/16 22:56	10
Bromide	0.53		0.50	0.20	mg/L			08/18/16 00:10	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	20	U	20	5.3	ug/L		08/08/16 18:02	08/11/16 00:23	1
Arsenic	13	J	20	6.2	ug/L		08/08/16 18:02	08/11/16 00:23	1
Beryllium	4.0	U	4.0	0.10	ug/L		08/08/16 18:02	08/11/16 00:23	1
Cadmium	5.0	U	5.0	1.0	ug/L		08/08/16 18:02	08/11/16 00:23	1
Calcium	170000	B	500	25	ug/L		08/08/16 18:02	08/11/16 00:23	1
Chromium	10	U	10	1.6	ug/L		08/08/16 18:02	08/11/16 00:23	1
Copper	20	U	20	1.8	ug/L		08/08/16 18:02	08/11/16 00:23	1
Iron	5600		50	17	ug/L		08/08/16 18:02	08/11/16 00:23	1
Lead	4.2	J	10	3.9	ug/L		08/08/16 18:02	08/11/16 00:23	1
Magnesium	61000		500	33	ug/L		08/08/16 18:02	08/11/16 00:23	1
Manganese	1100		10	1.0	ug/L		08/08/16 18:02	08/11/16 00:23	1
Nickel	11	J	40	2.1	ug/L		08/08/16 18:02	08/11/16 00:23	1
Potassium	1200		1000	17	ug/L		08/08/16 18:02	08/11/16 00:23	1
Selenium	20	U	20	9.9	ug/L		08/08/16 18:02	08/11/16 00:23	1
Silver	10	U	10	0.60	ug/L		08/08/16 18:02	08/11/16 00:23	1
Sodium	110000		10000	4800	ug/L		08/08/16 18:02	08/18/16 01:09	10
Thallium	25	U	25	6.0	ug/L		08/08/16 18:02	08/11/16 00:23	1
Zinc	17	J	20	7.0	ug/L		08/08/16 18:02	08/11/16 00:23	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.080	ug/L		08/09/16 13:30	08/10/16 18:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	600		5.0	5.0	mg/L			08/16/16 20:53	1
Bicarbonate Alkalinity as CaCO3	600		5.0	5.0	mg/L			08/16/16 20:53	1
Ammonia	0.25	U	0.25	0.10	mg/L			08/16/16 10:40	1
Phosphorus	0.079	J	0.10	0.041	mg/L		08/17/16 09:14	08/18/16 13:40	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	980		10	10	mg/L			08/09/16 11:54	1
Sulfide	2.0		1.0	1.0	mg/L			08/11/16 09:15	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Client Sample ID: 1600780-FB-4

Date Collected: 08/05/16 13:30
Date Received: 08/06/16 09:44

Lab Sample ID: 680-128400-9

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	7.0	ug/L			08/16/16 16:26	1
Benzene	1.0	U	1.0	0.43	ug/L			08/16/16 16:26	1
Bromobenzene	1.0	U	1.0	0.50	ug/L			08/16/16 16:26	1
Bromochloromethane	1.0	U	1.0	0.45	ug/L			08/16/16 16:26	1
Bromodichloromethane	1.0	U	1.0	0.44	ug/L			08/16/16 16:26	1
Bromoform	1.0	U	1.0	0.43	ug/L			08/16/16 16:26	1
Bromomethane	5.0	U	5.0	2.5	ug/L			08/16/16 16:26	1
2-Butanone (MEK)	10	U	10	3.4	ug/L			08/16/16 16:26	1
Carbon disulfide	2.0	U	2.0	1.0	ug/L			08/16/16 16:26	1
Carbon tetrachloride	1.0	U	1.0	0.33	ug/L			08/16/16 16:26	1
Chlorobenzene	1.0	U	1.0	0.26	ug/L			08/16/16 16:26	1
Chloroethane	5.0	U	5.0	2.5	ug/L			08/16/16 16:26	1
Chloroform	**0.71**	**J**	1.0	0.50	ug/L			08/16/16 16:26	1
Chloromethane	1.0	U	1.0	0.40	ug/L			08/16/16 16:26	1
2-Chlorotoluene	1.0	U	1.0	0.27	ug/L			08/16/16 16:26	1
4-Chlorotoluene	1.0	U	1.0	0.45	ug/L			08/16/16 16:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.41	ug/L			08/16/16 16:26	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.40	ug/L			08/16/16 16:26	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			08/16/16 16:26	1
Dibromomethane	1.0	U	1.0	0.35	ug/L			08/16/16 16:26	1
Dichlorodifluoromethane	1.0	U	1.0	0.60	ug/L			08/16/16 16:26	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			08/16/16 16:26	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			08/16/16 16:26	1
1,1-Dichloroethene	1.0	U	1.0	0.36	ug/L			08/16/16 16:26	1
1,2-Dichloroethene, Total	2.0	U	2.0	0.37	ug/L			08/16/16 16:26	1
1,2-Dichloropropane	1.0	U	1.0	0.67	ug/L			08/16/16 16:26	1
1,3-Dichloropropane	1.0	U	1.0	0.34	ug/L			08/16/16 16:26	1
2,2-Dichloropropane	1.0	U	1.0	0.37	ug/L			08/16/16 16:26	1
1,1-Dichloropropene	1.0	U	1.0	0.34	ug/L			08/16/16 16:26	1
Ethylbenzene	1.0	U	1.0	0.33	ug/L			08/16/16 16:26	1
2-Hexanone	10	U	10	2.0	ug/L			08/16/16 16:26	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			08/16/16 16:26	1
Methylene Chloride	5.0	U	5.0	2.5	ug/L			08/16/16 16:26	1
4-Methyl-2-pentanone	10	U	10	2.1	ug/L			08/16/16 16:26	1
Methyl tert-butyl ether	10	U	10	0.30	ug/L			08/16/16 16:26	1
m-Xylene & p-Xylene	1.0	U	1.0	0.35	ug/L			08/16/16 16:26	1
n-Butylbenzene	1.0	U	1.0	0.47	ug/L			08/16/16 16:26	1
N-Propylbenzene	1.0	U	1.0	0.38	ug/L			08/16/16 16:26	1
o-Xylene	1.0	U	1.0	0.23	ug/L			08/16/16 16:26	1
p-Isopropyltoluene	1.0	U	1.0	0.48	ug/L			08/16/16 16:26	1
sec-Butylbenzene	1.0	U	1.0	0.42	ug/L			08/16/16 16:26	1
Styrene	1.0	U	1.0	0.27	ug/L			08/16/16 16:26	1
tert-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/16/16 16:26	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/16/16 16:26	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.62	ug/L			08/16/16 16:26	1
Tetrachloroethene	1.0	U	1.0	0.74	ug/L			08/16/16 16:26	1
Toluene	1.0	U	1.0	0.48	ug/L			08/16/16 16:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.37	ug/L			08/16/16 16:26	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.42	ug/L			08/16/16 16:26	1

Client Sample ID: 1600780-FB-4

Lab Sample ID: 680-128400-9

Date Collected: 08/05/16 13:30

Matrix: Water

Date Received: 08/06/16 09:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	5.0	U	5.0	2.5	ug/L			08/16/16 16:26	1
1,1,1-Trichloroethane	1.0	U	1.0	0.37	ug/L			08/16/16 16:26	1
1,1,2-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/16/16 16:26	1
Trichloroethene	1.0	U	1.0	0.48	ug/L			08/16/16 16:26	1
Trichlorofluoromethane	1.0	U	1.0	0.42	ug/L			08/16/16 16:26	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.47	ug/L			08/16/16 16:26	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.31	ug/L			08/16/16 16:26	1
Vinyl acetate	2.0	U	2.0	0.81	ug/L			08/16/16 16:26	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			08/16/16 16:26	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			08/16/16 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*08/16/16 16:26*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 122*		*08/16/16 16:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*73 - 131*		*08/16/16 16:26*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/16/16 16:26*	*1*

Client Sample ID: 1600780-MW-24

Lab Sample ID: 680-128400-10

Date Collected: 08/05/16 13:40

Matrix: Water

Date Received: 08/06/16 09:44

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1000	U	1000	700	ug/L			08/16/16 18:41	100
Benzene	**8600**		100	43	ug/L			08/16/16 18:41	100
Bromobenzene	100	U	100	50	ug/L			08/16/16 18:41	100
Bromochloromethane	100	U	100	45	ug/L			08/16/16 18:41	100
Bromodichloromethane	100	U	100	44	ug/L			08/16/16 18:41	100
Bromoform	100	U	100	43	ug/L			08/16/16 18:41	100
Bromomethane	500	U	500	250	ug/L			08/16/16 18:41	100
2-Butanone (MEK)	1000	U	1000	340	ug/L			08/16/16 18:41	100
Carbon disulfide	200	U	200	100	ug/L			08/16/16 18:41	100
Carbon tetrachloride	100	U	100	33	ug/L			08/16/16 18:41	100
Chlorobenzene	100	U	100	26	ug/L			08/16/16 18:41	100
Chloroethane	500	U	500	250	ug/L			08/16/16 18:41	100
Chloroform	100	U	100	50	ug/L			08/16/16 18:41	100
Chloromethane	100	U	100	40	ug/L			08/16/16 18:41	100
2-Chlorotoluene	100	U	100	27	ug/L			08/16/16 18:41	100
4-Chlorotoluene	100	U	100	45	ug/L			08/16/16 18:41	100
cis-1,2-Dichloroethene	100	U	100	41	ug/L			08/16/16 18:41	100
cis-1,3-Dichloropropene	100	U	100	40	ug/L			08/16/16 18:41	100
Dibromochloromethane	100	U	100	32	ug/L			08/16/16 18:41	100
Dibromomethane	100	U	100	35	ug/L			08/16/16 18:41	100
Dichlorodifluoromethane	100	U	100	60	ug/L			08/16/16 18:41	100
1,1-Dichloroethane	100	U	100	38	ug/L			08/16/16 18:41	100
1,2-Dichloroethane	100	U	100	50	ug/L			08/16/16 18:41	100
1,1-Dichloroethene	100	U	100	36	ug/L			08/16/16 18:41	100
1,2-Dichloroethene, Total	200	U	200	37	ug/L			08/16/16 18:41	100
1,2-Dichloropropane	100	U	100	67	ug/L			08/16/16 18:41	100
1,3-Dichloropropane	100	U	100	34	ug/L			08/16/16 18:41	100

Client Sample ID: 1600780-MW-24

Lab Sample ID: 680-128400-10

Date Collected: 08/05/16 13:40

Matrix: Water

Date Received: 08/06/16 09:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	100	U	100	37	ug/L			08/16/16 18:41	100
1,1-Dichloropropene	100	U	100	34	ug/L			08/16/16 18:41	100
Ethylbenzene	**1200**		100	33	ug/L			08/16/16 18:41	100
2-Hexanone	1000	U	1000	200	ug/L			08/16/16 18:41	100
Isopropylbenzene	100	U	100	35	ug/L			08/16/16 18:41	100
Methylene Chloride	500	U	500	250	ug/L			08/16/16 18:41	100
4-Methyl-2-pentanone	1000	U	1000	210	ug/L			08/16/16 18:41	100
Methyl tert-butyl ether	1000	U	1000	30	ug/L			08/16/16 18:41	100
m-Xylene & p-Xylene	**6100**		100	35	ug/L			08/16/16 18:41	100
n-Butylbenzene	100	U	100	47	ug/L			08/16/16 18:41	100
N-Propylbenzene	**100**		100	38	ug/L			08/16/16 18:41	100
o-Xylene	**2000**		100	23	ug/L			08/16/16 18:41	100
p-Isopropyltoluene	100	U	100	48	ug/L			08/16/16 18:41	100
sec-Butylbenzene	100	U	100	42	ug/L			08/16/16 18:41	100
Styrene	100	U	100	27	ug/L			08/16/16 18:41	100
tert-Butylbenzene	100	U	100	45	ug/L			08/16/16 18:41	100
1,1,1,2-Tetrachloroethane	100	U	100	37	ug/L			08/16/16 18:41	100
1,1,2,2-Tetrachloroethane	100	U	100	62	ug/L			08/16/16 18:41	100
Tetrachloroethene	100	U	100	74	ug/L			08/16/16 18:41	100
Toluene	**3500**		100	48	ug/L			08/16/16 18:41	100
trans-1,2-Dichloroethene	100	U	100	37	ug/L			08/16/16 18:41	100
trans-1,3-Dichloropropene	100	U	100	42	ug/L			08/16/16 18:41	100
1,2,3-Trichlorobenzene	500	U	500	250	ug/L			08/16/16 18:41	100
1,1,1-Trichloroethane	100	U	100	37	ug/L			08/16/16 18:41	100
1,1,2-Trichloroethane	100	U	100	33	ug/L			08/16/16 18:41	100
Trichloroethene	100	U	100	48	ug/L			08/16/16 18:41	100
Trichlorofluoromethane	100	U	100	42	ug/L			08/16/16 18:41	100
1,2,4-Trimethylbenzene	**1300**		100	47	ug/L			08/16/16 18:41	100
1,3,5-Trimethylbenzene	**330**		100	31	ug/L			08/16/16 18:41	100
Vinyl acetate	200	U	200	81	ug/L			08/16/16 18:41	100
Vinyl chloride	100	U	100	50	ug/L			08/16/16 18:41	100
Xylenes, Total	**8100**		100	23	ug/L			08/16/16 18:41	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*08/16/16 18:41*	*100*
Dibromofluoromethane (Surr)	*96*		*80 - 122*		*08/16/16 18:41*	*100*
1,2-Dichloroethane-d4 (Surr)	*98*		*73 - 131*		*08/16/16 18:41*	*100*
Toluene-d8 (Surr)	*99*		*80 - 120*		*08/16/16 18:41*	*100*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 21:22	10
Acenaphthylene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 21:22	10
Acetophenone	9.6	U	9.6	2.9	ug/L		08/09/16 15:34	08/10/16 21:22	10
Anthracene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 21:22	10
Atrazine	38	U	38	19	ug/L		08/09/16 15:34	08/10/16 21:22	10
Benzaldehyde	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 21:22	10
Benzo[a]anthracene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 21:22	10
Benzo[a]pyrene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 21:22	10
Benzo[b]fluoranthene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 21:22	10

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Client Sample ID: 1600780-MW-24
Date Collected: 08/05/16 13:40
Date Received: 08/06/16 09:44

Lab Sample ID: 680-128400-10
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 21:22	10
Benzo[k]fluoranthene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 21:22	10
1,1'-Biphenyl	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 21:22	10
Bis(2-chloroethoxy)methane	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 21:22	10
Bis(2-chloroethyl)ether	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 21:22	10
Bis(2-ethylhexyl) phthalate	48	U	48	19	ug/L		08/09/16 15:34	08/10/16 21:22	10
4-Bromophenyl phenyl ether	9.6	U	9.6	1.2	ug/L		08/09/16 15:34	08/10/16 21:22	10
Butyl benzyl phthalate	9.6	U	9.6	1.2	ug/L		08/09/16 15:34	08/10/16 21:22	10
Caprolactam	9.6	U	9.6	1.2	ug/L		08/09/16 15:34	08/10/16 21:22	10
Carbazole	19	U	19	0.96	ug/L		08/09/16 15:34	08/10/16 21:22	10
4-Chloroaniline	38	U	38	19	ug/L		08/09/16 15:34	08/10/16 21:22	10
4-Chloro-3-methylphenol	9.6	U	9.6	1.2	ug/L		08/09/16 15:34	08/10/16 21:22	10
2-Chloronaphthalene	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 21:22	10
2-Chlorophenol	9.6	U	9.6	1.2	ug/L		08/09/16 15:34	08/10/16 21:22	10
4-Chlorophenyl phenyl ether	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 21:22	10
Chrysene	1.9	U	1.9	0.43	ug/L		08/09/16 15:34	08/10/16 21:22	10
Dibenz(a,h)anthracene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 21:22	10
Dibenzofuran	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 21:22	10
3,3'-Dichlorobenzidine	190	U	190	19	ug/L		08/09/16 15:34	08/10/16 21:22	10
2,4-Dichlorophenol	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 21:22	10
Diethyl phthalate	9.6	U	9.6	1.1	ug/L		08/09/16 15:34	08/10/16 21:22	10
2,4-Dimethylphenol	**130**		19	6.6	ug/L		08/09/16 15:34	08/10/16 21:22	10
Dimethyl phthalate	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 21:22	10
Di-n-butyl phthalate	9.6	U	9.6	3.7	ug/L		08/09/16 15:34	08/10/16 21:22	10
4,6-Dinitro-2-methylphenol	48	U	48	9.6	ug/L		08/09/16 15:34	08/10/16 21:22	10
2,4-Dinitrophenol	96	U	96	11	ug/L		08/09/16 15:34	08/10/16 21:22	10
2,4-Dinitrotoluene	9.6	U	9.6	1.2	ug/L		08/09/16 15:34	08/10/16 21:22	10
2,6-Dinitrotoluene	9.6	U	9.6	1.2	ug/L		08/09/16 15:34	08/10/16 21:22	10
Di-n-octyl phthalate	9.6	U	9.6	1.6	ug/L		08/09/16 15:34	08/10/16 21:22	10
Fluoranthene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 21:22	10
Fluorene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 21:22	10
Hexachlorobenzene	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 21:22	10
Hexachlorobutadiene	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 21:22	10
Hexachlorocyclopentadiene	19	U	19	4.8	ug/L		08/09/16 15:34	08/10/16 21:22	10
Hexachloroethane	9.6	U	9.6	4.8	ug/L		08/09/16 15:34	08/10/16 21:22	10
Indeno[1,2,3-cd]pyrene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 21:22	10
Isophorone	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 21:22	10
2-Methylnaphthalene	**83**		1.9	0.96	ug/L		08/09/16 15:34	08/10/16 21:22	10
2-Methylphenol	**150**		19	7.1	ug/L		08/09/16 15:34	08/10/16 21:22	10
2-Nitroaniline	9.6	U	9.6	1.5	ug/L		08/09/16 15:34	08/10/16 21:22	10
3-Nitroaniline	48	U	48	1.5	ug/L		08/09/16 15:34	08/10/16 21:22	10
4-Nitroaniline	48	U	48	4.8	ug/L		08/09/16 15:34	08/10/16 21:22	10
Nitrobenzene	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 21:22	10
2-Nitrophenol	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 21:22	10
4-Nitrophenol	77	U	77	38	ug/L		08/09/16 15:34	08/10/16 21:22	10
N-Nitrosodi-n-propylamine	9.6	U	9.6	1.2	ug/L		08/09/16 15:34	08/10/16 21:22	10
N-Nitrosodiphenylamine	9.6	U	9.6	3.6	ug/L		08/09/16 15:34	08/10/16 21:22	10
2,2'-oxybis[1-chloropropane]	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 21:22	10
Pentachlorophenol	48	U	48	3.8	ug/L		08/09/16 15:34	08/10/16 21:22	10

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Client Sample ID: 1600780-MW-24

Date Collected: 08/05/16 13:40
Date Received: 08/06/16 09:44

Lab Sample ID: 680-128400-10

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 21:22	10
Phenol	**160**		9.6	1.2	ug/L		08/09/16 15:34	08/10/16 21:22	10
Pyrene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 21:22	10
2,4,5-Trichlorophenol	9.6	U	9.6	1.2	ug/L		08/09/16 15:34	08/10/16 21:22	10
2,4,6-Trichlorophenol	9.6	U	9.6	1.6	ug/L		08/09/16 15:34	08/10/16 21:22	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*0*	*D*	*31 - 107*	*08/09/16 15:34*	*08/10/16 21:22*	*10*
2-Fluorophenol	*0*	*D*	*18 - 112*	*08/09/16 15:34*	*08/10/16 21:22*	*10*
Nitrobenzene-d5 (Surr)	*0*	*D*	*37 - 103*	*08/09/16 15:34*	*08/10/16 21:22*	*10*
Phenol-d5 (Surr)	*0*	*D*	*20 - 113*	*08/09/16 15:34*	*08/10/16 21:22*	*10*
Terphenyl-d14 (Surr)	*0*	*D*	*22 - 121*	*08/09/16 15:34*	*08/10/16 21:22*	*10*
2,4,6-Tribromophenol (Surr)	*0*	*D*	*39 - 133*	*08/09/16 15:34*	*08/10/16 21:22*	*10*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	**330**		190	63	ug/L		08/09/16 15:34	08/12/16 15:22	100
Naphthalene	**300**		19	9.6	ug/L		08/09/16 15:34	08/12/16 15:22	100

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.050	U	0.050	0.023	mg/L			08/06/16 18:45	1
Sulfate	**7.7**		1.0	0.40	mg/L			08/18/16 00:28	1
Chloride	**110**		2.5	1.0	mg/L			08/18/16 14:21	5
Bromide	**0.34**	**J**	0.50	0.20	mg/L			08/18/16 00:28	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	20	U	20	5.3	ug/L		08/08/16 18:02	08/11/16 00:28	1
Arsenic	**23**		20	6.2	ug/L		08/08/16 18:02	08/11/16 00:28	1
Beryllium	4.0	U	4.0	0.10	ug/L		08/08/16 18:02	08/11/16 00:28	1
Cadmium	5.0	U	5.0	1.0	ug/L		08/08/16 18:02	08/11/16 00:28	1
Calcium	**230000**	**B**	500	25	ug/L		08/08/16 18:02	08/11/16 00:28	1
Chromium	10	U	10	1.6	ug/L		08/08/16 18:02	08/11/16 00:28	1
Copper	20	U	20	1.8	ug/L		08/08/16 18:02	08/11/16 00:28	1
Iron	**23000**		50	17	ug/L		08/08/16 18:02	08/11/16 00:28	1
Lead	10	U	10	3.9	ug/L		08/08/16 18:02	08/11/16 00:28	1
Magnesium	**47000**		500	33	ug/L		08/08/16 18:02	08/11/16 00:28	1
Manganese	**1000**		10	1.0	ug/L		08/08/16 18:02	08/11/16 00:28	1
Nickel	**15**	**J**	40	2.1	ug/L		08/08/16 18:02	08/11/16 00:28	1
Potassium	**1500**		1000	17	ug/L		08/08/16 18:02	08/11/16 00:28	1
Selenium	20	U	20	9.9	ug/L		08/08/16 18:02	08/11/16 00:28	1
Silver	10	U	10	0.60	ug/L		08/08/16 18:02	08/11/16 00:28	1
Sodium	**72000**		1000	480	ug/L		08/08/16 18:02	08/11/16 00:28	1
Thallium	25	U	25	6.0	ug/L		08/08/16 18:02	08/11/16 00:28	1
Zinc	**8.0**	**J**	20	7.0	ug/L		08/08/16 18:02	08/11/16 00:28	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.080	ug/L		08/09/16 13:30	08/10/16 18:21	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Client Sample ID: 1600780-MW-24

Lab Sample ID: 680-128400-10

Date Collected: 08/05/16 13:40
Matrix: Water
Date Received: 08/06/16 09:44

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**650**		5.0	5.0	mg/L			08/16/16 21:05	1
Bicarbonate Alkalinity as CaCO3	**650**		5.0	5.0	mg/L			08/16/16 21:05	1
Ammonia	0.25	U	0.25	0.10	mg/L			08/16/16 10:49	1
Phosphorus	**0.082**	**J**	0.10	0.041	mg/L		08/17/16 09:14	08/18/16 13:38	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**1000**		10	10	mg/L			08/09/16 11:54	1
Sulfide	1.0	U	1.0	1.0	mg/L			08/11/16 09:15	1

Client Sample ID: 1600780-MW-15

Lab Sample ID: 680-128400-11

Date Collected: 08/05/16 13:40
Matrix: Water
Date Received: 08/06/16 09:44

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	250	U	250	180	ug/L			08/16/16 19:03	25
Benzene	**4800**		50	22	ug/L			08/17/16 23:35	50
Bromobenzene	25	U	25	13	ug/L			08/16/16 19:03	25
Bromochloromethane	25	U	25	11	ug/L			08/16/16 19:03	25
Bromodichloromethane	25	U	25	11	ug/L			08/16/16 19:03	25
Bromoform	25	U	25	11	ug/L			08/16/16 19:03	25
Bromomethane	130	U	130	63	ug/L			08/16/16 19:03	25
2-Butanone (MEK)	250	U	250	85	ug/L			08/16/16 19:03	25
Carbon disulfide	50	U	50	25	ug/L			08/16/16 19:03	25
Carbon tetrachloride	25	U	25	8.3	ug/L			08/16/16 19:03	25
Chlorobenzene	25	U	25	6.5	ug/L			08/16/16 19:03	25
Chloroethane	130	U	130	63	ug/L			08/16/16 19:03	25
Chloroform	25	U	25	13	ug/L			08/16/16 19:03	25
Chloromethane	25	U	25	10	ug/L			08/16/16 19:03	25
2-Chlorotoluene	25	U	25	6.8	ug/L			08/16/16 19:03	25
4-Chlorotoluene	25	U	25	11	ug/L			08/16/16 19:03	25
cis-1,2-Dichloroethene	25	U	25	10	ug/L			08/16/16 19:03	25
cis-1,3-Dichloropropene	25	U	25	10	ug/L			08/16/16 19:03	25
Dibromochloromethane	25	U	25	8.0	ug/L			08/16/16 19:03	25
Dibromomethane	25	U	25	8.8	ug/L			08/16/16 19:03	25
Dichlorodifluoromethane	25	U	25	15	ug/L			08/16/16 19:03	25
1,1-Dichloroethane	25	U	25	9.5	ug/L			08/16/16 19:03	25
1,2-Dichloroethane	25	U	25	13	ug/L			08/16/16 19:03	25
1,1-Dichloroethene	25	U	25	9.0	ug/L			08/16/16 19:03	25
1,2-Dichloroethene, Total	50	U	50	9.3	ug/L			08/16/16 19:03	25
1,2-Dichloropropane	25	U	25	17	ug/L			08/16/16 19:03	25
1,3-Dichloropropane	25	U	25	8.5	ug/L			08/16/16 19:03	25
2,2-Dichloropropane	25	U	25	9.3	ug/L			08/16/16 19:03	25
1,1-Dichloropropene	25	U	25	8.5	ug/L			08/16/16 19:03	25
Ethylbenzene	**910**		25	8.3	ug/L			08/16/16 19:03	25
2-Hexanone	250	U	250	50	ug/L			08/16/16 19:03	25
Isopropylbenzene	**26**		25	8.8	ug/L			08/16/16 19:03	25
Methylene Chloride	130	U	130	63	ug/L			08/16/16 19:03	25
4-Methyl-2-pentanone	250	U	250	53	ug/L			08/16/16 19:03	25
Methyl tert-butyl ether	250	U	250	7.5	ug/L			08/16/16 19:03	25

Client Sample ID: 1600780-MW-15

Lab Sample ID: 680-128400-11

Date Collected: 08/05/16 13:40

Matrix: Water

Date Received: 08/06/16 09:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	**600**		25	8.8	ug/L			08/16/16 19:03	25
n-Butylbenzene	25	U	25	12	ug/L			08/16/16 19:03	25
N-Propylbenzene	**64**		25	9.5	ug/L			08/16/16 19:03	25
o-Xylene	**20**	**J**	25	5.8	ug/L			08/16/16 19:03	25
p-Isopropyltoluene	25	U	25	12	ug/L			08/16/16 19:03	25
sec-Butylbenzene	25	U	25	11	ug/L			08/16/16 19:03	25
Styrene	25	U	25	6.8	ug/L			08/16/16 19:03	25
tert-Butylbenzene	25	U	25	11	ug/L			08/16/16 19:03	25
1,1,1,2-Tetrachloroethane	25	U	25	9.3	ug/L			08/16/16 19:03	25
1,1,2,2-Tetrachloroethane	25	U	25	16	ug/L			08/16/16 19:03	25
Tetrachloroethene	25	U	25	19	ug/L			08/16/16 19:03	25
Toluene	**210**		25	12	ug/L			08/16/16 19:03	25
trans-1,2-Dichloroethene	25	U	25	9.3	ug/L			08/16/16 19:03	25
trans-1,3-Dichloropropene	25	U	25	11	ug/L			08/16/16 19:03	25
1,2,3-Trichlorobenzene	130	U	130	63	ug/L			08/16/16 19:03	25
1,1,1-Trichloroethane	25	U	25	9.3	ug/L			08/16/16 19:03	25
1,1,2-Trichloroethane	25	U	25	8.3	ug/L			08/16/16 19:03	25
Trichloroethene	25	U	25	12	ug/L			08/16/16 19:03	25
Trichlorofluoromethane	25	U	25	11	ug/L			08/16/16 19:03	25
1,2,4-Trimethylbenzene	**240**		25	12	ug/L			08/16/16 19:03	25
1,3,5-Trimethylbenzene	**110**		25	7.8	ug/L			08/16/16 19:03	25
Vinyl acetate	50	U	50	20	ug/L			08/16/16 19:03	25
Vinyl chloride	25	U	25	13	ug/L			08/16/16 19:03	25
Xylenes, Total	**620**		25	5.8	ug/L			08/16/16 19:03	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*08/16/16 19:03*	*25*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*08/17/16 23:35*	*50*
Dibromofluoromethane (Surr)	*99*		*80 - 122*		*08/16/16 19:03*	*25*
Dibromofluoromethane (Surr)	*106*		*80 - 122*		*08/17/16 23:35*	*50*
1,2-Dichloroethane-d4 (Surr)	*105*		*73 - 131*		*08/16/16 19:03*	*25*
1,2-Dichloroethane-d4 (Surr)	*104*		*73 - 131*		*08/17/16 23:35*	*50*
Toluene-d8 (Surr)	*94*		*80 - 120*		*08/16/16 19:03*	*25*
Toluene-d8 (Surr)	*103*		*80 - 120*		*08/17/16 23:35*	*50*

Client Sample ID: 1600780-MW-13

Lab Sample ID: 680-128400-12

Date Collected: 08/05/16 14:47

Matrix: Water

Date Received: 08/06/16 09:44

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1000	U	1000	700	ug/L			08/16/16 19:26	100
Benzene	**5200**		100	43	ug/L			08/16/16 19:26	100
Bromobenzene	100	U	100	50	ug/L			08/16/16 19:26	100
Bromochloromethane	100	U	100	45	ug/L			08/16/16 19:26	100
Bromodichloromethane	100	U	100	44	ug/L			08/16/16 19:26	100
Bromoform	100	U	100	43	ug/L			08/16/16 19:26	100
Bromomethane	500	U	500	250	ug/L			08/16/16 19:26	100
2-Butanone (MEK)	1000	U	1000	340	ug/L			08/16/16 19:26	100
Carbon disulfide	200	U	200	100	ug/L			08/16/16 19:26	100

Client Sample ID: 1600780-MW-13

Lab Sample ID: 680-128400-12

Date Collected: 08/05/16 14:47

Matrix: Water

Date Received: 08/06/16 09:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	100	U	100	33	ug/L			08/16/16 19:26	100
Chlorobenzene	100	U	100	26	ug/L			08/16/16 19:26	100
Chloroethane	500	U	500	250	ug/L			08/16/16 19:26	100
Chloroform	100	U	100	50	ug/L			08/16/16 19:26	100
Chloromethane	100	U	100	40	ug/L			08/16/16 19:26	100
2-Chlorotoluene	100	U	100	27	ug/L			08/16/16 19:26	100
4-Chlorotoluene	100	U	100	45	ug/L			08/16/16 19:26	100
cis-1,2-Dichloroethene	100	U	100	41	ug/L			08/16/16 19:26	100
cis-1,3-Dichloropropene	100	U	100	40	ug/L			08/16/16 19:26	100
Dibromochloromethane	100	U	100	32	ug/L			08/16/16 19:26	100
Dibromomethane	100	U	100	35	ug/L			08/16/16 19:26	100
Dichlorodifluoromethane	100	U	100	60	ug/L			08/16/16 19:26	100
1,1-Dichloroethane	100	U	100	38	ug/L			08/16/16 19:26	100
1,2-Dichloroethane	100	U	100	50	ug/L			08/16/16 19:26	100
1,1-Dichloroethene	100	U	100	36	ug/L			08/16/16 19:26	100
1,2-Dichloroethene, Total	200	U	200	37	ug/L			08/16/16 19:26	100
1,2-Dichloropropane	100	U	100	67	ug/L			08/16/16 19:26	100
1,3-Dichloropropane	100	U	100	34	ug/L			08/16/16 19:26	100
2,2-Dichloropropane	100	U	100	37	ug/L			08/16/16 19:26	100
1,1-Dichloropropene	100	U	100	34	ug/L			08/16/16 19:26	100
Ethylbenzene	**4000**		100	33	ug/L			08/16/16 19:26	100
2-Hexanone	1000	U	1000	200	ug/L			08/16/16 19:26	100
Isopropylbenzene	**150**		100	35	ug/L			08/16/16 19:26	100
Methylene Chloride	500	U	500	250	ug/L			08/16/16 19:26	100
4-Methyl-2-pentanone	1000	U	1000	210	ug/L			08/16/16 19:26	100
Methyl tert-butyl ether	**68**	**J**	1000	30	ug/L			08/16/16 19:26	100
m-Xylene & p-Xylene	**12000**		100	35	ug/L			08/16/16 19:26	100
n-Butylbenzene	100	U	100	47	ug/L			08/16/16 19:26	100
N-Propylbenzene	**520**		100	38	ug/L			08/16/16 19:26	100
o-Xylene	**4900**		100	23	ug/L			08/16/16 19:26	100
p-Isopropyltoluene	100	U	100	48	ug/L			08/16/16 19:26	100
sec-Butylbenzene	100	U	100	42	ug/L			08/16/16 19:26	100
Styrene	100	U	100	27	ug/L			08/16/16 19:26	100
tert-Butylbenzene	100	U	100	45	ug/L			08/16/16 19:26	100
1,1,1,2-Tetrachloroethane	100	U	100	37	ug/L			08/16/16 19:26	100
1,1,2,2-Tetrachloroethane	100	U	100	62	ug/L			08/16/16 19:26	100
Tetrachloroethene	100	U	100	74	ug/L			08/16/16 19:26	100
Toluene	**11000**		100	48	ug/L			08/16/16 19:26	100
trans-1,2-Dichloroethene	100	U	100	37	ug/L			08/16/16 19:26	100
trans-1,3-Dichloropropene	100	U	100	42	ug/L			08/16/16 19:26	100
1,2,3-Trichlorobenzene	500	U	500	250	ug/L			08/16/16 19:26	100
1,1,1-Trichloroethane	100	U	100	37	ug/L			08/16/16 19:26	100
1,1,2-Trichloroethane	100	U	100	33	ug/L			08/16/16 19:26	100
Trichloroethene	100	U	100	48	ug/L			08/16/16 19:26	100
Trichlorofluoromethane	100	U	100	42	ug/L			08/16/16 19:26	100
1,2,4-Trimethylbenzene	**3900**		100	47	ug/L			08/16/16 19:26	100
1,3,5-Trimethylbenzene	**1000**		100	31	ug/L			08/16/16 19:26	100
Vinyl acetate	200	U	200	81	ug/L			08/16/16 19:26	100
Vinyl chloride	100	U	100	50	ug/L			08/16/16 19:26	100

Client Sample ID: 1600780-MW-13

Lab Sample ID: 680-128400-12

Date Collected: 08/05/16 14:47

Matrix: Water

Date Received: 08/06/16 09:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	**17000**		100	23	ug/L			08/16/16 19:26	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*08/16/16 19:26*	*100*
Dibromofluoromethane (Surr)	*97*		*80 - 122*		*08/16/16 19:26*	*100*
1,2-Dichloroethane-d4 (Surr)	*101*		*73 - 131*		*08/16/16 19:26*	*100*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/16/16 19:26*	*100*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 21:48	10
Acenaphthylene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 21:48	10
Acetophenone	9.6	U	9.6	2.9	ug/L		08/09/16 15:34	08/10/16 21:48	10
Anthracene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 21:48	10
Atrazine	38	U	38	19	ug/L		08/09/16 15:34	08/10/16 21:48	10
Benzaldehyde	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 21:48	10
Benzo[a]anthracene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 21:48	10
Benzo[a]pyrene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 21:48	10
Benzo[b]fluoranthene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 21:48	10
Benzo[g,h,i]perylene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 21:48	10
Benzo[k]fluoranthene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 21:48	10
1,1'-Biphenyl	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 21:48	10
Bis(2-chloroethoxy)methane	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 21:48	10
Bis(2-chloroethyl)ether	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 21:48	10
Bis(2-ethylhexyl) phthalate	48	U	48	19	ug/L		08/09/16 15:34	08/10/16 21:48	10
4-Bromophenyl phenyl ether	9.6	U	9.6	1.1	ug/L		08/09/16 15:34	08/10/16 21:48	10
Butyl benzyl phthalate	9.6	U	9.6	1.1	ug/L		08/09/16 15:34	08/10/16 21:48	10
Caprolactam	9.6	U	9.6	1.2	ug/L		08/09/16 15:34	08/10/16 21:48	10
Carbazole	19	U	19	0.96	ug/L		08/09/16 15:34	08/10/16 21:48	10
4-Chloroaniline	38	U	38	19	ug/L		08/09/16 15:34	08/10/16 21:48	10
4-Chloro-3-methylphenol	9.6	U	9.6	1.1	ug/L		08/09/16 15:34	08/10/16 21:48	10
2-Chloronaphthalene	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 21:48	10
2-Chlorophenol	9.6	U	9.6	1.1	ug/L		08/09/16 15:34	08/10/16 21:48	10
4-Chlorophenyl phenyl ether	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 21:48	10
Chrysene	1.9	U	1.9	0.43	ug/L		08/09/16 15:34	08/10/16 21:48	10
Dibenz(a,h)anthracene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 21:48	10
Dibenzofuran	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 21:48	10
3,3'-Dichlorobenzidine	190	U	190	19	ug/L		08/09/16 15:34	08/10/16 21:48	10
2,4-Dichlorophenol	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 21:48	10
Diethyl phthalate	9.6	U	9.6	1.1	ug/L		08/09/16 15:34	08/10/16 21:48	10
2,4-Dimethylphenol	**42**		19	6.6	ug/L		08/09/16 15:34	08/10/16 21:48	10
Dimethyl phthalate	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 21:48	10
Di-n-butyl phthalate	9.6	U	9.6	3.7	ug/L		08/09/16 15:34	08/10/16 21:48	10
4,6-Dinitro-2-methylphenol	48	U	48	9.6	ug/L		08/09/16 15:34	08/10/16 21:48	10
2,4-Dinitrophenol	96	U	96	11	ug/L		08/09/16 15:34	08/10/16 21:48	10
2,4-Dinitrotoluene	9.6	U	9.6	1.1	ug/L		08/09/16 15:34	08/10/16 21:48	10
2,6-Dinitrotoluene	9.6	U	9.6	1.2	ug/L		08/09/16 15:34	08/10/16 21:48	10
Di-n-octyl phthalate	9.6	U	9.6	1.6	ug/L		08/09/16 15:34	08/10/16 21:48	10
Fluoranthene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 21:48	10
Fluorene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 21:48	10

Client Sample ID: 1600780-MW-13

Date Collected: 08/05/16 14:47
Date Received: 08/06/16 09:44

Lab Sample ID: 680-128400-12

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 21:48	10
Hexachlorobutadiene	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 21:48	10
Hexachlorocyclopentadiene	19	U	19	4.8	ug/L		08/09/16 15:34	08/10/16 21:48	10
Hexachloroethane	9.6	U	9.6	4.8	ug/L		08/09/16 15:34	08/10/16 21:48	10
Indeno[1,2,3-cd]pyrene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 21:48	10
Isophorone	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 21:48	10
2-Methylnaphthalene	**110**		1.9	0.96	ug/L		08/09/16 15:34	08/10/16 21:48	10
2-Methylphenol	**21**		19	7.1	ug/L		08/09/16 15:34	08/10/16 21:48	10
3 & 4 Methylphenol	**57**		19	6.3	ug/L		08/09/16 15:34	08/10/16 21:48	10
2-Nitroaniline	9.6	U	9.6	1.5	ug/L		08/09/16 15:34	08/10/16 21:48	10
3-Nitroaniline	48	U	48	1.5	ug/L		08/09/16 15:34	08/10/16 21:48	10
4-Nitroaniline	48	U	48	4.8	ug/L		08/09/16 15:34	08/10/16 21:48	10
Nitrobenzene	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 21:48	10
2-Nitrophenol	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 21:48	10
4-Nitrophenol	77	U	77	38	ug/L		08/09/16 15:34	08/10/16 21:48	10
N-Nitrosodi-n-propylamine	9.6	U	9.6	1.2	ug/L		08/09/16 15:34	08/10/16 21:48	10
N-Nitrosodiphenylamine	9.6	U	9.6	3.5	ug/L		08/09/16 15:34	08/10/16 21:48	10
2,2'-oxybis[1-chloropropane]	9.6	U	9.6	0.96	ug/L		08/09/16 15:34	08/10/16 21:48	10
Pentachlorophenol	48	U	48	3.8	ug/L		08/09/16 15:34	08/10/16 21:48	10
Phenanthrene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 21:48	10
Phenol	9.6	U	9.6	1.2	ug/L		08/09/16 15:34	08/10/16 21:48	10
Pyrene	1.9	U	1.9	0.96	ug/L		08/09/16 15:34	08/10/16 21:48	10
2,4,5-Trichlorophenol	9.6	U	9.6	1.1	ug/L		08/09/16 15:34	08/10/16 21:48	10
2,4,6-Trichlorophenol	9.6	U	9.6	1.6	ug/L		08/09/16 15:34	08/10/16 21:48	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*0*	*D*	*31 - 107*	*08/09/16 15:34*	*08/10/16 21:48*	*10*
2-Fluorophenol	*0*	*D*	*18 - 112*	*08/09/16 15:34*	*08/10/16 21:48*	*10*
Nitrobenzene-d5 (Surr)	*0*	*D*	*37 - 103*	*08/09/16 15:34*	*08/10/16 21:48*	*10*
Phenol-d5 (Surr)	*0*	*D*	*20 - 113*	*08/09/16 15:34*	*08/10/16 21:48*	*10*
Terphenyl-d14 (Surr)	*0*	*D*	*22 - 121*	*08/09/16 15:34*	*08/10/16 21:48*	*10*
2,4,6-Tribromophenol (Surr)	*0*	*D*	*39 - 133*	*08/09/16 15:34*	*08/10/16 21:48*	*10*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**390**		19	9.6	ug/L		08/09/16 15:34	08/12/16 15:47	100

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.50	U	0.50	0.23	mg/L			08/06/16 19:01	10
Sulfate	**1.6**		1.0	0.40	mg/L			08/17/16 12:17	1
Chloride	**400**		13	5.0	mg/L			08/18/16 14:38	25
Bromide	**0.60**		0.50	0.20	mg/L			08/17/16 12:17	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	20	U	20	5.3	ug/L		08/08/16 18:02	08/11/16 00:32	1
Arsenic	**18**	**J**	20	6.2	ug/L		08/08/16 18:02	08/11/16 00:32	1
Beryllium	4.0	U	4.0	0.10	ug/L		08/08/16 18:02	08/11/16 00:32	1
Cadmium	5.0	U	5.0	1.0	ug/L		08/08/16 18:02	08/11/16 00:32	1

Client Sample ID: 1600780-MW-13 — Lab Sample ID: 680-128400-12

Date Collected: 08/05/16 14:47 — **Matrix: Water**
Date Received: 08/06/16 09:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**160000**	**B**	500	25	ug/L		08/08/16 18:02	08/11/16 00:32	1
Chromium	10	U	10	1.6	ug/L		08/08/16 18:02	08/11/16 00:32	1
Copper	**1.9**	**J**	20	1.8	ug/L		08/08/16 18:02	08/11/16 00:32	1
Iron	**12000**		50	17	ug/L		08/08/16 18:02	08/11/16 00:32	1
Lead	10	U	10	3.9	ug/L		08/08/16 18:02	08/11/16 00:32	1
Magnesium	**35000**		500	33	ug/L		08/08/16 18:02	08/11/16 00:32	1
Manganese	**670**		10	1.0	ug/L		08/08/16 18:02	08/11/16 00:32	1
Nickel	**4.4**	**J**	40	2.1	ug/L		08/08/16 18:02	08/11/16 00:32	1
Potassium	**4500**		1000	17	ug/L		08/08/16 18:02	08/11/16 00:32	1
Selenium	20	U	20	9.9	ug/L		08/08/16 18:02	08/11/16 00:32	1
Silver	10	U	10	0.60	ug/L		08/08/16 18:02	08/11/16 00:32	1
Sodium	**110000**		10000	4800	ug/L		08/08/16 18:02	08/18/16 01:14	10
Thallium	25	U	25	6.0	ug/L		08/08/16 18:02	08/11/16 00:32	1
Zinc	20	U	20	7.0	ug/L		08/08/16 18:02	08/11/16 00:32	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.080	ug/L		08/09/16 13:30	08/10/16 18:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**350**		5.0	5.0	mg/L			08/16/16 21:30	1
Bicarbonate Alkalinity as CaCO3	**350**		5.0	5.0	mg/L			08/16/16 21:30	1
Ammonia	**0.58**		0.25	0.10	mg/L			08/16/16 10:49	1
Phosphorus	**0.091**	**J**	0.10	0.041	mg/L		08/17/16 09:14	08/18/16 13:44	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**1200**		10	10	mg/L			08/09/16 11:54	1
Sulfide	1.0	U	1.0	1.0	mg/L			08/11/16 09:15	1

Client Sample ID: 1600780-MW-20 — Lab Sample ID: 680-128400-13

Date Collected: 08/05/16 15:20 — **Matrix: Water**
Date Received: 08/06/16 09:44

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.050	U	0.050	0.023	mg/L			08/06/16 19:50	1
Sulfate	1.0	U	1.0	0.40	mg/L			08/17/16 12:34	1
Chloride	**92**		2.0	0.80	mg/L			08/18/16 13:29	4
Bromide	**0.43**	**J**	0.50	0.20	mg/L			08/17/16 12:34	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	20	U	20	5.3	ug/L		08/08/16 18:02	08/11/16 00:36	1
Arsenic	**24**		20	6.2	ug/L		08/08/16 18:02	08/11/16 00:36	1
Beryllium	4.0	U	4.0	0.10	ug/L		08/08/16 18:02	08/11/16 00:36	1
Cadmium	5.0	U	5.0	1.0	ug/L		08/08/16 18:02	08/11/16 00:36	1
Calcium	**200000**	**B**	500	25	ug/L		08/08/16 18:02	08/11/16 00:36	1
Chromium	10	U	10	1.6	ug/L		08/08/16 18:02	08/11/16 00:36	1
Copper	20	U	20	1.8	ug/L		08/08/16 18:02	08/11/16 00:36	1
Iron	**27000**		50	17	ug/L		08/08/16 18:02	08/11/16 00:36	1

Client Sample ID: 1600780-MW-20

Lab Sample ID: 680-128400-13

Date Collected: 08/05/16 15:20

Matrix: Water

Date Received: 08/06/16 09:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	7.0	J	10	3.9	ug/L		08/08/16 18:02	08/11/16 00:36	1
Magnesium	47000		500	33	ug/L		08/08/16 18:02	08/11/16 00:36	1
Manganese	3100		10	1.0	ug/L		08/08/16 18:02	08/11/16 00:36	1
Nickel	15	J	40	2.1	ug/L		08/08/16 18:02	08/11/16 00:36	1
Potassium	1400		1000	17	ug/L		08/08/16 18:02	08/11/16 00:36	1
Selenium	20	U	20	9.9	ug/L		08/08/16 18:02	08/11/16 00:36	1
Silver	10	U	10	0.60	ug/L		08/08/16 18:02	08/11/16 00:36	1
Sodium	85000		1000	480	ug/L		08/08/16 18:02	08/11/16 00:36	1
Thallium	25	U	25	6.0	ug/L		08/08/16 18:02	08/11/16 00:36	1
Zinc	7.3	J	20	7.0	ug/L		08/08/16 18:02	08/11/16 00:36	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.080	ug/L		08/09/16 13:30	08/10/16 18:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	5.0	U	5.0	5.0	mg/L			08/16/16 21:34	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	5.0	mg/L			08/16/16 21:34	1
Ammonia	0.50		0.25	0.10	mg/L			08/16/16 10:49	1
Phosphorus	0.10	U	0.10	0.041	mg/L		08/16/16 09:35	08/17/16 11:14	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	880		10	10	mg/L			08/09/16 11:54	1
Sulfide	1.0	U	1.0	1.0	mg/L			08/11/16 09:15	1

Client Sample ID: 1600780-EB-1

Lab Sample ID: 680-128400-14

Date Collected: 08/05/16 15:46

Matrix: Water

Date Received: 08/06/16 09:44

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	7.0	ug/L			08/16/16 16:49	1
Benzene	1.0	U	1.0	0.43	ug/L			08/16/16 16:49	1
Bromobenzene	1.0	U	1.0	0.50	ug/L			08/16/16 16:49	1
Bromochloromethane	1.0	U	1.0	0.45	ug/L			08/16/16 16:49	1
Bromodichloromethane	1.0	U	1.0	0.44	ug/L			08/16/16 16:49	1
Bromoform	1.0	U	1.0	0.43	ug/L			08/16/16 16:49	1
Bromomethane	5.0	U	5.0	2.5	ug/L			08/16/16 16:49	1
2-Butanone (MEK)	10	U	10	3.4	ug/L			08/16/16 16:49	1
Carbon disulfide	2.0	U	2.0	1.0	ug/L			08/16/16 16:49	1
Carbon tetrachloride	1.0	U	1.0	0.33	ug/L			08/16/16 16:49	1
Chlorobenzene	1.0	U	1.0	0.26	ug/L			08/16/16 16:49	1
Chloroethane	5.0	U	5.0	2.5	ug/L			08/16/16 16:49	1
Chloroform	0.68	J	1.0	0.50	ug/L			08/16/16 16:49	1
Chloromethane	1.0	U	1.0	0.40	ug/L			08/16/16 16:49	1
2-Chlorotoluene	1.0	U	1.0	0.27	ug/L			08/16/16 16:49	1
4-Chlorotoluene	1.0	U	1.0	0.45	ug/L			08/16/16 16:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.41	ug/L			08/16/16 16:49	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.40	ug/L			08/16/16 16:49	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			08/16/16 16:49	1

Client Sample ID: 1600780-EB-1

Lab Sample ID: 680-128400-14

Date Collected: 08/05/16 15:46

Matrix: Water

Date Received: 08/06/16 09:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	1.0	U	1.0	0.35	ug/L			08/16/16 16:49	1
Dichlorodifluoromethane	1.0	U	1.0	0.60	ug/L			08/16/16 16:49	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			08/16/16 16:49	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			08/16/16 16:49	1
1,1-Dichloroethene	1.0	U	1.0	0.36	ug/L			08/16/16 16:49	1
1,2-Dichloroethene, Total	2.0	U	2.0	0.37	ug/L			08/16/16 16:49	1
1,2-Dichloropropane	1.0	U	1.0	0.67	ug/L			08/16/16 16:49	1
1,3-Dichloropropane	1.0	U	1.0	0.34	ug/L			08/16/16 16:49	1
2,2-Dichloropropane	1.0	U	1.0	0.37	ug/L			08/16/16 16:49	1
1,1-Dichloropropene	1.0	U	1.0	0.34	ug/L			08/16/16 16:49	1
Ethylbenzene	1.0	U	1.0	0.33	ug/L			08/16/16 16:49	1
2-Hexanone	10	U	10	2.0	ug/L			08/16/16 16:49	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			08/16/16 16:49	1
Methylene Chloride	5.0	U	5.0	2.5	ug/L			08/16/16 16:49	1
4-Methyl-2-pentanone	10	U	10	2.1	ug/L			08/16/16 16:49	1
Methyl tert-butyl ether	10	U	10	0.30	ug/L			08/16/16 16:49	1
m-Xylene & p-Xylene	1.0	U	1.0	0.35	ug/L			08/16/16 16:49	1
n-Butylbenzene	1.0	U	1.0	0.47	ug/L			08/16/16 16:49	1
N-Propylbenzene	1.0	U	1.0	0.38	ug/L			08/16/16 16:49	1
o-Xylene	1.0	U	1.0	0.23	ug/L			08/16/16 16:49	1
p-Isopropyltoluene	1.0	U	1.0	0.48	ug/L			08/16/16 16:49	1
sec-Butylbenzene	1.0	U	1.0	0.42	ug/L			08/16/16 16:49	1
Styrene	1.0	U	1.0	0.27	ug/L			08/16/16 16:49	1
tert-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/16/16 16:49	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/16/16 16:49	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.62	ug/L			08/16/16 16:49	1
Tetrachloroethene	1.0	U	1.0	0.74	ug/L			08/16/16 16:49	1
Toluene	1.0	U	1.0	0.48	ug/L			08/16/16 16:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.37	ug/L			08/16/16 16:49	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.42	ug/L			08/16/16 16:49	1
1,2,3-Trichlorobenzene	5.0	U	5.0	2.5	ug/L			08/16/16 16:49	1
1,1,1-Trichloroethane	1.0	U	1.0	0.37	ug/L			08/16/16 16:49	1
1,1,2-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/16/16 16:49	1
Trichloroethene	1.0	U	1.0	0.48	ug/L			08/16/16 16:49	1
Trichlorofluoromethane	1.0	U	1.0	0.42	ug/L			08/16/16 16:49	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.47	ug/L			08/16/16 16:49	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.31	ug/L			08/16/16 16:49	1
Vinyl acetate	2.0	U	2.0	0.81	ug/L			08/16/16 16:49	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			08/16/16 16:49	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			08/16/16 16:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/16/16 16:49*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 122*		*08/16/16 16:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*73 - 131*		*08/16/16 16:49*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/16/16 16:49*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.096	ug/L		08/09/16 15:34	08/12/16 16:12	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Client Sample ID: 1600780-EB-1

Date Collected: 08/05/16 15:46
Date Received: 08/06/16 09:44

Lab Sample ID: 680-128400-14

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	0.19	U	0.19	0.096	ug/L		08/09/16 15:34	08/12/16 16:12	1
Acetophenone	**0.47**	**J**	0.96	0.29	ug/L		08/09/16 15:34	08/12/16 16:12	1
Anthracene	0.19	U	0.19	0.096	ug/L		08/09/16 15:34	08/12/16 16:12	1
Atrazine	3.9	U	3.9	1.9	ug/L		08/09/16 15:34	08/12/16 16:12	1
Benzaldehyde	**0.77**	**J**	0.96	0.096	ug/L		08/09/16 15:34	08/12/16 16:12	1
Benzo[a]anthracene	0.19	U	0.19	0.096	ug/L		08/09/16 15:34	08/12/16 16:12	1
Benzo[a]pyrene	0.19	U	0.19	0.096	ug/L		08/09/16 15:34	08/12/16 16:12	1
Benzo[b]fluoranthene	0.19	U	0.19	0.096	ug/L		08/09/16 15:34	08/12/16 16:12	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.096	ug/L		08/09/16 15:34	08/12/16 16:12	1
Benzo[k]fluoranthene	0.19	U	0.19	0.096	ug/L		08/09/16 15:34	08/12/16 16:12	1
1,1'-Biphenyl	0.96	U	0.96	0.096	ug/L		08/09/16 15:34	08/12/16 16:12	1
Bis(2-chloroethoxy)methane	0.96	U	0.96	0.096	ug/L		08/09/16 15:34	08/12/16 16:12	1
Bis(2-chloroethyl)ether	0.96	U	0.96	0.096	ug/L		08/09/16 15:34	08/12/16 16:12	1
Bis(2-ethylhexyl) phthalate	4.8	U	4.8	1.9	ug/L		08/09/16 15:34	08/12/16 16:12	1
4-Bromophenyl phenyl ether	0.96	U	0.96	0.12	ug/L		08/09/16 15:34	08/12/16 16:12	1
Butyl benzyl phthalate	0.96	U	0.96	0.12	ug/L		08/09/16 15:34	08/12/16 16:12	1
Caprolactam	0.96	U	0.96	0.13	ug/L		08/09/16 15:34	08/12/16 16:12	1
Carbazole	1.9	U	1.9	0.096	ug/L		08/09/16 15:34	08/12/16 16:12	1
4-Chloroaniline	3.9	U	3.9	1.9	ug/L		08/09/16 15:34	08/12/16 16:12	1
4-Chloro-3-methylphenol	0.96	U	0.96	0.12	ug/L		08/09/16 15:34	08/12/16 16:12	1
2-Chloronaphthalene	0.96	U	0.96	0.096	ug/L		08/09/16 15:34	08/12/16 16:12	1
2-Chlorophenol	0.96	U	0.96	0.12	ug/L		08/09/16 15:34	08/12/16 16:12	1
4-Chlorophenyl phenyl ether	0.96	U	0.96	0.096	ug/L		08/09/16 15:34	08/12/16 16:12	1
Chrysene	0.19	U	0.19	0.043	ug/L		08/09/16 15:34	08/12/16 16:12	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.096	ug/L		08/09/16 15:34	08/12/16 16:12	1
Dibenzofuran	0.96	U	0.96	0.096	ug/L		08/09/16 15:34	08/12/16 16:12	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		08/09/16 15:34	08/12/16 16:12	1
2,4-Dichlorophenol	0.96	U	0.96	0.096	ug/L		08/09/16 15:34	08/12/16 16:12	1
Diethyl phthalate	0.96	U	0.96	0.11	ug/L		08/09/16 15:34	08/12/16 16:12	1
2,4-Dimethylphenol	1.9	U	1.9	0.67	ug/L		08/09/16 15:34	08/12/16 16:12	1
Dimethyl phthalate	0.96	U	0.96	0.096	ug/L		08/09/16 15:34	08/12/16 16:12	1
Di-n-butyl phthalate	0.96	U	0.96	0.38	ug/L		08/09/16 15:34	08/12/16 16:12	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.96	ug/L		08/09/16 15:34	08/12/16 16:12	1
2,4-Dinitrophenol	9.6	U	9.6	1.1	ug/L		08/09/16 15:34	08/12/16 16:12	1
2,4-Dinitrotoluene	0.96	U	0.96	0.12	ug/L		08/09/16 15:34	08/12/16 16:12	1
2,6-Dinitrotoluene	0.96	U	0.96	0.13	ug/L		08/09/16 15:34	08/12/16 16:12	1
Di-n-octyl phthalate	0.96	U	0.96	0.16	ug/L		08/09/16 15:34	08/12/16 16:12	1
Fluoranthene	0.19	U	0.19	0.096	ug/L		08/09/16 15:34	08/12/16 16:12	1
Fluorene	0.19	U	0.19	0.096	ug/L		08/09/16 15:34	08/12/16 16:12	1
Hexachlorobenzene	0.96	U	0.96	0.096	ug/L		08/09/16 15:34	08/12/16 16:12	1
Hexachlorobutadiene	0.96	U	0.96	0.096	ug/L		08/09/16 15:34	08/12/16 16:12	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.48	ug/L		08/09/16 15:34	08/12/16 16:12	1
Hexachloroethane	0.96	U	0.96	0.48	ug/L		08/09/16 15:34	08/12/16 16:12	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.096	ug/L		08/09/16 15:34	08/12/16 16:12	1
Isophorone	0.96	U	0.96	0.096	ug/L		08/09/16 15:34	08/12/16 16:12	1
2-Methylnaphthalene	0.19	U	0.19	0.096	ug/L		08/09/16 15:34	08/12/16 16:12	1
2-Methylphenol	1.9	U	1.9	0.71	ug/L		08/09/16 15:34	08/12/16 16:12	1
3 & 4 Methylphenol	1.9	U	1.9	0.64	ug/L		08/09/16 15:34	08/12/16 16:12	1
Naphthalene	0.19	U	0.19	0.096	ug/L		08/09/16 15:34	08/12/16 16:12	1

Client Sample ID: 1600780-EB-1

Lab Sample ID: 680-128400-14

Date Collected: 08/05/16 15:46

Matrix: Water

Date Received: 08/06/16 09:44

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	0.96	U	0.96	0.15	ug/L		08/09/16 15:34	08/12/16 16:12	1
3-Nitroaniline	4.8	U	4.8	0.15	ug/L		08/09/16 15:34	08/12/16 16:12	1
4-Nitroaniline	4.8	U	4.8	0.48	ug/L		08/09/16 15:34	08/12/16 16:12	1
Nitrobenzene	0.96	U	0.96	0.096	ug/L		08/09/16 15:34	08/12/16 16:12	1
2-Nitrophenol	0.96	U	0.96	0.096	ug/L		08/09/16 15:34	08/12/16 16:12	1
4-Nitrophenol	7.7	U	7.7	3.9	ug/L		08/09/16 15:34	08/12/16 16:12	1
N-Nitrosodi-n-propylamine	0.96	U	0.96	0.13	ug/L		08/09/16 15:34	08/12/16 16:12	1
N-Nitrosodiphenylamine	0.96	U	0.96	0.36	ug/L		08/09/16 15:34	08/12/16 16:12	1
2,2'-oxybis[1-chloropropane]	0.96	U	0.96	0.096	ug/L		08/09/16 15:34	08/12/16 16:12	1
Pentachlorophenol	4.8	U	4.8	0.39	ug/L		08/09/16 15:34	08/12/16 16:12	1
Phenanthrene	0.19	U	0.19	0.096	ug/L		08/09/16 15:34	08/12/16 16:12	1
Phenol	0.96	U	0.96	0.13	ug/L		08/09/16 15:34	08/12/16 16:12	1
Pyrene	0.19	U	0.19	0.096	ug/L		08/09/16 15:34	08/12/16 16:12	1
2,4,5-Trichlorophenol	0.96	U	0.96	0.12	ug/L		08/09/16 15:34	08/12/16 16:12	1
2,4,6-Trichlorophenol	0.96	U	0.96	0.16	ug/L		08/09/16 15:34	08/12/16 16:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*57*		*31 - 107*	*08/09/16 15:34*	*08/12/16 16:12*	*1*
2-Fluorophenol	*63*		*18 - 112*	*08/09/16 15:34*	*08/12/16 16:12*	*1*
Nitrobenzene-d5 (Surr)	*69*		*37 - 103*	*08/09/16 15:34*	*08/12/16 16:12*	*1*
Phenol-d5 (Surr)	*59*		*20 - 113*	*08/09/16 15:34*	*08/12/16 16:12*	*1*
Terphenyl-d14 (Surr)	*65*		*22 - 121*	*08/09/16 15:34*	*08/12/16 16:12*	*1*
2,4,6-Tribromophenol (Surr)	*63*		*39 - 133*	*08/09/16 15:34*	*08/12/16 16:12*	*1*

Client Sample ID: 1600780-EB-2

Lab Sample ID: 680-128400-15

Date Collected: 08/05/16 16:30

Matrix: Water

Date Received: 08/06/16 09:44

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	7.0	ug/L			08/16/16 17:11	1
Benzene	1.0	U	1.0	0.43	ug/L			08/16/16 17:11	1
Bromobenzene	1.0	U	1.0	0.50	ug/L			08/16/16 17:11	1
Bromochloromethane	1.0	U	1.0	0.45	ug/L			08/16/16 17:11	1
Bromodichloromethane	1.0	U	1.0	0.44	ug/L			08/16/16 17:11	1
Bromoform	1.0	U	1.0	0.43	ug/L			08/16/16 17:11	1
Bromomethane	5.0	U	5.0	2.5	ug/L			08/16/16 17:11	1
2-Butanone (MEK)	10	U	10	3.4	ug/L			08/16/16 17:11	1
Carbon disulfide	2.0	U	2.0	1.0	ug/L			08/16/16 17:11	1
Carbon tetrachloride	1.0	U	1.0	0.33	ug/L			08/16/16 17:11	1
Chlorobenzene	1.0	U	1.0	0.26	ug/L			08/16/16 17:11	1
Chloroethane	5.0	U	5.0	2.5	ug/L			08/16/16 17:11	1
Chloroform	**0.67**	**J**	1.0	0.50	ug/L			08/16/16 17:11	1
Chloromethane	1.0	U	1.0	0.40	ug/L			08/16/16 17:11	1
2-Chlorotoluene	1.0	U	1.0	0.27	ug/L			08/16/16 17:11	1
4-Chlorotoluene	1.0	U	1.0	0.45	ug/L			08/16/16 17:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.41	ug/L			08/16/16 17:11	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.40	ug/L			08/16/16 17:11	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			08/16/16 17:11	1
Dibromomethane	1.0	U	1.0	0.35	ug/L			08/16/16 17:11	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Client Sample ID: 1600780-EB-2

Date Collected: 08/05/16 16:30
Date Received: 08/06/16 09:44

Lab Sample ID: 680-128400-15

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.0	U	1.0	0.60	ug/L			08/16/16 17:11	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			08/16/16 17:11	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			08/16/16 17:11	1
1,1-Dichloroethene	1.0	U	1.0	0.36	ug/L			08/16/16 17:11	1
1,2-Dichloroethene, Total	2.0	U	2.0	0.37	ug/L			08/16/16 17:11	1
1,2-Dichloropropane	1.0	U	1.0	0.67	ug/L			08/16/16 17:11	1
1,3-Dichloropropane	1.0	U	1.0	0.34	ug/L			08/16/16 17:11	1
2,2-Dichloropropane	1.0	U	1.0	0.37	ug/L			08/16/16 17:11	1
1,1-Dichloropropene	1.0	U	1.0	0.34	ug/L			08/16/16 17:11	1
Ethylbenzene	1.0	U	1.0	0.33	ug/L			08/16/16 17:11	1
2-Hexanone	10	U	10	2.0	ug/L			08/16/16 17:11	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			08/16/16 17:11	1
Methylene Chloride	5.0	U	5.0	2.5	ug/L			08/16/16 17:11	1
4-Methyl-2-pentanone	10	U	10	2.1	ug/L			08/16/16 17:11	1
Methyl tert-butyl ether	10	U	10	0.30	ug/L			08/16/16 17:11	1
m-Xylene & p-Xylene	1.0	U	1.0	0.35	ug/L			08/16/16 17:11	1
n-Butylbenzene	1.0	U	1.0	0.47	ug/L			08/16/16 17:11	1
N-Propylbenzene	1.0	U	1.0	0.38	ug/L			08/16/16 17:11	1
o-Xylene	1.0	U	1.0	0.23	ug/L			08/16/16 17:11	1
p-Isopropyltoluene	1.0	U	1.0	0.48	ug/L			08/16/16 17:11	1
sec-Butylbenzene	1.0	U	1.0	0.42	ug/L			08/16/16 17:11	1
Styrene	1.0	U	1.0	0.27	ug/L			08/16/16 17:11	1
tert-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/16/16 17:11	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/16/16 17:11	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.62	ug/L			08/16/16 17:11	1
Tetrachloroethene	1.0	U	1.0	0.74	ug/L			08/16/16 17:11	1
Toluene	1.0	U	1.0	0.48	ug/L			08/16/16 17:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.37	ug/L			08/16/16 17:11	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.42	ug/L			08/16/16 17:11	1
1,2,3-Trichlorobenzene	5.0	U	5.0	2.5	ug/L			08/16/16 17:11	1
1,1,1-Trichloroethane	1.0	U	1.0	0.37	ug/L			08/16/16 17:11	1
1,1,2-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/16/16 17:11	1
Trichloroethene	1.0	U	1.0	0.48	ug/L			08/16/16 17:11	1
Trichlorofluoromethane	1.0	U	1.0	0.42	ug/L			08/16/16 17:11	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.47	ug/L			08/16/16 17:11	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.31	ug/L			08/16/16 17:11	1
Vinyl acetate	2.0	U	2.0	0.81	ug/L			08/16/16 17:11	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			08/16/16 17:11	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			08/16/16 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*08/16/16 17:11*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 122*		*08/16/16 17:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*73 - 131*		*08/16/16 17:11*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*08/16/16 17:11*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.097	ug/L		08/09/16 15:34	08/12/16 16:37	1
Acenaphthylene	0.19	U	0.19	0.097	ug/L		08/09/16 15:34	08/12/16 16:37	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Client Sample ID: 1600780-EB-2

Date Collected: 08/05/16 16:30
Date Received: 08/06/16 09:44

Lab Sample ID: 680-128400-15

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	**0.50**	**J**	0.97	0.29	ug/L		08/09/16 15:34	08/12/16 16:37	1
Anthracene	0.19	U	0.19	0.097	ug/L		08/09/16 15:34	08/12/16 16:37	1
Atrazine	3.9	U	3.9	1.9	ug/L		08/09/16 15:34	08/12/16 16:37	1
Benzaldehyde	**0.88**	**J**	0.97	0.097	ug/L		08/09/16 15:34	08/12/16 16:37	1
Benzo[a]anthracene	0.19	U	0.19	0.097	ug/L		08/09/16 15:34	08/12/16 16:37	1
Benzo[a]pyrene	0.19	U	0.19	0.097	ug/L		08/09/16 15:34	08/12/16 16:37	1
Benzo[b]fluoranthene	0.19	U	0.19	0.097	ug/L		08/09/16 15:34	08/12/16 16:37	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.097	ug/L		08/09/16 15:34	08/12/16 16:37	1
Benzo[k]fluoranthene	0.19	U	0.19	0.097	ug/L		08/09/16 15:34	08/12/16 16:37	1
1,1'-Biphenyl	0.97	U	0.97	0.097	ug/L		08/09/16 15:34	08/12/16 16:37	1
Bis(2-chloroethoxy)methane	0.97	U	0.97	0.097	ug/L		08/09/16 15:34	08/12/16 16:37	1
Bis(2-chloroethyl)ether	0.97	U	0.97	0.097	ug/L		08/09/16 15:34	08/12/16 16:37	1
Bis(2-ethylhexyl) phthalate	4.9	U	4.9	1.9	ug/L		08/09/16 15:34	08/12/16 16:37	1
4-Bromophenyl phenyl ether	0.97	U	0.97	0.12	ug/L		08/09/16 15:34	08/12/16 16:37	1
Butyl benzyl phthalate	0.97	U	0.97	0.12	ug/L		08/09/16 15:34	08/12/16 16:37	1
Caprolactam	0.97	U	0.97	0.13	ug/L		08/09/16 15:34	08/12/16 16:37	1
Carbazole	1.9	U	1.9	0.097	ug/L		08/09/16 15:34	08/12/16 16:37	1
4-Chloroaniline	3.9	U	3.9	1.9	ug/L		08/09/16 15:34	08/12/16 16:37	1
4-Chloro-3-methylphenol	0.97	U	0.97	0.12	ug/L		08/09/16 15:34	08/12/16 16:37	1
2-Chloronaphthalene	0.97	U	0.97	0.097	ug/L		08/09/16 15:34	08/12/16 16:37	1
2-Chlorophenol	0.97	U	0.97	0.12	ug/L		08/09/16 15:34	08/12/16 16:37	1
4-Chlorophenyl phenyl ether	0.97	U	0.97	0.097	ug/L		08/09/16 15:34	08/12/16 16:37	1
Chrysene	0.19	U	0.19	0.044	ug/L		08/09/16 15:34	08/12/16 16:37	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.097	ug/L		08/09/16 15:34	08/12/16 16:37	1
Dibenzofuran	0.97	U	0.97	0.097	ug/L		08/09/16 15:34	08/12/16 16:37	1
3,3'-Dichlorobenzidine	19	U	19	1.9	ug/L		08/09/16 15:34	08/12/16 16:37	1
2,4-Dichlorophenol	0.97	U	0.97	0.097	ug/L		08/09/16 15:34	08/12/16 16:37	1
Diethyl phthalate	0.97	U	0.97	0.11	ug/L		08/09/16 15:34	08/12/16 16:37	1
2,4-Dimethylphenol	1.9	U	1.9	0.67	ug/L		08/09/16 15:34	08/12/16 16:37	1
Dimethyl phthalate	0.97	U	0.97	0.097	ug/L		08/09/16 15:34	08/12/16 16:37	1
Di-n-butyl phthalate	0.97	U	0.97	0.38	ug/L		08/09/16 15:34	08/12/16 16:37	1
4,6-Dinitro-2-methylphenol	4.9	U	4.9	0.97	ug/L		08/09/16 15:34	08/12/16 16:37	1
2,4-Dinitrophenol	9.7	U	9.7	1.1	ug/L		08/09/16 15:34	08/12/16 16:37	1
2,4-Dinitrotoluene	0.97	U	0.97	0.12	ug/L		08/09/16 15:34	08/12/16 16:37	1
2,6-Dinitrotoluene	0.97	U	0.97	0.13	ug/L		08/09/16 15:34	08/12/16 16:37	1
Di-n-octyl phthalate	0.97	U	0.97	0.17	ug/L		08/09/16 15:34	08/12/16 16:37	1
Fluoranthene	0.19	U	0.19	0.097	ug/L		08/09/16 15:34	08/12/16 16:37	1
Fluorene	0.19	U	0.19	0.097	ug/L		08/09/16 15:34	08/12/16 16:37	1
Hexachlorobenzene	0.97	U	0.97	0.097	ug/L		08/09/16 15:34	08/12/16 16:37	1
Hexachlorobutadiene	0.97	U	0.97	0.097	ug/L		08/09/16 15:34	08/12/16 16:37	1
Hexachlorocyclopentadiene	1.9	U	1.9	0.49	ug/L		08/09/16 15:34	08/12/16 16:37	1
Hexachloroethane	0.97	U	0.97	0.49	ug/L		08/09/16 15:34	08/12/16 16:37	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.097	ug/L		08/09/16 15:34	08/12/16 16:37	1
Isophorone	0.97	U	0.97	0.097	ug/L		08/09/16 15:34	08/12/16 16:37	1
2-Methylnaphthalene	0.19	U	0.19	0.097	ug/L		08/09/16 15:34	08/12/16 16:37	1
2-Methylphenol	1.9	U	1.9	0.72	ug/L		08/09/16 15:34	08/12/16 16:37	1
3 & 4 Methylphenol	1.9	U	1.9	0.64	ug/L		08/09/16 15:34	08/12/16 16:37	1
Naphthalene	0.19	U	0.19	0.097	ug/L		08/09/16 15:34	08/12/16 16:37	1
2-Nitroaniline	0.97	U	0.97	0.16	ug/L		08/09/16 15:34	08/12/16 16:37	1

Client Sample ID: 1600780-EB-2

Lab Sample ID: 680-128400-15

Date Collected: 08/05/16 16:30

Matrix: Water

Date Received: 08/06/16 09:44

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	4.9	U	4.9	0.16	ug/L		08/09/16 15:34	08/12/16 16:37	1
4-Nitroaniline	4.9	U	4.9	0.49	ug/L		08/09/16 15:34	08/12/16 16:37	1
Nitrobenzene	0.97	U	0.97	0.097	ug/L		08/09/16 15:34	08/12/16 16:37	1
2-Nitrophenol	0.97	U	0.97	0.097	ug/L		08/09/16 15:34	08/12/16 16:37	1
4-Nitrophenol	7.8	U	7.8	3.9	ug/L		08/09/16 15:34	08/12/16 16:37	1
N-Nitrosodi-n-propylamine	0.97	U	0.97	0.13	ug/L		08/09/16 15:34	08/12/16 16:37	1
N-Nitrosodiphenylamine	0.97	U	0.97	0.36	ug/L		08/09/16 15:34	08/12/16 16:37	1
2,2'-oxybis[1-chloropropane]	0.97	U	0.97	0.097	ug/L		08/09/16 15:34	08/12/16 16:37	1
Pentachlorophenol	4.9	U	4.9	0.39	ug/L		08/09/16 15:34	08/12/16 16:37	1
Phenanthrene	0.19	U	0.19	0.097	ug/L		08/09/16 15:34	08/12/16 16:37	1
Phenol	0.97	U	0.97	0.13	ug/L		08/09/16 15:34	08/12/16 16:37	1
Pyrene	0.19	U	0.19	0.097	ug/L		08/09/16 15:34	08/12/16 16:37	1
2,4,5-Trichlorophenol	0.97	U	0.97	0.12	ug/L		08/09/16 15:34	08/12/16 16:37	1
2,4,6-Trichlorophenol	0.97	U	0.97	0.17	ug/L		08/09/16 15:34	08/12/16 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*64*		*31 - 107*	*08/09/16 15:34*	*08/12/16 16:37*	*1*
2-Fluorophenol	*69*		*18 - 112*	*08/09/16 15:34*	*08/12/16 16:37*	*1*
Nitrobenzene-d5 (Surr)	*74*		*37 - 103*	*08/09/16 15:34*	*08/12/16 16:37*	*1*
Phenol-d5 (Surr)	*64*		*20 - 113*	*08/09/16 15:34*	*08/12/16 16:37*	*1*
Terphenyl-d14 (Surr)	*81*		*22 - 121*	*08/09/16 15:34*	*08/12/16 16:37*	*1*
2,4,6-Tribromophenol (Surr)	*70*		*39 - 133*	*08/09/16 15:34*	*08/12/16 16:37*	*1*

Client Sample ID: TRIP BLANK

Lab Sample ID: 680-128400-16

Date Collected: 08/05/16 00:00

Matrix: Water

Date Received: 08/06/16 09:44

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	7.0	ug/L			08/16/16 14:34	1
Benzene	1.0	U	1.0	0.43	ug/L			08/16/16 14:34	1
Bromobenzene	1.0	U	1.0	0.50	ug/L			08/16/16 14:34	1
Bromochloromethane	1.0	U	1.0	0.45	ug/L			08/16/16 14:34	1
Bromodichloromethane	1.0	U	1.0	0.44	ug/L			08/16/16 14:34	1
Bromoform	1.0	U	1.0	0.43	ug/L			08/16/16 14:34	1
Bromomethane	5.0	U	5.0	2.5	ug/L			08/16/16 14:34	1
2-Butanone (MEK)	10	U	10	3.4	ug/L			08/16/16 14:34	1
Carbon disulfide	2.0	U	2.0	1.0	ug/L			08/16/16 14:34	1
Carbon tetrachloride	1.0	U	1.0	0.33	ug/L			08/16/16 14:34	1
Chlorobenzene	1.0	U	1.0	0.26	ug/L			08/16/16 14:34	1
Chloroethane	5.0	U	5.0	2.5	ug/L			08/16/16 14:34	1
Chloroform	1.0	U	1.0	0.50	ug/L			08/16/16 14:34	1
Chloromethane	1.0	U	1.0	0.40	ug/L			08/16/16 14:34	1
2-Chlorotoluene	1.0	U	1.0	0.27	ug/L			08/16/16 14:34	1
4-Chlorotoluene	1.0	U	1.0	0.45	ug/L			08/16/16 14:34	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.41	ug/L			08/16/16 14:34	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.40	ug/L			08/16/16 14:34	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			08/16/16 14:34	1
Dibromomethane	1.0	U	1.0	0.35	ug/L			08/16/16 14:34	1
Dichlorodifluoromethane	1.0	U	1.0	0.60	ug/L			08/16/16 14:34	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 680-128400-16

Date Collected: 08/05/16 00:00
Matrix: Water
Date Received: 08/06/16 09:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			08/16/16 14:34	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			08/16/16 14:34	1
1,1-Dichloroethene	1.0	U	1.0	0.36	ug/L			08/16/16 14:34	1
1,2-Dichloroethene, Total	2.0	U	2.0	0.37	ug/L			08/16/16 14:34	1
1,2-Dichloropropane	1.0	U	1.0	0.67	ug/L			08/16/16 14:34	1
1,3-Dichloropropane	1.0	U	1.0	0.34	ug/L			08/16/16 14:34	1
2,2-Dichloropropane	1.0	U	1.0	0.37	ug/L			08/16/16 14:34	1
1,1-Dichloropropene	1.0	U	1.0	0.34	ug/L			08/16/16 14:34	1
Ethylbenzene	1.0	U	1.0	0.33	ug/L			08/16/16 14:34	1
2-Hexanone	10	U	10	2.0	ug/L			08/16/16 14:34	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			08/16/16 14:34	1
Methylene Chloride	5.0	U	5.0	2.5	ug/L			08/16/16 14:34	1
4-Methyl-2-pentanone	10	U	10	2.1	ug/L			08/16/16 14:34	1
Methyl tert-butyl ether	10	U	10	0.30	ug/L			08/16/16 14:34	1
m-Xylene & p-Xylene	1.0	U	1.0	0.35	ug/L			08/16/16 14:34	1
n-Butylbenzene	1.0	U	1.0	0.47	ug/L			08/16/16 14:34	1
N-Propylbenzene	1.0	U	1.0	0.38	ug/L			08/16/16 14:34	1
o-Xylene	1.0	U	1.0	0.23	ug/L			08/16/16 14:34	1
p-Isopropyltoluene	1.0	U	1.0	0.48	ug/L			08/16/16 14:34	1
sec-Butylbenzene	1.0	U	1.0	0.42	ug/L			08/16/16 14:34	1
Styrene	1.0	U	1.0	0.27	ug/L			08/16/16 14:34	1
tert-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/16/16 14:34	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/16/16 14:34	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.62	ug/L			08/16/16 14:34	1
Tetrachloroethene	1.0	U	1.0	0.74	ug/L			08/16/16 14:34	1
Toluene	1.0	U	1.0	0.48	ug/L			08/16/16 14:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.37	ug/L			08/16/16 14:34	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.42	ug/L			08/16/16 14:34	1
1,2,3-Trichlorobenzene	5.0	U	5.0	2.5	ug/L			08/16/16 14:34	1
1,1,1-Trichloroethane	1.0	U	1.0	0.37	ug/L			08/16/16 14:34	1
1,1,2-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/16/16 14:34	1
Trichloroethene	1.0	U	1.0	0.48	ug/L			08/16/16 14:34	1
Trichlorofluoromethane	1.0	U	1.0	0.42	ug/L			08/16/16 14:34	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.47	ug/L			08/16/16 14:34	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.31	ug/L			08/16/16 14:34	1
Vinyl acetate	2.0	U	2.0	0.81	ug/L			08/16/16 14:34	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			08/16/16 14:34	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			08/16/16 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/16/16 14:34*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 122*		*08/16/16 14:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*73 - 131*		*08/16/16 14:34*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*08/16/16 14:34*	*1*

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Client Sample ID: 1600780-MW-D

Date Collected: 08/05/16 13:33
Date Received: 08/06/16 09:44

Lab Sample ID: 680-128400-17

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**51**		50	35	ug/L			08/16/16 19:48	5
Benzene	**510**		5.0	2.2	ug/L			08/16/16 19:48	5
Bromobenzene	5.0	U	5.0	2.5	ug/L			08/16/16 19:48	5
Bromochloromethane	5.0	U	5.0	2.3	ug/L			08/16/16 19:48	5
Bromodichloromethane	5.0	U	5.0	2.2	ug/L			08/16/16 19:48	5
Bromoform	5.0	U	5.0	2.2	ug/L			08/16/16 19:48	5
Bromomethane	25	U	25	13	ug/L			08/16/16 19:48	5
2-Butanone (MEK)	50	U	50	17	ug/L			08/16/16 19:48	5
Carbon disulfide	10	U	10	5.0	ug/L			08/16/16 19:48	5
Carbon tetrachloride	5.0	U	5.0	1.7	ug/L			08/16/16 19:48	5
Chlorobenzene	5.0	U	5.0	1.3	ug/L			08/16/16 19:48	5
Chloroethane	25	U	25	13	ug/L			08/16/16 19:48	5
Chloroform	5.0	U	5.0	2.5	ug/L			08/16/16 19:48	5
Chloromethane	5.0	U	5.0	2.0	ug/L			08/16/16 19:48	5
2-Chlorotoluene	5.0	U	5.0	1.4	ug/L			08/16/16 19:48	5
4-Chlorotoluene	5.0	U	5.0	2.3	ug/L			08/16/16 19:48	5
cis-1,2-Dichloroethene	5.0	U	5.0	2.1	ug/L			08/16/16 19:48	5
cis-1,3-Dichloropropene	5.0	U	5.0	2.0	ug/L			08/16/16 19:48	5
Dibromochloromethane	5.0	U	5.0	1.6	ug/L			08/16/16 19:48	5
Dibromomethane	5.0	U	5.0	1.8	ug/L			08/16/16 19:48	5
Dichlorodifluoromethane	5.0	U	5.0	3.0	ug/L			08/16/16 19:48	5
1,1-Dichloroethane	5.0	U	5.0	1.9	ug/L			08/16/16 19:48	5
1,2-Dichloroethane	5.0	U	5.0	2.5	ug/L			08/16/16 19:48	5
1,1-Dichloroethene	5.0	U	5.0	1.8	ug/L			08/16/16 19:48	5
1,2-Dichloroethene, Total	10	U	10	1.9	ug/L			08/16/16 19:48	5
1,2-Dichloropropane	5.0	U	5.0	3.4	ug/L			08/16/16 19:48	5
1,3-Dichloropropane	5.0	U	5.0	1.7	ug/L			08/16/16 19:48	5
2,2-Dichloropropane	5.0	U	5.0	1.9	ug/L			08/16/16 19:48	5
1,1-Dichloropropene	5.0	U	5.0	1.7	ug/L			08/16/16 19:48	5
Ethylbenzene	**160**		5.0	1.7	ug/L			08/16/16 19:48	5
2-Hexanone	50	U	50	10	ug/L			08/16/16 19:48	5
Isopropylbenzene	**5.5**		5.0	1.8	ug/L			08/16/16 19:48	5
Methylene Chloride	25	U	25	13	ug/L			08/16/16 19:48	5
4-Methyl-2-pentanone	50	U	50	11	ug/L			08/16/16 19:48	5
Methyl tert-butyl ether	50	U	50	1.5	ug/L			08/16/16 19:48	5
m-Xylene & p-Xylene	**6.0**		5.0	1.8	ug/L			08/16/16 19:48	5
n-Butylbenzene	5.0	U	5.0	2.4	ug/L			08/16/16 19:48	5
N-Propylbenzene	**12**		5.0	1.9	ug/L			08/16/16 19:48	5
o-Xylene	**4.3**	**J**	5.0	1.2	ug/L			08/16/16 19:48	5
p-Isopropyltoluene	5.0	U	5.0	2.4	ug/L			08/16/16 19:48	5
sec-Butylbenzene	5.0	U	5.0	2.1	ug/L			08/16/16 19:48	5
Styrene	5.0	U	5.0	1.4	ug/L			08/16/16 19:48	5
tert-Butylbenzene	5.0	U	5.0	2.3	ug/L			08/16/16 19:48	5
1,1,1,2-Tetrachloroethane	5.0	U	5.0	1.9	ug/L			08/16/16 19:48	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0	3.1	ug/L			08/16/16 19:48	5
Tetrachloroethene	5.0	U	5.0	3.7	ug/L			08/16/16 19:48	5
Toluene	**9.9**		5.0	2.4	ug/L			08/16/16 19:48	5
trans-1,2-Dichloroethene	5.0	U	5.0	1.9	ug/L			08/16/16 19:48	5
trans-1,3-Dichloropropene	5.0	U	5.0	2.1	ug/L			08/16/16 19:48	5

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Client Sample ID: 1600780-MW-D

Date Collected: 08/05/16 13:33
Date Received: 08/06/16 09:44

Lab Sample ID: 680-128400-17

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	25	U	25	13	ug/L			08/16/16 19:48	5
1,1,1-Trichloroethane	5.0	U	5.0	1.9	ug/L			08/16/16 19:48	5
1,1,2-Trichloroethane	5.0	U	5.0	1.7	ug/L			08/16/16 19:48	5
Trichloroethene	5.0	U	5.0	2.4	ug/L			08/16/16 19:48	5
Trichlorofluoromethane	5.0	U	5.0	2.1	ug/L			08/16/16 19:48	5
1,2,4-Trimethylbenzene	**99**		5.0	2.4	ug/L			08/16/16 19:48	5
1,3,5-Trimethylbenzene	5.0	U	5.0	1.6	ug/L			08/16/16 19:48	5
Vinyl acetate	10	U	10	4.1	ug/L			08/16/16 19:48	5
Vinyl chloride	5.0	U	5.0	2.5	ug/L			08/16/16 19:48	5
Xylenes, Total	**10**		5.0	1.2	ug/L			08/16/16 19:48	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*08/16/16 19:48*	*5*
Dibromofluoromethane (Surr)	*103*		*80 - 122*		*08/16/16 19:48*	*5*
1,2-Dichloroethane-d4 (Surr)	*109*		*73 - 131*		*08/16/16 19:48*	*5*
Toluene-d8 (Surr)	*95*		*80 - 120*		*08/16/16 19:48*	*5*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.20	U	0.20	0.10	ug/L		08/09/16 15:34	08/12/16 17:02	1
Acenaphthylene	0.20	U	0.20	0.10	ug/L		08/09/16 15:34	08/12/16 17:02	1
Acetophenone	**0.47**	**J**	1.0	0.30	ug/L		08/09/16 15:34	08/12/16 17:02	1
Anthracene	0.20	U	0.20	0.10	ug/L		08/09/16 15:34	08/12/16 17:02	1
Atrazine	4.0	U	4.0	2.0	ug/L		08/09/16 15:34	08/12/16 17:02	1
Benzaldehyde	1.0	U	1.0	0.10	ug/L		08/09/16 15:34	08/12/16 17:02	1
Benzo[a]anthracene	0.20	U	0.20	0.10	ug/L		08/09/16 15:34	08/12/16 17:02	1
Benzo[a]pyrene	0.20	U	0.20	0.10	ug/L		08/09/16 15:34	08/12/16 17:02	1
Benzo[b]fluoranthene	0.20	U	0.20	0.10	ug/L		08/09/16 15:34	08/12/16 17:02	1
Benzo[g,h,i]perylene	0.20	U	0.20	0.10	ug/L		08/09/16 15:34	08/12/16 17:02	1
Benzo[k]fluoranthene	0.20	U	0.20	0.10	ug/L		08/09/16 15:34	08/12/16 17:02	1
1,1'-Biphenyl	1.0	U	1.0	0.10	ug/L		08/09/16 15:34	08/12/16 17:02	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.10	ug/L		08/09/16 15:34	08/12/16 17:02	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.10	ug/L		08/09/16 15:34	08/12/16 17:02	1
Bis(2-ethylhexyl) phthalate	5.0	U	5.0	2.0	ug/L		08/09/16 15:34	08/12/16 17:02	1
4-Bromophenyl phenyl ether	1.0	U	1.0	0.12	ug/L		08/09/16 15:34	08/12/16 17:02	1
Butyl benzyl phthalate	1.0	U	1.0	0.12	ug/L		08/09/16 15:34	08/12/16 17:02	1
Caprolactam	1.0	U	1.0	0.13	ug/L		08/09/16 15:34	08/12/16 17:02	1
Carbazole	2.0	U	2.0	0.10	ug/L		08/09/16 15:34	08/12/16 17:02	1
4-Chloroaniline	4.0	U	4.0	2.0	ug/L		08/09/16 15:34	08/12/16 17:02	1
4-Chloro-3-methylphenol	1.0	U	1.0	0.12	ug/L		08/09/16 15:34	08/12/16 17:02	1
2-Chloronaphthalene	1.0	U	1.0	0.10	ug/L		08/09/16 15:34	08/12/16 17:02	1
2-Chlorophenol	1.0	U	1.0	0.12	ug/L		08/09/16 15:34	08/12/16 17:02	1
4-Chlorophenyl phenyl ether	1.0	U	1.0	0.10	ug/L		08/09/16 15:34	08/12/16 17:02	1
Chrysene	0.20	U	0.20	0.045	ug/L		08/09/16 15:34	08/12/16 17:02	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.10	ug/L		08/09/16 15:34	08/12/16 17:02	1
Dibenzofuran	1.0	U	1.0	0.10	ug/L		08/09/16 15:34	08/12/16 17:02	1
3,3'-Dichlorobenzidine	20	U	20	2.0	ug/L		08/09/16 15:34	08/12/16 17:02	1
2,4-Dichlorophenol	**0.15**	**J**	1.0	0.10	ug/L		08/09/16 15:34	08/12/16 17:02	1
Diethyl phthalate	1.0	U	1.0	0.11	ug/L		08/09/16 15:34	08/12/16 17:02	1
2,4-Dimethylphenol	**0.69**	**J**	2.0	0.69	ug/L		08/09/16 15:34	08/12/16 17:02	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Client Sample ID: 1600780-MW-D

Date Collected: 08/05/16 13:33
Date Received: 08/06/16 09:44

Lab Sample ID: 680-128400-17

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	1.0	U	1.0	0.10	ug/L		08/09/16 15:34	08/12/16 17:02	1
Di-n-butyl phthalate	1.0	U	1.0	0.39	ug/L		08/09/16 15:34	08/12/16 17:02	1
4,6-Dinitro-2-methylphenol	5.0	U	5.0	1.0	ug/L		08/09/16 15:34	08/12/16 17:02	1
2,4-Dinitrophenol	10	U	10	1.1	ug/L		08/09/16 15:34	08/12/16 17:02	1
2,4-Dinitrotoluene	1.0	U	1.0	0.12	ug/L		08/09/16 15:34	08/12/16 17:02	1
2,6-Dinitrotoluene	1.0	U	1.0	0.13	ug/L		08/09/16 15:34	08/12/16 17:02	1
Di-n-octyl phthalate	1.0	U	1.0	0.17	ug/L		08/09/16 15:34	08/12/16 17:02	1
Fluoranthene	0.20	U	0.20	0.10	ug/L		08/09/16 15:34	08/12/16 17:02	1
Fluorene	0.20	U	0.20	0.10	ug/L		08/09/16 15:34	08/12/16 17:02	1
Hexachlorobenzene	1.0	U	1.0	0.10	ug/L		08/09/16 15:34	08/12/16 17:02	1
Hexachlorobutadiene	1.0	U	1.0	0.10	ug/L		08/09/16 15:34	08/12/16 17:02	1
Hexachlorocyclopentadiene	2.0	U	2.0	0.50	ug/L		08/09/16 15:34	08/12/16 17:02	1
Hexachloroethane	1.0	U	1.0	0.50	ug/L		08/09/16 15:34	08/12/16 17:02	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.10	ug/L		08/09/16 15:34	08/12/16 17:02	1
Isophorone	1.0	U	1.0	0.10	ug/L		08/09/16 15:34	08/12/16 17:02	1
2-Methylnaphthalene	**0.46**		0.20	0.10	ug/L		08/09/16 15:34	08/12/16 17:02	1
2-Methylphenol	2.0	U	2.0	0.74	ug/L		08/09/16 15:34	08/12/16 17:02	1
3 & 4 Methylphenol	**2.0**		2.0	0.66	ug/L		08/09/16 15:34	08/12/16 17:02	1
Naphthalene	**1.7**		0.20	0.10	ug/L		08/09/16 15:34	08/12/16 17:02	1
2-Nitroaniline	1.0	U	1.0	0.16	ug/L		08/09/16 15:34	08/12/16 17:02	1
3-Nitroaniline	5.0	U	5.0	0.16	ug/L		08/09/16 15:34	08/12/16 17:02	1
4-Nitroaniline	5.0	U	5.0	0.50	ug/L		08/09/16 15:34	08/12/16 17:02	1
Nitrobenzene	1.0	U	1.0	0.10	ug/L		08/09/16 15:34	08/12/16 17:02	1
2-Nitrophenol	1.0	U	1.0	0.10	ug/L		08/09/16 15:34	08/12/16 17:02	1
4-Nitrophenol	8.0	U	8.0	4.0	ug/L		08/09/16 15:34	08/12/16 17:02	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.13	ug/L		08/09/16 15:34	08/12/16 17:02	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.37	ug/L		08/09/16 15:34	08/12/16 17:02	1
2,2'-oxybis[1-chloropropane]	1.0	U	1.0	0.10	ug/L		08/09/16 15:34	08/12/16 17:02	1
Pentachlorophenol	5.0	U	5.0	0.40	ug/L		08/09/16 15:34	08/12/16 17:02	1
Phenanthrene	0.20	U	0.20	0.10	ug/L		08/09/16 15:34	08/12/16 17:02	1
Phenol	**3.5**		1.0	0.13	ug/L		08/09/16 15:34	08/12/16 17:02	1
Pyrene	0.20	U	0.20	0.10	ug/L		08/09/16 15:34	08/12/16 17:02	1
2,4,5-Trichlorophenol	1.0	U	1.0	0.12	ug/L		08/09/16 15:34	08/12/16 17:02	1
2,4,6-Trichlorophenol	1.0	U	1.0	0.17	ug/L		08/09/16 15:34	08/12/16 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*28*	*X*	*31 - 107*	*08/09/16 15:34*	*08/12/16 17:02*	*1*
2-Fluorophenol	*27*		*18 - 112*	*08/09/16 15:34*	*08/12/16 17:02*	*1*
Nitrobenzene-d5 (Surr)	*33*	*X*	*37 - 103*	*08/09/16 15:34*	*08/12/16 17:02*	*1*
Phenol-d5 (Surr)	*26*		*20 - 113*	*08/09/16 15:34*	*08/12/16 17:02*	*1*
Terphenyl-d14 (Surr)	*39*		*22 - 121*	*08/09/16 15:34*	*08/12/16 17:02*	*1*
2,4,6-Tribromophenol (Surr)	*38*	*X*	*39 - 133*	*08/09/16 15:34*	*08/12/16 17:02*	*1*

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.050	U	0.050	0.023	mg/L			08/06/16 20:07	1
Sulfate	**20**		1.0	0.40	mg/L			08/17/16 12:51	1
Chloride	**39**		0.50	0.20	mg/L			08/17/16 12:51	1
Bromide	**0.29**	**J**	0.50	0.20	mg/L			08/17/16 12:51	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Client Sample ID: 1600780-MW-D

Lab Sample ID: 680-128400-17

Date Collected: 08/05/16 13:33
Date Received: 08/06/16 09:44

Matrix: Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	20	U	20	5.3	ug/L		08/08/16 18:02	08/11/16 00:40	1
Arsenic	**10**	**J**	20	6.2	ug/L		08/08/16 18:02	08/11/16 00:40	1
Beryllium	4.0	U	4.0	0.10	ug/L		08/08/16 18:02	08/11/16 00:40	1
Cadmium	5.0	U	5.0	1.0	ug/L		08/08/16 18:02	08/11/16 00:40	1
Calcium	**130000**	**B**	500	25	ug/L		08/08/16 18:02	08/11/16 00:40	1
Chromium	10	U	10	1.6	ug/L		08/08/16 18:02	08/11/16 00:40	1
Copper	**2.3**	**J**	20	1.8	ug/L		08/08/16 18:02	08/11/16 00:40	1
Iron	**3200**		50	17	ug/L		08/08/16 18:02	08/11/16 00:40	1
Lead	10	U	10	3.9	ug/L		08/08/16 18:02	08/11/16 00:40	1
Magnesium	**25000**		500	33	ug/L		08/08/16 18:02	08/11/16 00:40	1
Manganese	**900**		10	1.0	ug/L		08/08/16 18:02	08/11/16 00:40	1
Nickel	**5.4**	**J**	40	2.1	ug/L		08/08/16 18:02	08/11/16 00:40	1
Potassium	**780**	**J**	1000	17	ug/L		08/08/16 18:02	08/11/16 00:40	1
Selenium	20	U	20	9.9	ug/L		08/08/16 18:02	08/11/16 00:40	1
Silver	10	U	10	0.60	ug/L		08/08/16 18:02	08/11/16 00:40	1
Sodium	**84000**		1000	480	ug/L		08/08/16 18:02	08/11/16 00:40	1
Thallium	25	U	25	6.0	ug/L		08/08/16 18:02	08/11/16 00:40	1
Zinc	**7.0**	**J**	20	7.0	ug/L		08/08/16 18:02	08/11/16 00:40	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.080	ug/L		08/09/16 13:30	08/10/16 18:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**490**		5.0	5.0	mg/L			08/16/16 21:44	1
Bicarbonate Alkalinity as CaCO3	**490**		5.0	5.0	mg/L			08/16/16 21:44	1
Ammonia	**0.92**		0.25	0.10	mg/L			08/16/16 10:49	1
Phosphorus	**10**		1.0	0.41	mg/L		08/16/16 09:35	08/17/16 11:53	10

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**620**		10	10	mg/L			08/09/16 11:54	1
Sulfide	1.0	U	1.0	1.0	mg/L			08/11/16 09:15	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-445638/10
Matrix: Water
Analysis Batch: 445638

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	7.0	ug/L			08/15/16 11:38	1
Benzene	1.0	U	1.0	0.43	ug/L			08/15/16 11:38	1
Bromobenzene	1.0	U	1.0	0.50	ug/L			08/15/16 11:38	1
Bromochloromethane	1.0	U	1.0	0.45	ug/L			08/15/16 11:38	1
Bromodichloromethane	1.0	U	1.0	0.44	ug/L			08/15/16 11:38	1
Bromoform	1.0	U	1.0	0.43	ug/L			08/15/16 11:38	1
Bromomethane	5.0	U	5.0	2.5	ug/L			08/15/16 11:38	1
2-Butanone (MEK)	10	U	10	3.4	ug/L			08/15/16 11:38	1
Carbon disulfide	2.0	U	2.0	1.0	ug/L			08/15/16 11:38	1
Carbon tetrachloride	1.0	U	1.0	0.33	ug/L			08/15/16 11:38	1
Chlorobenzene	1.0	U	1.0	0.26	ug/L			08/15/16 11:38	1
Chloroethane	5.0	U	5.0	2.5	ug/L			08/15/16 11:38	1
Chloroform	1.0	U	1.0	0.50	ug/L			08/15/16 11:38	1
Chloromethane	1.0	U	1.0	0.40	ug/L			08/15/16 11:38	1
2-Chlorotoluene	1.0	U	1.0	0.27	ug/L			08/15/16 11:38	1
4-Chlorotoluene	1.0	U	1.0	0.45	ug/L			08/15/16 11:38	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.41	ug/L			08/15/16 11:38	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.40	ug/L			08/15/16 11:38	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			08/15/16 11:38	1
Dibromomethane	1.0	U	1.0	0.35	ug/L			08/15/16 11:38	1
Dichlorodifluoromethane	1.0	U	1.0	0.60	ug/L			08/15/16 11:38	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			08/15/16 11:38	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			08/15/16 11:38	1
1,1-Dichloroethene	1.0	U	1.0	0.36	ug/L			08/15/16 11:38	1
1,2-Dichloroethene, Total	2.0	U	2.0	0.37	ug/L			08/15/16 11:38	1
1,2-Dichloropropane	1.0	U	1.0	0.67	ug/L			08/15/16 11:38	1
1,3-Dichloropropane	1.0	U	1.0	0.34	ug/L			08/15/16 11:38	1
2,2-Dichloropropane	1.0	U	1.0	0.37	ug/L			08/15/16 11:38	1
1,1-Dichloropropene	1.0	U	1.0	0.34	ug/L			08/15/16 11:38	1
Ethylbenzene	1.0	U	1.0	0.33	ug/L			08/15/16 11:38	1
2-Hexanone	10	U	10	2.0	ug/L			08/15/16 11:38	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			08/15/16 11:38	1
Methylene Chloride	5.0	U	5.0	2.5	ug/L			08/15/16 11:38	1
4-Methyl-2-pentanone	10	U	10	2.1	ug/L			08/15/16 11:38	1
Methyl tert-butyl ether	10	U	10	0.30	ug/L			08/15/16 11:38	1
m-Xylene & p-Xylene	1.0	U	1.0	0.35	ug/L			08/15/16 11:38	1
n-Butylbenzene	1.0	U	1.0	0.47	ug/L			08/15/16 11:38	1
N-Propylbenzene	1.0	U	1.0	0.38	ug/L			08/15/16 11:38	1
o-Xylene	1.0	U	1.0	0.23	ug/L			08/15/16 11:38	1
p-Isopropyltoluene	1.0	U	1.0	0.48	ug/L			08/15/16 11:38	1
sec-Butylbenzene	1.0	U	1.0	0.42	ug/L			08/15/16 11:38	1
Styrene	1.0	U	1.0	0.27	ug/L			08/15/16 11:38	1
tert-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/15/16 11:38	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/15/16 11:38	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.62	ug/L			08/15/16 11:38	1
Tetrachloroethene	1.0	U	1.0	0.74	ug/L			08/15/16 11:38	1
Toluene	1.0	U	1.0	0.48	ug/L			08/15/16 11:38	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.37	ug/L			08/15/16 11:38	1

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

Lab Sample ID: MB 680-445638/10
Matrix: Water
Analysis Batch: 445638

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	1.0	U	1.0	0.42	ug/L			08/15/16 11:38	1
1,2,3-Trichlorobenzene	5.0	U	5.0	2.5	ug/L			08/15/16 11:38	1
1,1,1-Trichloroethane	1.0	U	1.0	0.37	ug/L			08/15/16 11:38	1
1,1,2-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/15/16 11:38	1
Trichloroethene	1.0	U	1.0	0.48	ug/L			08/15/16 11:38	1
Trichlorofluoromethane	1.0	U	1.0	0.42	ug/L			08/15/16 11:38	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.47	ug/L			08/15/16 11:38	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.31	ug/L			08/15/16 11:38	1
Vinyl acetate	2.0	U	2.0	0.81	ug/L			08/15/16 11:38	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			08/15/16 11:38	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			08/15/16 11:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/15/16 11:38*	*1*
Dibromofluoromethane (Surr)	*93*		*80 - 122*		*08/15/16 11:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*73 - 131*		*08/15/16 11:38*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*08/15/16 11:38*	*1*

Lab Sample ID: LCS 680-445638/5
Matrix: Water
Analysis Batch: 445638

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	324		ug/L		130	68 - 132
Benzene	50.0	53.5		ug/L		107	80 - 120
Bromobenzene	50.0	45.3		ug/L		91	71 - 124
Bromochloromethane	50.0	53.5		ug/L		107	80 - 120
Bromodichloromethane	50.0	53.2		ug/L		106	80 - 120
Bromoform	50.0	52.0		ug/L		104	52 - 122
Bromomethane	50.0	45.3		ug/L		91	43 - 146
2-Butanone (MEK)	250	320	*	ug/L		128	79 - 125
Carbon disulfide	50.0	55.2		ug/L		110	77 - 129
Carbon tetrachloride	50.0	57.7		ug/L		115	67 - 125
Chlorobenzene	50.0	45.0		ug/L		90	80 - 120
Chloroethane	50.0	40.0		ug/L		80	48 - 145
Chloroform	50.0	53.8		ug/L		108	80 - 120
Chloromethane	50.0	54.9		ug/L		110	76 - 149
2-Chlorotoluene	50.0	45.2		ug/L		90	80 - 120
4-Chlorotoluene	50.0	44.6		ug/L		89	80 - 120
cis-1,2-Dichloroethene	50.0	55.7		ug/L		111	80 - 120
cis-1,3-Dichloropropene	50.0	54.2		ug/L		108	80 - 129
Dibromochloromethane	50.0	54.1		ug/L		108	68 - 120
Dibromomethane	50.0	53.8		ug/L		108	80 - 120
Dichlorodifluoromethane	50.0	50.1		ug/L		100	70 - 137
1,1-Dichloroethane	50.0	53.2		ug/L		106	80 - 120
1,2-Dichloroethane	50.0	51.0		ug/L		102	72 - 128
1,1-Dichloroethene	50.0	59.4		ug/L		119	80 - 120
1,2-Dichloroethene, Total	100	110		ug/L		110	80 - 120

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

Lab Sample ID: LCS 680-445638/5
Matrix: Water
Analysis Batch: 445638

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	50.0	55.0		ug/L		110	80 - 120
1,3-Dichloropropane	50.0	51.8		ug/L		104	80 - 120
2,2-Dichloropropane	50.0	57.2		ug/L		114	80 - 135
1,1-Dichloropropene	50.0	54.6		ug/L		109	80 - 120
Ethylbenzene	50.0	47.9		ug/L		96	80 - 120
2-Hexanone	250	315		ug/L		126	80 - 131
Isopropylbenzene	50.0	50.2		ug/L		100	79 - 126
Methylene Chloride	50.0	53.7		ug/L		107	80 - 120
4-Methyl-2-pentanone	250	310		ug/L		124	80 - 134
Methyl tert-butyl ether	50.0	53.5		ug/L		107	80 - 122
m-Xylene & p-Xylene	50.0	47.6		ug/L		95	80 - 120
n-Butylbenzene	50.0	49.6		ug/L		99	75 - 132
N-Propylbenzene	50.0	47.9		ug/L		96	80 - 125
o-Xylene	50.0	47.0		ug/L		94	80 - 120
p-Isopropyltoluene	50.0	50.6		ug/L		101	80 - 120
sec-Butylbenzene	50.0	49.8		ug/L		100	80 - 120
Styrene	50.0	47.8		ug/L		96	80 - 126
tert-Butylbenzene	50.0	48.7		ug/L		97	80 - 120
1,1,1,2-Tetrachloroethane	50.0	47.8		ug/L		96	73 - 124
1,1,2,2-Tetrachloroethane	50.0	46.4		ug/L		93	76 - 126
Tetrachloroethene	50.0	57.0		ug/L		114	71 - 123
Toluene	50.0	54.4		ug/L		109	80 - 120
trans-1,2-Dichloroethene	50.0	53.8		ug/L		108	80 - 120
trans-1,3-Dichloropropene	50.0	53.5		ug/L		107	80 - 128
1,2,3-Trichlorobenzene	50.0	48.1		ug/L		96	70 - 125
1,1,1-Trichloroethane	50.0	57.5		ug/L		115	80 - 120
1,1,2-Trichloroethane	50.0	51.4		ug/L		103	80 - 120
Trichloroethene	50.0	56.2		ug/L		112	80 - 120
Trichlorofluoromethane	50.0	50.2		ug/L		100	58 - 127
1,2,4-Trimethylbenzene	50.0	47.7		ug/L		95	80 - 120
1,3,5-Trimethylbenzene	50.0	47.9		ug/L		96	80 - 120
Vinyl acetate	100	117		ug/L		117	74 - 156
Vinyl chloride	50.0	57.5		ug/L		115	80 - 129
Xylenes, Total	100	94.6		ug/L		95	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*107*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*106*		*73 - 131*
Toluene-d8 (Surr)	*96*		*80 - 120*

Lab Sample ID: LCSD 680-445638/6
Matrix: Water
Analysis Batch: 445638

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	315		ug/L		126	68 - 132	3	30
Benzene	50.0	46.9		ug/L		94	80 - 120	13	20

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

Lab Sample ID: LCSD 680-445638/6
Matrix: Water
Analysis Batch: 445638

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromobenzene	50.0	47.0		ug/L		94	71 - 124	4	20
Bromochloromethane	50.0	46.7		ug/L		93	80 - 120	14	20
Bromodichloromethane	50.0	48.2		ug/L		96	80 - 120	10	20
Bromoform	50.0	56.4		ug/L		113	52 - 122	8	20
Bromomethane	50.0	36.7	*	ug/L		73	43 - 146	21	20
2-Butanone (MEK)	250	308		ug/L		123	79 - 125	4	20
Carbon disulfide	50.0	46.6		ug/L		93	77 - 129	17	20
Carbon tetrachloride	50.0	49.6		ug/L		99	67 - 125	15	20
Chlorobenzene	50.0	46.3		ug/L		93	80 - 120	3	20
Chloroethane	50.0	31.9	*	ug/L		64	48 - 145	23	20
Chloroform	50.0	48.4		ug/L		97	80 - 120	11	20
Chloromethane	50.0	46.4		ug/L		93	76 - 149	17	30
2-Chlorotoluene	50.0	46.2		ug/L		92	80 - 120	2	20
4-Chlorotoluene	50.0	44.9		ug/L		90	80 - 120	1	20
cis-1,2-Dichloroethene	50.0	49.6		ug/L		99	80 - 120	12	20
cis-1,3-Dichloropropene	50.0	50.3		ug/L		101	80 - 129	7	20
Dibromochloromethane	50.0	50.1		ug/L		100	68 - 120	8	20
Dibromomethane	50.0	49.0		ug/L		98	80 - 120	9	20
Dichlorodifluoromethane	50.0	42.8		ug/L		86	70 - 137	16	40
1,1-Dichloroethane	50.0	46.8		ug/L		94	80 - 120	13	20
1,2-Dichloroethane	50.0	48.0		ug/L		96	72 - 128	6	50
1,1-Dichloroethene	50.0	50.0		ug/L		100	80 - 120	17	20
1,2-Dichloroethene, Total	100	98.5		ug/L		98	80 - 120	11	20
1,2-Dichloropropane	50.0	49.7		ug/L		99	80 - 120	10	20
1,3-Dichloropropane	50.0	48.0		ug/L		96	80 - 120	8	20
2,2-Dichloropropane	50.0	56.4		ug/L		113	80 - 135	1	20
1,1-Dichloropropene	50.0	48.8		ug/L		98	80 - 120	11	20
Ethylbenzene	50.0	48.1		ug/L		96	80 - 120	0	20
2-Hexanone	250	299		ug/L		120	80 - 131	5	20
Isopropylbenzene	50.0	50.2		ug/L		100	79 - 126	0	20
Methylene Chloride	50.0	42.9	*	ug/L		86	80 - 120	22	20
4-Methyl-2-pentanone	250	294		ug/L		118	80 - 134	5	20
Methyl tert-butyl ether	50.0	50.1		ug/L		100	80 - 122	6	20
m-Xylene & p-Xylene	50.0	48.2		ug/L		96	80 - 120	1	20
n-Butylbenzene	50.0	49.3		ug/L		99	75 - 132	1	20
N-Propylbenzene	50.0	48.0		ug/L		96	80 - 125	0	20
o-Xylene	50.0	47.6		ug/L		95	80 - 120	1	30
p-Isopropyltoluene	50.0	50.6		ug/L		101	80 - 120	0	20
sec-Butylbenzene	50.0	50.0		ug/L		100	80 - 120	0	20
Styrene	50.0	49.4		ug/L		99	80 - 126	3	20
tert-Butylbenzene	50.0	49.2		ug/L		98	80 - 120	1	20
1,1,1,2-Tetrachloroethane	50.0	49.0		ug/L		98	73 - 124	3	20
1,1,2,2-Tetrachloroethane	50.0	50.1		ug/L		100	76 - 126	8	20
Tetrachloroethene	50.0	49.5		ug/L		99	71 - 123	14	20
Toluene	50.0	47.9		ug/L		96	80 - 120	13	20
trans-1,2-Dichloroethene	50.0	48.9		ug/L		98	80 - 120	10	20
trans-1,3-Dichloropropene	50.0	50.4		ug/L		101	80 - 128	6	30
1,2,3-Trichlorobenzene	50.0	50.2		ug/L		100	70 - 125	4	20

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

Lab Sample ID: LCSD 680-445638/6
Matrix: Water
Analysis Batch: 445638

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	49.9		ug/L		100	80 - 120	14	20
1,1,2-Trichloroethane	50.0	46.6		ug/L		93	80 - 120	10	20
Trichloroethene	50.0	48.7		ug/L		97	80 - 120	14	20
Trichlorofluoromethane	50.0	53.8		ug/L		108	58 - 127	7	20
1,2,4-Trimethylbenzene	50.0	47.5		ug/L		95	80 - 120	0	20
1,3,5-Trimethylbenzene	50.0	49.0		ug/L		98	80 - 120	2	20
Vinyl acetate	100	116		ug/L		116	74 - 156	1	20
Vinyl chloride	50.0	47.9		ug/L		96	80 - 129	18	20
Xylenes, Total	100	95.8		ug/L		96	80 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*99*		*73 - 131*
Toluene-d8 (Surr)	*96*		*80 - 120*

Lab Sample ID: MB 680-445889/9
Matrix: Water
Analysis Batch: 445889

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	7.0	ug/L			08/16/16 14:11	1
Benzene	1.0	U	1.0	0.43	ug/L			08/16/16 14:11	1
Bromobenzene	1.0	U	1.0	0.50	ug/L			08/16/16 14:11	1
Bromochloromethane	1.0	U	1.0	0.45	ug/L			08/16/16 14:11	1
Bromodichloromethane	1.0	U	1.0	0.44	ug/L			08/16/16 14:11	1
Bromoform	1.0	U	1.0	0.43	ug/L			08/16/16 14:11	1
Bromomethane	5.0	U	5.0	2.5	ug/L			08/16/16 14:11	1
2-Butanone (MEK)	10	U	10	3.4	ug/L			08/16/16 14:11	1
Carbon disulfide	2.0	U	2.0	1.0	ug/L			08/16/16 14:11	1
Carbon tetrachloride	1.0	U	1.0	0.33	ug/L			08/16/16 14:11	1
Chlorobenzene	1.0	U	1.0	0.26	ug/L			08/16/16 14:11	1
Chloroethane	5.0	U	5.0	2.5	ug/L			08/16/16 14:11	1
Chloroform	1.0	U	1.0	0.50	ug/L			08/16/16 14:11	1
Chloromethane	1.0	U	1.0	0.40	ug/L			08/16/16 14:11	1
2-Chlorotoluene	1.0	U	1.0	0.27	ug/L			08/16/16 14:11	1
4-Chlorotoluene	1.0	U	1.0	0.45	ug/L			08/16/16 14:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.41	ug/L			08/16/16 14:11	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.40	ug/L			08/16/16 14:11	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			08/16/16 14:11	1
Dibromomethane	1.0	U	1.0	0.35	ug/L			08/16/16 14:11	1
Dichlorodifluoromethane	1.0	U	1.0	0.60	ug/L			08/16/16 14:11	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			08/16/16 14:11	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			08/16/16 14:11	1
1,1-Dichloroethene	1.0	U	1.0	0.36	ug/L			08/16/16 14:11	1
1,2-Dichloroethene, Total	2.0	U	2.0	0.37	ug/L			08/16/16 14:11	1
1,2-Dichloropropane	1.0	U	1.0	0.67	ug/L			08/16/16 14:11	1
1,3-Dichloropropane	1.0	U	1.0	0.34	ug/L			08/16/16 14:11	1

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

Lab Sample ID: MB 680-445889/9
Matrix: Water
Analysis Batch: 445889

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	1.0	U	1.0	0.37	ug/L			08/16/16 14:11	1
1,1-Dichloropropene	1.0	U	1.0	0.34	ug/L			08/16/16 14:11	1
Ethylbenzene	1.0	U	1.0	0.33	ug/L			08/16/16 14:11	1
2-Hexanone	10	U	10	2.0	ug/L			08/16/16 14:11	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			08/16/16 14:11	1
Methylene Chloride	5.0	U	5.0	2.5	ug/L			08/16/16 14:11	1
4-Methyl-2-pentanone	10	U	10	2.1	ug/L			08/16/16 14:11	1
Methyl tert-butyl ether	10	U	10	0.30	ug/L			08/16/16 14:11	1
m-Xylene & p-Xylene	1.0	U	1.0	0.35	ug/L			08/16/16 14:11	1
n-Butylbenzene	1.0	U	1.0	0.47	ug/L			08/16/16 14:11	1
N-Propylbenzene	1.0	U	1.0	0.38	ug/L			08/16/16 14:11	1
o-Xylene	1.0	U	1.0	0.23	ug/L			08/16/16 14:11	1
p-Isopropyltoluene	1.0	U	1.0	0.48	ug/L			08/16/16 14:11	1
sec-Butylbenzene	1.0	U	1.0	0.42	ug/L			08/16/16 14:11	1
Styrene	1.0	U	1.0	0.27	ug/L			08/16/16 14:11	1
tert-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/16/16 14:11	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/16/16 14:11	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.62	ug/L			08/16/16 14:11	1
Tetrachloroethene	1.0	U	1.0	0.74	ug/L			08/16/16 14:11	1
Toluene	1.0	U	1.0	0.48	ug/L			08/16/16 14:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.37	ug/L			08/16/16 14:11	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.42	ug/L			08/16/16 14:11	1
1,2,3-Trichlorobenzene	5.0	U	5.0	2.5	ug/L			08/16/16 14:11	1
1,1,1-Trichloroethane	1.0	U	1.0	0.37	ug/L			08/16/16 14:11	1
1,1,2-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/16/16 14:11	1
Trichloroethene	1.0	U	1.0	0.48	ug/L			08/16/16 14:11	1
Trichlorofluoromethane	1.0	U	1.0	0.42	ug/L			08/16/16 14:11	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.47	ug/L			08/16/16 14:11	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.31	ug/L			08/16/16 14:11	1
Vinyl acetate	2.0	U	2.0	0.81	ug/L			08/16/16 14:11	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			08/16/16 14:11	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			08/16/16 14:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/16/16 14:11*	*1*
Dibromofluoromethane (Surr)	*93*		*80 - 122*		*08/16/16 14:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*73 - 131*		*08/16/16 14:11*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*08/16/16 14:11*	*1*

Lab Sample ID: LCS 680-445889/4
Matrix: Water
Analysis Batch: 445889

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	253		ug/L		101	68 - 132
Benzene	50.0	48.1		ug/L		96	80 - 120
Bromobenzene	50.0	47.5		ug/L		95	71 - 124
Bromochloromethane	50.0	47.8		ug/L		96	80 - 120

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

Lab Sample ID: LCS 680-445889/4
Matrix: Water
Analysis Batch: 445889

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	50.0	48.6		ug/L		97	80 - 120
Bromoform	50.0	55.5		ug/L		111	52 - 122
Bromomethane	50.0	49.3		ug/L		99	43 - 146
2-Butanone (MEK)	250	256		ug/L		102	79 - 125
Carbon disulfide	50.0	48.2		ug/L		96	77 - 129
Carbon tetrachloride	50.0	51.9		ug/L		104	67 - 125
Chlorobenzene	50.0	46.8		ug/L		94	80 - 120
Chloroethane	50.0	48.2		ug/L		96	48 - 145
Chloroform	50.0	49.1		ug/L		98	80 - 120
Chloromethane	50.0	51.2		ug/L		102	76 - 149
2-Chlorotoluene	50.0	47.5		ug/L		95	80 - 120
4-Chlorotoluene	50.0	46.6		ug/L		93	80 - 120
cis-1,2-Dichloroethene	50.0	51.2		ug/L		102	80 - 120
cis-1,3-Dichloropropene	50.0	49.4		ug/L		99	80 - 129
Dibromochloromethane	50.0	48.9		ug/L		98	68 - 120
Dibromomethane	50.0	46.7		ug/L		93	80 - 120
Dichlorodifluoromethane	50.0	43.3		ug/L		87	70 - 137
1,1-Dichloroethane	50.0	46.1		ug/L		92	80 - 120
1,2-Dichloroethane	50.0	47.4		ug/L		95	72 - 128
1,1-Dichloroethene	50.0	52.0		ug/L		104	80 - 120
1,2-Dichloroethene, Total	100	100		ug/L		100	80 - 120
1,2-Dichloropropane	50.0	49.4		ug/L		99	80 - 120
1,3-Dichloropropane	50.0	46.0		ug/L		92	80 - 120
2,2-Dichloropropane	50.0	58.6		ug/L		117	80 - 135
1,1-Dichloropropene	50.0	48.8		ug/L		98	80 - 120
Ethylbenzene	50.0	49.9		ug/L		100	80 - 120
2-Hexanone	250	248		ug/L		99	80 - 131
Isopropylbenzene	50.0	52.1		ug/L		104	79 - 126
Methylene Chloride	50.0	50.0		ug/L		100	80 - 120
4-Methyl-2-pentanone	250	248		ug/L		99	80 - 134
Methyl tert-butyl ether	50.0	47.4		ug/L		95	80 - 122
m-Xylene & p-Xylene	50.0	50.8		ug/L		102	80 - 120
n-Butylbenzene	50.0	50.3		ug/L		101	75 - 132
N-Propylbenzene	50.0	50.0		ug/L		100	80 - 125
o-Xylene	50.0	48.5		ug/L		97	80 - 120
p-Isopropyltoluene	50.0	52.1		ug/L		104	80 - 120
sec-Butylbenzene	50.0	50.3		ug/L		101	80 - 120
Styrene	50.0	50.1		ug/L		100	80 - 126
tert-Butylbenzene	50.0	50.3		ug/L		101	80 - 120
1,1,1,2-Tetrachloroethane	50.0	50.7		ug/L		101	73 - 124
1,1,2,2-Tetrachloroethane	50.0	45.8		ug/L		92	76 - 126
Tetrachloroethene	50.0	50.7		ug/L		101	71 - 123
Toluene	50.0	48.4		ug/L		97	80 - 120
trans-1,2-Dichloroethene	50.0	48.7		ug/L		97	80 - 120
trans-1,3-Dichloropropene	50.0	49.8		ug/L		100	80 - 128
1,2,3-Trichlorobenzene	50.0	48.2		ug/L		96	70 - 125
1,1,1-Trichloroethane	50.0	52.6		ug/L		105	80 - 120
1,1,2-Trichloroethane	50.0	45.2		ug/L		90	80 - 120

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

Lab Sample ID: LCS 680-445889/4
Matrix: Water
Analysis Batch: 445889

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	50.0	50.8		ug/L		102	80 - 120
Trichlorofluoromethane	50.0	53.4		ug/L		107	58 - 127
1,2,4-Trimethylbenzene	50.0	49.0		ug/L		98	80 - 120
1,3,5-Trimethylbenzene	50.0	50.3		ug/L		101	80 - 120
Vinyl acetate	100	106		ug/L		106	74 - 156
Vinyl chloride	50.0	50.6		ug/L		101	80 - 129
Xylenes, Total	100	99.3		ug/L		99	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*98*		*73 - 131*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: LCSD 680-445889/5
Matrix: Water
Analysis Batch: 445889

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	261		ug/L		105	68 - 132	3	30
Benzene	50.0	47.4		ug/L		95	80 - 120	1	20
Bromobenzene	50.0	46.7		ug/L		93	71 - 124	2	20
Bromochloromethane	50.0	46.8		ug/L		94	80 - 120	2	20
Bromodichloromethane	50.0	48.0		ug/L		96	80 - 120	1	20
Bromoform	50.0	54.4		ug/L		109	52 - 122	2	20
Bromomethane	50.0	50.2		ug/L		100	43 - 146	2	20
2-Butanone (MEK)	250	248		ug/L		99	79 - 125	3	20
Carbon disulfide	50.0	47.5		ug/L		95	77 - 129	1	20
Carbon tetrachloride	50.0	51.2		ug/L		102	67 - 125	1	20
Chlorobenzene	50.0	46.6		ug/L		93	80 - 120	0	20
Chloroethane	50.0	48.7		ug/L		97	48 - 145	1	20
Chloroform	50.0	47.5		ug/L		95	80 - 120	3	20
Chloromethane	50.0	48.7		ug/L		97	76 - 149	5	30
2-Chlorotoluene	50.0	46.8		ug/L		94	80 - 120	1	20
4-Chlorotoluene	50.0	45.5		ug/L		91	80 - 120	2	20
cis-1,2-Dichloroethene	50.0	49.2		ug/L		98	80 - 120	4	20
cis-1,3-Dichloropropene	50.0	49.3		ug/L		99	80 - 129	0	20
Dibromochloromethane	50.0	48.7		ug/L		97	68 - 120	0	20
Dibromomethane	50.0	47.3		ug/L		95	80 - 120	1	20
Dichlorodifluoromethane	50.0	42.0		ug/L		84	70 - 137	3	40
1,1-Dichloroethane	50.0	45.9		ug/L		92	80 - 120	1	20
1,2-Dichloroethane	50.0	45.2		ug/L		90	72 - 128	5	50
1,1-Dichloroethene	50.0	50.3		ug/L		101	80 - 120	3	20
1,2-Dichloroethene, Total	100	96.4		ug/L		96	80 - 120	4	20
1,2-Dichloropropane	50.0	48.7		ug/L		97	80 - 120	1	20
1,3-Dichloropropane	50.0	46.0		ug/L		92	80 - 120	0	20
2,2-Dichloropropane	50.0	56.0		ug/L		112	80 - 135	4	20
1,1-Dichloropropene	50.0	47.8		ug/L		96	80 - 120	2	20

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

Lab Sample ID: LCSD 680-445889/5
Matrix: Water
Analysis Batch: 445889

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	50.0	48.7		ug/L		97	80 - 120	2	20
2-Hexanone	250	248		ug/L		99	80 - 131	0	20
Isopropylbenzene	50.0	51.0		ug/L		102	79 - 126	2	20
Methylene Chloride	50.0	51.5		ug/L		103	80 - 120	3	20
4-Methyl-2-pentanone	250	246		ug/L		98	80 - 134	1	20
Methyl tert-butyl ether	50.0	47.3		ug/L		95	80 - 122	0	20
m-Xylene & p-Xylene	50.0	48.8		ug/L		98	80 - 120	4	20
n-Butylbenzene	50.0	48.5		ug/L		97	75 - 132	4	20
N-Propylbenzene	50.0	48.1		ug/L		96	80 - 125	4	20
o-Xylene	50.0	48.3		ug/L		97	80 - 120	1	30
p-Isopropyltoluene	50.0	50.3		ug/L		101	80 - 120	4	20
sec-Butylbenzene	50.0	49.0		ug/L		98	80 - 120	3	20
Styrene	50.0	49.1		ug/L		98	80 - 126	2	20
tert-Butylbenzene	50.0	48.3		ug/L		97	80 - 120	4	20
1,1,1,2-Tetrachloroethane	50.0	50.1		ug/L		100	73 - 124	1	20
1,1,2,2-Tetrachloroethane	50.0	45.7		ug/L		91	76 - 126	0	20
Tetrachloroethene	50.0	49.0		ug/L		98	71 - 123	3	20
Toluene	50.0	47.4		ug/L		95	80 - 120	2	20
trans-1,2-Dichloroethene	50.0	47.3		ug/L		95	80 - 120	3	20
trans-1,3-Dichloropropene	50.0	49.1		ug/L		98	80 - 128	1	30
1,2,3-Trichlorobenzene	50.0	47.2		ug/L		94	70 - 125	2	20
1,1,1-Trichloroethane	50.0	50.7		ug/L		101	80 - 120	4	20
1,1,2-Trichloroethane	50.0	45.1		ug/L		90	80 - 120	0	20
Trichloroethene	50.0	49.7		ug/L		99	80 - 120	2	20
Trichlorofluoromethane	50.0	56.6		ug/L		113	58 - 127	6	20
1,2,4-Trimethylbenzene	50.0	48.1		ug/L		96	80 - 120	2	20
1,3,5-Trimethylbenzene	50.0	48.3		ug/L		97	80 - 120	4	20
Vinyl acetate	100	106		ug/L		106	74 - 156	0	20
Vinyl chloride	50.0	48.8		ug/L		98	80 - 129	4	20
Xylenes, Total	100	97.1		ug/L		97	80 - 120	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*96*		*73 - 131*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: MB 680-446181/9
Matrix: Water
Analysis Batch: 446181

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	7.0	ug/L			08/17/16 21:52	1
Benzene	1.0	U	1.0	0.43	ug/L			08/17/16 21:52	1
Bromobenzene	1.0	U	1.0	0.50	ug/L			08/17/16 21:52	1
Bromochloromethane	1.0	U	1.0	0.45	ug/L			08/17/16 21:52	1
Bromodichloromethane	1.0	U	1.0	0.44	ug/L			08/17/16 21:52	1
Bromoform	1.0	U	1.0	0.43	ug/L			08/17/16 21:52	1

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

Lab Sample ID: MB 680-446181/9
Matrix: Water
Analysis Batch: 446181

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	5.0	U	5.0	2.5	ug/L			08/17/16 21:52	1
2-Butanone (MEK)	10	U	10	3.4	ug/L			08/17/16 21:52	1
Carbon disulfide	2.0	U	2.0	1.0	ug/L			08/17/16 21:52	1
Carbon tetrachloride	1.0	U	1.0	0.33	ug/L			08/17/16 21:52	1
Chlorobenzene	1.0	U	1.0	0.26	ug/L			08/17/16 21:52	1
Chloroethane	5.0	U	5.0	2.5	ug/L			08/17/16 21:52	1
Chloroform	1.0	U	1.0	0.50	ug/L			08/17/16 21:52	1
Chloromethane	1.0	U	1.0	0.40	ug/L			08/17/16 21:52	1
2-Chlorotoluene	1.0	U	1.0	0.27	ug/L			08/17/16 21:52	1
4-Chlorotoluene	1.0	U	1.0	0.45	ug/L			08/17/16 21:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.41	ug/L			08/17/16 21:52	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.40	ug/L			08/17/16 21:52	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			08/17/16 21:52	1
Dibromomethane	1.0	U	1.0	0.35	ug/L			08/17/16 21:52	1
Dichlorodifluoromethane	1.0	U	1.0	0.60	ug/L			08/17/16 21:52	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			08/17/16 21:52	1
1,2-Dichloroethane	1.0	U	1.0	0.50	ug/L			08/17/16 21:52	1
1,1-Dichloroethene	1.0	U	1.0	0.36	ug/L			08/17/16 21:52	1
1,2-Dichloroethene, Total	2.0	U	2.0	0.37	ug/L			08/17/16 21:52	1
1,2-Dichloropropane	1.0	U	1.0	0.67	ug/L			08/17/16 21:52	1
1,3-Dichloropropane	1.0	U	1.0	0.34	ug/L			08/17/16 21:52	1
2,2-Dichloropropane	1.0	U	1.0	0.37	ug/L			08/17/16 21:52	1
1,1-Dichloropropene	1.0	U	1.0	0.34	ug/L			08/17/16 21:52	1
Ethylbenzene	1.0	U	1.0	0.33	ug/L			08/17/16 21:52	1
2-Hexanone	10	U	10	2.0	ug/L			08/17/16 21:52	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			08/17/16 21:52	1
Methylene Chloride	5.0	U	5.0	2.5	ug/L			08/17/16 21:52	1
4-Methyl-2-pentanone	10	U	10	2.1	ug/L			08/17/16 21:52	1
Methyl tert-butyl ether	10	U	10	0.30	ug/L			08/17/16 21:52	1
m-Xylene & p-Xylene	1.0	U	1.0	0.35	ug/L			08/17/16 21:52	1
n-Butylbenzene	1.0	U	1.0	0.47	ug/L			08/17/16 21:52	1
N-Propylbenzene	1.0	U	1.0	0.38	ug/L			08/17/16 21:52	1
o-Xylene	1.0	U	1.0	0.23	ug/L			08/17/16 21:52	1
p-Isopropyltoluene	1.0	U	1.0	0.48	ug/L			08/17/16 21:52	1
sec-Butylbenzene	1.0	U	1.0	0.42	ug/L			08/17/16 21:52	1
Styrene	1.0	U	1.0	0.27	ug/L			08/17/16 21:52	1
tert-Butylbenzene	1.0	U	1.0	0.45	ug/L			08/17/16 21:52	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			08/17/16 21:52	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.62	ug/L			08/17/16 21:52	1
Tetrachloroethene	1.0	U	1.0	0.74	ug/L			08/17/16 21:52	1
Toluene	1.0	U	1.0	0.48	ug/L			08/17/16 21:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.37	ug/L			08/17/16 21:52	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.42	ug/L			08/17/16 21:52	1
1,2,3-Trichlorobenzene	5.0	U	5.0	2.5	ug/L			08/17/16 21:52	1
1,1,1-Trichloroethane	1.0	U	1.0	0.37	ug/L			08/17/16 21:52	1
1,1,2-Trichloroethane	1.0	U	1.0	0.33	ug/L			08/17/16 21:52	1
Trichloroethene	1.0	U	1.0	0.48	ug/L			08/17/16 21:52	1
Trichlorofluoromethane	1.0	U	1.0	0.42	ug/L			08/17/16 21:52	1

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

Lab Sample ID: MB 680-446181/9
Matrix: Water
Analysis Batch: 446181

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	1.0	U	1.0	0.47	ug/L			08/17/16 21:52	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.31	ug/L			08/17/16 21:52	1
Vinyl acetate	2.0	U	2.0	0.81	ug/L			08/17/16 21:52	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			08/17/16 21:52	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			08/17/16 21:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*08/17/16 21:52*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 122*		*08/17/16 21:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*73 - 131*		*08/17/16 21:52*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*08/17/16 21:52*	*1*

Lab Sample ID: LCS 680-446181/4
Matrix: Water
Analysis Batch: 446181

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	241		ug/L		96	68 - 132
Benzene	50.0	51.7		ug/L		103	80 - 120
Bromobenzene	50.0	53.0		ug/L		106	71 - 124
Bromochloromethane	50.0	53.2		ug/L		106	80 - 120
Bromodichloromethane	50.0	58.6		ug/L		117	80 - 120
Bromoform	50.0	47.9		ug/L		96	52 - 122
Bromomethane	50.0	58.9		ug/L		118	43 - 146
2-Butanone (MEK)	250	228		ug/L		91	79 - 125
Carbon disulfide	50.0	53.6		ug/L		107	77 - 129
Carbon tetrachloride	50.0	57.2		ug/L		114	67 - 125
Chlorobenzene	50.0	51.9		ug/L		104	80 - 120
Chloroethane	50.0	59.1		ug/L		118	48 - 145
Chloroform	50.0	54.2		ug/L		108	80 - 120
Chloromethane	50.0	50.2		ug/L		100	76 - 149
2-Chlorotoluene	50.0	52.4		ug/L		105	80 - 120
4-Chlorotoluene	50.0	52.5		ug/L		105	80 - 120
cis-1,2-Dichloroethene	50.0	55.9		ug/L		112	80 - 120
cis-1,3-Dichloropropene	50.0	61.6		ug/L		123	80 - 129
Dibromochloromethane	50.0	48.6		ug/L		97	68 - 120
Dibromomethane	50.0	53.9		ug/L		108	80 - 120
Dichlorodifluoromethane	50.0	45.6		ug/L		91	70 - 137
1,1-Dichloroethane	50.0	54.4		ug/L		109	80 - 120
1,2-Dichloroethane	50.0	54.1		ug/L		108	72 - 128
1,1-Dichloroethene	50.0	55.5		ug/L		111	80 - 120
1,2-Dichloroethene, Total	100	110		ug/L		110	80 - 120
1,2-Dichloropropane	50.0	54.0		ug/L		108	80 - 120
1,3-Dichloropropane	50.0	53.8		ug/L		108	80 - 120
2,2-Dichloropropane	50.0	67.0		ug/L		134	80 - 135
1,1-Dichloropropene	50.0	53.5		ug/L		107	80 - 120
Ethylbenzene	50.0	51.8		ug/L		104	80 - 120
2-Hexanone	250	238		ug/L		95	80 - 131

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

Lab Sample ID: LCS 680-446181/4
Matrix: Water
Analysis Batch: 446181

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	50.0	53.3		ug/L		107	79 - 126
Methylene Chloride	50.0	52.8		ug/L		106	80 - 120
4-Methyl-2-pentanone	250	240		ug/L		96	80 - 134
Methyl tert-butyl ether	50.0	52.6		ug/L		105	80 - 122
m-Xylene & p-Xylene	50.0	53.1		ug/L		106	80 - 120
n-Butylbenzene	50.0	54.3		ug/L		109	75 - 132
N-Propylbenzene	50.0	53.0		ug/L		106	80 - 125
o-Xylene	50.0	52.9		ug/L		106	80 - 120
p-Isopropyltoluene	50.0	52.0		ug/L		104	80 - 120
sec-Butylbenzene	50.0	51.8		ug/L		104	80 - 120
Styrene	50.0	54.2		ug/L		108	80 - 126
tert-Butylbenzene	50.0	52.1		ug/L		104	80 - 120
1,1,1,2-Tetrachloroethane	50.0	56.6		ug/L		113	73 - 124
1,1,2,2-Tetrachloroethane	50.0	50.4		ug/L		101	76 - 126
Tetrachloroethene	50.0	53.3		ug/L		107	71 - 123
Toluene	50.0	53.0		ug/L		106	80 - 120
trans-1,2-Dichloroethene	50.0	53.9		ug/L		108	80 - 120
trans-1,3-Dichloropropene	50.0	61.6		ug/L		123	80 - 128
1,2,3-Trichlorobenzene	50.0	49.1		ug/L		98	70 - 125
1,1,1-Trichloroethane	50.0	55.2		ug/L		110	80 - 120
1,1,2-Trichloroethane	50.0	52.0		ug/L		104	80 - 120
Trichloroethene	50.0	52.3		ug/L		105	80 - 120
Trichlorofluoromethane	50.0	57.4		ug/L		115	58 - 127
1,2,4-Trimethylbenzene	50.0	53.0		ug/L		106	80 - 120
1,3,5-Trimethylbenzene	50.0	52.5		ug/L		105	80 - 120
Vinyl acetate	100	132		ug/L		132	74 - 156
Vinyl chloride	50.0	54.2		ug/L		108	80 - 129
Xylenes, Total	100	106		ug/L		106	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*113*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*108*		*73 - 131*
Toluene-d8 (Surr)	*106*		*80 - 120*

Lab Sample ID: LCSD 680-446181/5
Matrix: Water
Analysis Batch: 446181

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	233		ug/L		93	68 - 132	3	30
Benzene	50.0	50.0		ug/L		100	80 - 120	3	20
Bromobenzene	50.0	51.0		ug/L		102	71 - 124	4	20
Bromochloromethane	50.0	51.1		ug/L		102	80 - 120	4	20
Bromodichloromethane	50.0	57.3		ug/L		115	80 - 120	2	20
Bromoform	50.0	46.0		ug/L		92	52 - 122	4	20
Bromomethane	50.0	58.4		ug/L		117	43 - 146	1	20
2-Butanone (MEK)	250	225		ug/L		90	79 - 125	1	20

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

Lab Sample ID: LCSD 680-446181/5
Matrix: Water
Analysis Batch: 446181

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon disulfide	50.0	51.9		ug/L		104	77 - 129	3	20
Carbon tetrachloride	50.0	55.1		ug/L		110	67 - 125	4	20
Chlorobenzene	50.0	49.3		ug/L		99	80 - 120	5	20
Chloroethane	50.0	56.4		ug/L		113	48 - 145	5	20
Chloroform	50.0	52.5		ug/L		105	80 - 120	3	20
Chloromethane	50.0	46.6		ug/L		93	76 - 149	7	30
2-Chlorotoluene	50.0	50.3		ug/L		101	80 - 120	4	20
4-Chlorotoluene	50.0	51.4		ug/L		103	80 - 120	2	20
cis-1,2-Dichloroethene	50.0	53.4		ug/L		107	80 - 120	4	20
cis-1,3-Dichloropropene	50.0	59.0		ug/L		118	80 - 129	4	20
Dibromochloromethane	50.0	47.2		ug/L		94	68 - 120	3	20
Dibromomethane	50.0	51.9		ug/L		104	80 - 120	4	20
Dichlorodifluoromethane	50.0	43.8		ug/L		88	70 - 137	4	40
1,1-Dichloroethane	50.0	53.3		ug/L		107	80 - 120	2	20
1,2-Dichloroethane	50.0	52.8		ug/L		106	72 - 128	3	50
1,1-Dichloroethene	50.0	52.0		ug/L		104	80 - 120	7	20
1,2-Dichloroethene, Total	100	105		ug/L		105	80 - 120	4	20
1,2-Dichloropropane	50.0	51.9		ug/L		104	80 - 120	4	20
1,3-Dichloropropane	50.0	51.7		ug/L		103	80 - 120	4	20
2,2-Dichloropropane	50.0	63.3		ug/L		127	80 - 135	6	20
1,1-Dichloropropene	50.0	51.3		ug/L		103	80 - 120	4	20
Ethylbenzene	50.0	50.3		ug/L		101	80 - 120	3	20
2-Hexanone	250	229		ug/L		92	80 - 131	4	20
Isopropylbenzene	50.0	51.2		ug/L		102	79 - 126	4	20
Methylene Chloride	50.0	51.2		ug/L		102	80 - 120	3	20
4-Methyl-2-pentanone	250	233		ug/L		93	80 - 134	3	20
Methyl tert-butyl ether	50.0	50.2		ug/L		100	80 - 122	5	20
m-Xylene & p-Xylene	50.0	50.9		ug/L		102	80 - 120	4	20
n-Butylbenzene	50.0	53.6		ug/L		107	75 - 132	1	20
N-Propylbenzene	50.0	50.8		ug/L		102	80 - 125	4	20
o-Xylene	50.0	50.8		ug/L		102	80 - 120	4	30
p-Isopropyltoluene	50.0	51.2		ug/L		102	80 - 120	2	20
sec-Butylbenzene	50.0	50.5		ug/L		101	80 - 120	3	20
Styrene	50.0	52.1		ug/L		104	80 - 126	4	20
tert-Butylbenzene	50.0	49.9		ug/L		100	80 - 120	4	20
1,1,1,2-Tetrachloroethane	50.0	54.5		ug/L		109	73 - 124	4	20
1,1,2,2-Tetrachloroethane	50.0	48.5		ug/L		97	76 - 126	4	20
Tetrachloroethene	50.0	52.0		ug/L		104	71 - 123	3	20
Toluene	50.0	50.6		ug/L		101	80 - 120	5	20
trans-1,2-Dichloroethene	50.0	51.6		ug/L		103	80 - 120	4	20
trans-1,3-Dichloropropene	50.0	58.7		ug/L		117	80 - 128	5	30
1,2,3-Trichlorobenzene	50.0	49.9		ug/L		100	70 - 125	2	20
1,1,1-Trichloroethane	50.0	53.4		ug/L		107	80 - 120	3	20
1,1,2-Trichloroethane	50.0	50.8		ug/L		102	80 - 120	2	20
Trichloroethene	50.0	50.7		ug/L		101	80 - 120	3	20
Trichlorofluoromethane	50.0	54.9		ug/L		110	58 - 127	4	20
1,2,4-Trimethylbenzene	50.0	51.0		ug/L		102	80 - 120	4	20
1,3,5-Trimethylbenzene	50.0	50.9		ug/L		102	80 - 120	3	20

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

Lab Sample ID: LCSD 680-446181/5
Matrix: Water
Analysis Batch: 446181

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl acetate			100	128		ug/L		128	74 - 156	3	20
Vinyl chloride			50.0	50.1		ug/L		100	80 - 129	8	20
Xylenes, Total			100	102		ug/L		102	80 - 120	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*109*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*103*		*73 - 131*
Toluene-d8 (Surr)	*104*		*80 - 120*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 680-444887/13-A
Matrix: Water
Analysis Batch: 445160

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 444887

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.20	U	0.20	0.10	ug/L		08/09/16 15:34	08/10/16 16:35	1
Acenaphthylene	0.20	U	0.20	0.10	ug/L		08/09/16 15:34	08/10/16 16:35	1
Acetophenone	1.0	U	1.0	0.30	ug/L		08/09/16 15:34	08/10/16 16:35	1
Anthracene	0.20	U	0.20	0.10	ug/L		08/09/16 15:34	08/10/16 16:35	1
Atrazine	4.0	U	4.0	2.0	ug/L		08/09/16 15:34	08/10/16 16:35	1
Benzaldehyde	1.0	U	1.0	0.10	ug/L		08/09/16 15:34	08/10/16 16:35	1
Benzo[a]anthracene	0.20	U	0.20	0.10	ug/L		08/09/16 15:34	08/10/16 16:35	1
Benzo[a]pyrene	0.20	U	0.20	0.10	ug/L		08/09/16 15:34	08/10/16 16:35	1
Benzo[b]fluoranthene	0.20	U	0.20	0.10	ug/L		08/09/16 15:34	08/10/16 16:35	1
Benzo[g,h,i]perylene	0.135	J	0.20	0.10	ug/L		08/09/16 15:34	08/10/16 16:35	1
Benzo[k]fluoranthene	0.20	U	0.20	0.10	ug/L		08/09/16 15:34	08/10/16 16:35	1
1,1'-Biphenyl	1.0	U	1.0	0.10	ug/L		08/09/16 15:34	08/10/16 16:35	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.10	ug/L		08/09/16 15:34	08/10/16 16:35	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.10	ug/L		08/09/16 15:34	08/10/16 16:35	1
Bis(2-ethylhexyl) phthalate	5.0	U	5.0	2.0	ug/L		08/09/16 15:34	08/10/16 16:35	1
4-Bromophenyl phenyl ether	1.0	U	1.0	0.12	ug/L		08/09/16 15:34	08/10/16 16:35	1
Butyl benzyl phthalate	1.0	U	1.0	0.12	ug/L		08/09/16 15:34	08/10/16 16:35	1
Caprolactam	1.0	U	1.0	0.13	ug/L		08/09/16 15:34	08/10/16 16:35	1
Carbazole	2.0	U	2.0	0.10	ug/L		08/09/16 15:34	08/10/16 16:35	1
4-Chloroaniline	4.0	U	4.0	2.0	ug/L		08/09/16 15:34	08/10/16 16:35	1
4-Chloro-3-methylphenol	1.0	U	1.0	0.12	ug/L		08/09/16 15:34	08/10/16 16:35	1
2-Chloronaphthalene	1.0	U	1.0	0.10	ug/L		08/09/16 15:34	08/10/16 16:35	1
2-Chlorophenol	1.0	U	1.0	0.12	ug/L		08/09/16 15:34	08/10/16 16:35	1
4-Chlorophenyl phenyl ether	1.0	U	1.0	0.10	ug/L		08/09/16 15:34	08/10/16 16:35	1
Chrysene	0.20	U	0.20	0.045	ug/L		08/09/16 15:34	08/10/16 16:35	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.10	ug/L		08/09/16 15:34	08/10/16 16:35	1
Dibenzofuran	1.0	U	1.0	0.10	ug/L		08/09/16 15:34	08/10/16 16:35	1
3,3'-Dichlorobenzidine	20	U	20	2.0	ug/L		08/09/16 15:34	08/10/16 16:35	1
2,4-Dichlorophenol	1.0	U	1.0	0.10	ug/L		08/09/16 15:34	08/10/16 16:35	1
Diethyl phthalate	1.0	U	1.0	0.11	ug/L		08/09/16 15:34	08/10/16 16:35	1
2,4-Dimethylphenol	2.0	U	2.0	0.69	ug/L		08/09/16 15:34	08/10/16 16:35	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 680-444887/13-A
Matrix: Water
Analysis Batch: 445160

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 444887

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	1.0	U	1.0	0.10	ug/L		08/09/16 15:34	08/10/16 16:35	1
Di-n-butyl phthalate	1.0	U	1.0	0.39	ug/L		08/09/16 15:34	08/10/16 16:35	1
4,6-Dinitro-2-methylphenol	5.0	U	5.0	1.0	ug/L		08/09/16 15:34	08/10/16 16:35	1
2,4-Dinitrophenol	10	U	10	1.1	ug/L		08/09/16 15:34	08/10/16 16:35	1
2,4-Dinitrotoluene	1.0	U	1.0	0.12	ug/L		08/09/16 15:34	08/10/16 16:35	1
2,6-Dinitrotoluene	1.0	U	1.0	0.13	ug/L		08/09/16 15:34	08/10/16 16:35	1
Di-n-octyl phthalate	1.0	U	1.0	0.17	ug/L		08/09/16 15:34	08/10/16 16:35	1
Fluoranthene	0.20	U	0.20	0.10	ug/L		08/09/16 15:34	08/10/16 16:35	1
Fluorene	0.20	U	0.20	0.10	ug/L		08/09/16 15:34	08/10/16 16:35	1
Hexachlorobenzene	1.0	U	1.0	0.10	ug/L		08/09/16 15:34	08/10/16 16:35	1
Hexachlorobutadiene	1.0	U	1.0	0.10	ug/L		08/09/16 15:34	08/10/16 16:35	1
Hexachlorocyclopentadiene	2.0	U	2.0	0.50	ug/L		08/09/16 15:34	08/10/16 16:35	1
Hexachloroethane	1.0	U	1.0	0.50	ug/L		08/09/16 15:34	08/10/16 16:35	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.10	ug/L		08/09/16 15:34	08/10/16 16:35	1
Isophorone	1.0	U	1.0	0.10	ug/L		08/09/16 15:34	08/10/16 16:35	1
2-Methylnaphthalene	0.20	U	0.20	0.10	ug/L		08/09/16 15:34	08/10/16 16:35	1
2-Methylphenol	2.0	U	2.0	0.74	ug/L		08/09/16 15:34	08/10/16 16:35	1
3 & 4 Methylphenol	2.0	U	2.0	0.66	ug/L		08/09/16 15:34	08/10/16 16:35	1
Naphthalene	0.20	U	0.20	0.10	ug/L		08/09/16 15:34	08/10/16 16:35	1
2-Nitroaniline	1.0	U	1.0	0.16	ug/L		08/09/16 15:34	08/10/16 16:35	1
3-Nitroaniline	5.0	U	5.0	0.16	ug/L		08/09/16 15:34	08/10/16 16:35	1
4-Nitroaniline	5.0	U	5.0	0.50	ug/L		08/09/16 15:34	08/10/16 16:35	1
Nitrobenzene	1.0	U	1.0	0.10	ug/L		08/09/16 15:34	08/10/16 16:35	1
2-Nitrophenol	1.0	U	1.0	0.10	ug/L		08/09/16 15:34	08/10/16 16:35	1
4-Nitrophenol	8.0	U	8.0	4.0	ug/L		08/09/16 15:34	08/10/16 16:35	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.13	ug/L		08/09/16 15:34	08/10/16 16:35	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.37	ug/L		08/09/16 15:34	08/10/16 16:35	1
2,2'-oxybis[1-chloropropane]	1.0	U	1.0	0.10	ug/L		08/09/16 15:34	08/10/16 16:35	1
Pentachlorophenol	5.0	U	5.0	0.40	ug/L		08/09/16 15:34	08/10/16 16:35	1
Phenanthrene	0.20	U	0.20	0.10	ug/L		08/09/16 15:34	08/10/16 16:35	1
Phenol	1.0	U	1.0	0.13	ug/L		08/09/16 15:34	08/10/16 16:35	1
Pyrene	0.20	U	0.20	0.10	ug/L		08/09/16 15:34	08/10/16 16:35	1
2,4,5-Trichlorophenol	1.0	U	1.0	0.12	ug/L		08/09/16 15:34	08/10/16 16:35	1
2,4,6-Trichlorophenol	1.0	U	1.0	0.17	ug/L		08/09/16 15:34	08/10/16 16:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*31 - 107*	*08/09/16 15:34*	*08/10/16 16:35*	*1*
2-Fluorophenol	*65*		*18 - 112*	*08/09/16 15:34*	*08/10/16 16:35*	*1*
Nitrobenzene-d5 (Surr)	*83*		*37 - 103*	*08/09/16 15:34*	*08/10/16 16:35*	*1*
Phenol-d5 (Surr)	*75*		*20 - 113*	*08/09/16 15:34*	*08/10/16 16:35*	*1*
Terphenyl-d14 (Surr)	*80*		*22 - 121*	*08/09/16 15:34*	*08/10/16 16:35*	*1*
2,4,6-Tribromophenol (Surr)	*81*		*39 - 133*	*08/09/16 15:34*	*08/10/16 16:35*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 680-444887/14-A
Matrix: Water
Analysis Batch: 445160

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 444887

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	10.0	7.19		ug/L		72	41 - 130
Acenaphthylene	10.0	6.91		ug/L		69	37 - 130
Acetophenone	10.0	9.23		ug/L		92	45 - 130
Anthracene	10.0	9.69		ug/L		97	48 - 130
Atrazine	10.0	4.0	U *	ug/L		13	30 - 130
Benzaldehyde	10.0	6.81		ug/L		68	17 - 130
Benzo[a]anthracene	10.0	8.61		ug/L		86	52 - 130
Benzo[a]pyrene	10.0	11.1		ug/L		111	44 - 130
Benzo[b]fluoranthene	10.0	12.8		ug/L		128	44 - 130
Benzo[g,h,i]perylene	10.0	9.31		ug/L		93	31 - 130
Benzo[k]fluoranthene	10.0	12.2		ug/L		122	39 - 131
1,1'-Biphenyl	10.0	7.06		ug/L		71	35 - 130
Bis(2-chloroethoxy)methane	10.0	7.68		ug/L		77	33 - 130
Bis(2-chloroethyl)ether	10.0	8.60		ug/L		86	29 - 130
Bis(2-ethylhexyl) phthalate	10.0	8.50		ug/L		85	40 - 130
4-Bromophenyl phenyl ether	10.0	9.80		ug/L		98	41 - 130
Butyl benzyl phthalate	10.0	9.56		ug/L		96	42 - 130
Caprolactam	10.0	6.07		ug/L		61	25 - 130
Carbazole	10.0	5.83		ug/L		58	48 - 130
4-Chloroaniline	10.0	4.0	U	ug/L		10	10 - 130
4-Chloro-3-methylphenol	10.0	10.8		ug/L		108	49 - 122
2-Chloronaphthalene	10.0	7.14		ug/L		71	31 - 130
2-Chlorophenol	10.0	8.32		ug/L		83	44 - 130
4-Chlorophenyl phenyl ether	10.0	7.74		ug/L		77	39 - 130
Chrysene	10.0	8.49		ug/L		85	47 - 130
Dibenz(a,h)anthracene	10.0	11.5		ug/L		115	36 - 130
Dibenzofuran	10.0	7.95		ug/L		79	38 - 130
3,3'-Dichlorobenzidine	10.0	20	U *	ug/L		0	10 - 142
2,4-Dichlorophenol	10.0	9.39		ug/L		94	49 - 130
Diethyl phthalate	10.0	7.88		ug/L		79	46 - 130
2,4-Dimethylphenol	10.0	8.75		ug/L		87	37 - 130
Dimethyl phthalate	10.0	7.96		ug/L		80	48 - 130
Di-n-butyl phthalate	10.0	10.0		ug/L		100	43 - 130
4,6-Dinitro-2-methylphenol	20.0	24.1		ug/L		120	18 - 147
2,4-Dinitrophenol	20.0	19.2		ug/L		96	16 - 147
2,4-Dinitrotoluene	10.0	9.01		ug/L		90	51 - 130
2,6-Dinitrotoluene	10.0	8.53		ug/L		85	51 - 130
Di-n-octyl phthalate	10.0	8.37		ug/L		84	43 - 130
Fluoranthene	10.0	9.51		ug/L		95	50 - 130
Fluorene	10.0	8.00		ug/L		80	43 - 130
Hexachlorobenzene	10.0	8.87		ug/L		89	42 - 130
Hexachlorobutadiene	10.0	6.70		ug/L		67	23 - 130
Hexachlorocyclopentadiene	10.0	3.61		ug/L		36	10 - 130
Hexachloroethane	10.0	6.65		ug/L		67	23 - 130
Indeno[1,2,3-cd]pyrene	10.0	6.59		ug/L		66	30 - 130
Isophorone	10.0	8.85		ug/L		88	46 - 130
2-Methylnaphthalene	10.0	8.50		ug/L		85	33 - 130
2-Methylphenol	10.0	8.67		ug/L		87	42 - 130

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 680-444887/14-A
Matrix: Water
Analysis Batch: 445160

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 444887

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
3 & 4 Methylphenol	10.0	8.54		ug/L		85	44 - 130
Naphthalene	10.0	7.96		ug/L		80	40 - 130
2-Nitroaniline	10.0	8.34		ug/L		83	46 - 130
3-Nitroaniline	10.0	1.66	J	ug/L		17	14 - 130
4-Nitroaniline	10.0	4.67	J	ug/L		47	38 - 130
Nitrobenzene	10.0	8.65		ug/L		87	41 - 130
2-Nitrophenol	10.0	9.45		ug/L		95	50 - 130
4-Nitrophenol	20.0	18.4		ug/L		92	25 - 135
N-Nitrosodi-n-propylamine	10.0	8.91		ug/L		89	39 - 130
N-Nitrosodiphenylamine	10.0	5.52		ug/L		55	27 - 130
2,2'-oxybis[1-chloropropane]	10.0	8.46		ug/L		85	24 - 130
Pentachlorophenol	20.0	22.8		ug/L		114	27 - 134
Phenanthrene	10.0	9.83		ug/L		98	49 - 130
Phenol	10.0	7.39		ug/L		74	37 - 130
Pyrene	10.0	8.86		ug/L		89	45 - 130
2,4,5-Trichlorophenol	10.0	8.01		ug/L		80	49 - 130
2,4,6-Trichlorophenol	10.0	8.46		ug/L		85	48 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*63*		*31 - 107*
2-Fluorophenol	*65*		*18 - 112*
Nitrobenzene-d5 (Surr)	*81*		*37 - 103*
Phenol-d5 (Surr)	*71*		*20 - 113*
Terphenyl-d14 (Surr)	*82*		*22 - 121*
2,4,6-Tribromophenol (Surr)	*83*		*39 - 133*

Lab Sample ID: 680-128400-1 MS
Matrix: Water
Analysis Batch: 445442

Client Sample ID: 1600780-GSP-10
Prep Type: Total/NA
Prep Batch: 444887

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.20	U F1 F2	12.2	3.98	F1	ug/L		33	41 - 130
Acenaphthylene	0.20	U F1 F2	12.2	4.12	F1	ug/L		34	37 - 130
Acetophenone	0.53	J F2	12.2	5.97		ug/L		45	45 - 130
Anthracene	0.20	U F2	12.2	6.01		ug/L		49	48 - 130
Atrazine	4.0	U	12.2	4.59	J	ug/L		38	30 - 130
Benzaldehyde	1.0	U	12.2	4.40		ug/L		36	17 - 130
Benzo[a]anthracene	0.20	U F1 F2	12.2	6.19	F1	ug/L		51	52 - 130
Benzo[a]pyrene	0.20	U	12.2	6.13		ug/L		50	44 - 130
Benzo[b]fluoranthene	0.20	U	12.2	6.37		ug/L		52	44 - 130
Benzo[g,h,i]perylene	0.20	U	12.2	6.44		ug/L		53	31 - 130
Benzo[k]fluoranthene	0.20	U F2	12.2	5.94		ug/L		49	39 - 131
1,1'-Biphenyl	1.0	U F1 F2	12.2	3.71	F1	ug/L		30	35 - 130
Bis(2-chloroethoxy)methane	1.0	U	12.2	5.21		ug/L		43	33 - 130
Bis(2-chloroethyl)ether	1.0	U	12.2	5.77		ug/L		47	29 - 130
Bis(2-ethylhexyl) phthalate	5.0	U	12.2	6.09	J	ug/L		50	40 - 130
4-Bromophenyl phenyl ether	1.0	U F2	12.2	5.27		ug/L		43	41 - 130
Butyl benzyl phthalate	1.0	U F2	12.2	6.46		ug/L		53	42 - 130

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 680-128400-1 MS | **Client Sample ID: 1600780-GSP-10**
Matrix: Water | **Prep Type: Total/NA**
Analysis Batch: 445442 | **Prep Batch: 444887**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Caprolactam	1.0	U F1	12.2	1.2	U F1	ug/L		0	25 - 130
Carbazole	2.0	U	12.2	8.79		ug/L		72	48 - 130
4-Chloroaniline	4.0	U F1	12.2	4.9	U F1	ug/L		0	10 - 130
4-Chloro-3-methylphenol	1.0	U F1	12.2	5.68	F1	ug/L		47	49 - 122
2-Chloronaphthalene	1.0	U F1 F2	12.2	3.65	F1	ug/L		30	31 - 130
2-Chlorophenol	1.0	U F2	12.2	5.48		ug/L		45	44 - 130
4-Chlorophenyl phenyl ether	1.0	U F1 F2	12.2	3.89	F1	ug/L		32	39 - 130
Chrysene	0.20	U	12.2	6.07		ug/L		50	47 - 130
Dibenz(a,h)anthracene	0.20	U	12.2	6.51		ug/L		53	36 - 130
Dibenzofuran	1.0	U F1 F2	12.2	4.09	F1	ug/L		34	38 - 130
3,3'-Dichlorobenzidine	20	U F1	12.2	24	U F1	ug/L		0	10 - 142
2,4-Dichlorophenol	0.70	J F1	12.2	6.35	F1	ug/L		46	49 - 130
Diethyl phthalate	1.0	U F1 F2	12.2	4.03	F1	ug/L		33	46 - 130
2,4-Dimethylphenol	8.4		12.2	15.5		ug/L		58	37 - 130
Dimethyl phthalate	1.0	U F1 F2	12.2	3.71	F1	ug/L		31	48 - 130
Di-n-butyl phthalate	1.0	U	12.2	7.11		ug/L		58	43 - 130
4,6-Dinitro-2-methylphenol	5.0	U	24.3	14.8		ug/L		61	18 - 147
2,4-Dinitrophenol	10	U F2	24.3	9.05	J	ug/L		37	16 - 147
2,4-Dinitrotoluene	1.0	U F1 F2	12.2	4.48	F1	ug/L		37	51 - 130
2,6-Dinitrotoluene	1.0	U F1 F2	12.2	4.38	F1	ug/L		36	51 - 130
Di-n-octyl phthalate	1.0	U	12.2	6.09		ug/L		50	43 - 130
Fluoranthene	0.20	U F2	12.2	6.75		ug/L		55	50 - 130
Fluorene	0.20	U F1 F2	12.2	3.39	F1	ug/L		28	43 - 130
Hexachlorobenzene	1.0	U F2	12.2	5.15		ug/L		42	42 - 130
Hexachlorobutadiene	1.0	U F1 F2	12.2	2.52	F1	ug/L		21	23 - 130
Hexachlorocyclopentadiene	2.0	U F2	12.2	1.80	J	ug/L		15	10 - 130
Hexachloroethane	1.0	U F2	12.2	3.02		ug/L		25	23 - 130
Indeno[1,2,3-cd]pyrene	0.20	U	12.2	6.21		ug/L		51	30 - 130
Isophorone	1.0	U F1 F2	12.2	5.37	F1	ug/L		44	46 - 130
2-Methylnaphthalene	0.23		12.2	5.28		ug/L		41	33 - 130
2-Methylphenol	2.1		12.2	8.00		ug/L		48	42 - 130
3 & 4 Methylphenol	1.9	J	12.2	7.90		ug/L		50	44 - 130
Naphthalene	0.74		12.2	6.06		ug/L		44	40 - 130
2-Nitroaniline	1.0	U F1 F2	12.2	4.90	F1	ug/L		40	46 - 130
3-Nitroaniline	5.0	U F1	12.2	6.1	U F1	ug/L		0	14 - 130
4-Nitroaniline	5.0	U F1 F2	12.2	2.29	J F1	ug/L		19	38 - 130
Nitrobenzene	1.0	U F2	12.2	5.75		ug/L		47	41 - 130
2-Nitrophenol	1.0	U F1 F2	12.2	5.86	F1	ug/L		48	50 - 130
4-Nitrophenol	8.0	U F1	24.3	9.7	U F1	ug/L		0	25 - 135
N-Nitrosodi-n-propylamine	1.0	U F2	12.2	6.37		ug/L		52	39 - 130
N-Nitrosodiphenylamine	1.0	U	12.2	5.62		ug/L		46	27 - 130
2,2'-oxybis[1-chloropropane]	1.0	U F2	12.2	4.07		ug/L		33	24 - 130
Pentachlorophenol	5.0	U F2	24.3	15.7		ug/L		64	27 - 134
Phenanthrene	0.20	U F2	12.2	6.25		ug/L		51	49 - 130
Phenol	10	F1	12.2	8.69	F1	ug/L		-11	37 - 130
Pyrene	0.20	U F2	12.2	6.16		ug/L		51	45 - 130
2,4,5-Trichlorophenol	1.0	U F1 F2	12.2	4.30	F1	ug/L		35	49 - 130
2,4,6-Trichlorophenol	1.0	U F1 F2	12.2	5.51	F1	ug/L		45	48 - 130

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 680-128400-1 MS
Matrix: Water
Analysis Batch: 445442

Client Sample ID: 1600780-GSP-10
Prep Type: Total/NA
Prep Batch: 444887

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*27*	*X*	*31 - 107*
2-Fluorophenol	*35*		*18 - 112*
Nitrobenzene-d5 (Surr)	*39*		*37 - 103*
Phenol-d5 (Surr)	*34*		*20 - 113*
Terphenyl-d14 (Surr)	*37*		*22 - 121*
2,4,6-Tribromophenol (Surr)	*31*	*X*	*39 - 133*

Lab Sample ID: 680-128400-1 MSD
Matrix: Water
Analysis Batch: 445442

Client Sample ID: 1600780-GSP-10
Prep Type: Total/NA
Prep Batch: 444887

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	0.20	U F1 F2	15.6	11.5	F2	ug/L		74	41 - 130	97	20
Acenaphthylene	0.20	U F1 F2	15.6	11.4	F2	ug/L		73	37 - 130	94	30
Acetophenone	0.53	J F2	15.6	8.22	F2	ug/L		49	45 - 130	32	30
Anthracene	0.20	U F2	15.6	7.85	F2	ug/L		50	48 - 130	27	20
Atrazine	4.0	U	15.6	5.90	J	ug/L		38	30 - 130	25	50
Benzaldehyde	1.0	U	15.6	5.99		ug/L		38	17 - 130	31	50
Benzo[a]anthracene	0.20	U F1 F2	15.6	7.99	F1 F2	ug/L		51	52 - 130	25	20
Benzo[a]pyrene	0.20	U	15.6	7.71		ug/L		50	44 - 130	23	30
Benzo[b]fluoranthene	0.20	U	15.6	8.25		ug/L		53	44 - 130	26	40
Benzo[g,h,i]perylene	0.20	U	15.6	8.20		ug/L		53	31 - 130	24	40
Benzo[k]fluoranthene	0.20	U F2	15.6	8.11	F2	ug/L		52	39 - 131	31	30
1,1'-Biphenyl	1.0	U F1 F2	15.6	10.9	F2	ug/L		70	35 - 130	98	30
Bis(2-chloroethoxy)methane	1.0	U	15.6	7.27		ug/L		47	33 - 130	33	50
Bis(2-chloroethyl)ether	1.0	U	15.6	8.18		ug/L		53	29 - 130	35	50
Bis(2-ethylhexyl) phthalate	5.0	U	15.6	7.84		ug/L		50	40 - 130	25	30
4-Bromophenyl phenyl ether	1.0	U F2	15.6	7.28	F2	ug/L		47	41 - 130	32	20
Butyl benzyl phthalate	1.0	U F2	15.6	8.38	F2	ug/L		54	42 - 130	26	20
Caprolactam	1.0	U F1	15.6	1.6	U F1	ug/L		0	25 - 130	NC	50
Carbazole	2.0	U	15.6	11.2		ug/L		72	48 - 130	24	50
4-Chloroaniline	4.0	U F1	15.6	6.2	U F1	ug/L		0	10 - 130	NC	50
4-Chloro-3-methylphenol	1.0	U F1	15.6	7.42	F1	ug/L		48	49 - 122	27	30
2-Chloronaphthalene	1.0	U F1 F2	15.6	10.8	F2	ug/L		70	31 - 130	99	30
2-Chlorophenol	1.0	U F2	15.6	7.58	F2	ug/L		49	44 - 130	32	30
4-Chlorophenyl phenyl ether	1.0	U F1 F2	15.6	9.59	F2	ug/L		62	39 - 130	84	20
Chrysene	0.20	U	15.6	7.77		ug/L		50	47 - 130	25	30
Dibenz(a,h)anthracene	0.20	U	15.6	8.30		ug/L		53	36 - 130	24	30
Dibenzofuran	1.0	U F1 F2	15.6	11.7	F2	ug/L		75	38 - 130	97	20
3,3'-Dichlorobenzidine	20	U F1	15.6	31	U F1	ug/L		0	10 - 142	NC	50
2,4-Dichlorophenol	0.70	J F1	15.6	8.49		ug/L		50	49 - 130	29	30
Diethyl phthalate	1.0	U F1 F2	15.6	10.5	F2	ug/L		67	46 - 130	89	20
2,4-Dimethylphenol	8.4		15.6	17.6		ug/L		59	37 - 130	13	30
Dimethyl phthalate	1.0	U F1 F2	15.6	9.94	F2	ug/L		64	48 - 130	91	20
Di-n-butyl phthalate	1.0	U	15.6	8.70		ug/L		56	43 - 130	20	20
4,6-Dinitro-2-methylphenol	5.0	U	31.1	18.5		ug/L		59	18 - 147	22	30
2,4-Dinitrophenol	10	U F2	31.1	23.6	F2	ug/L		76	16 - 147	89	50
2,4-Dinitrotoluene	1.0	U F1 F2	15.6	11.2	F2	ug/L		72	51 - 130	86	20

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 680-128400-1 MSD — **Client Sample ID: 1600780-GSP-10**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445442 — **Prep Batch: 444887**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,6-Dinitrotoluene	1.0	U F1 F2	15.6	13.2	F2	ug/L		85	51 - 130	101	20
Di-n-octyl phthalate	1.0	U	15.6	7.79		ug/L		50	43 - 130	24	30
Fluoranthene	0.20	U F2	15.6	8.52	F2	ug/L		55	50 - 130	23	20
Fluorene	0.20	U F1 F2	15.6	9.73	F2	ug/L		62	43 - 130	97	20
Hexachlorobenzene	1.0	U F2	15.6	6.87	F2	ug/L		44	42 - 130	29	20
Hexachlorobutadiene	1.0	U F1 F2	15.6	5.07	F2	ug/L		33	23 - 130	67	30
Hexachlorocyclopentadiene	2.0	U F2	15.6	6.08	F2	ug/L		39	10 - 130	109	50
Hexachloroethane	1.0	U F2	15.6	5.18	F2	ug/L		33	23 - 130	53	30
Indeno[1,2,3-cd]pyrene	0.20	U	15.6	8.08		ug/L		52	30 - 130	26	30
Isophorone	1.0	U F1 F2	15.6	7.32	F2	ug/L		47	46 - 130	31	30
2-Methylnaphthalene	0.23		15.6	7.16		ug/L		44	33 - 130	30	30
2-Methylphenol	2.1		15.6	10.1		ug/L		51	42 - 130	23	30
3 & 4 Methylphenol	1.9	J	15.6	10.1		ug/L		53	44 - 130	24	30
Naphthalene	0.74		15.6	7.87		ug/L		46	40 - 130	26	30
2-Nitroaniline	1.0	U F1 F2	15.6	13.1	F2	ug/L		84	46 - 130	91	20
3-Nitroaniline	5.0	U F1	15.6	7.8	U F1	ug/L		0	14 - 130	NC	50
4-Nitroaniline	5.0	U F1 F2	15.6	6.40	J F2	ug/L		41	38 - 130	95	50
Nitrobenzene	1.0	U F2	15.6	7.89	F2	ug/L		51	41 - 130	31	30
2-Nitrophenol	1.0	U F1 F2	15.6	8.01	F2	ug/L		51	50 - 130	31	30
4-Nitrophenol	8.0	U F1	31.1	25.1		ug/L		81	25 - 135	NC	30
N-Nitrosodi-n-propylamine	1.0	U F2	15.6	8.83	F2	ug/L		57	39 - 130	32	30
N-Nitrosodiphenylamine	1.0	U	15.6	7.49		ug/L		48	27 - 130	29	40
2,2'-oxybis[1-chloropropane]	1.0	U F2	15.6	5.90	F2	ug/L		38	24 - 130	37	30
Pentachlorophenol	5.0	U F2	31.1	19.3	F2	ug/L		62	27 - 134	21	20
Phenanthrene	0.20	U F2	15.6	8.48	F2	ug/L		54	49 - 130	30	20
Phenol	10	F1	15.6	11.4	F1	ug/L		9	37 - 130	27	40
Pyrene	0.20	U F2	15.6	8.17	F2	ug/L		52	45 - 130	28	20
2,4,5-Trichlorophenol	1.0	U F1 F2	15.6	13.6	F2	ug/L		88	49 - 130	104	20
2,4,6-Trichlorophenol	1.0	U F1 F2	15.6	15.8	F2	ug/L		101	48 - 130	96	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*57*		*31 - 107*
2-Fluorophenol	*38*		*18 - 112*
Nitrobenzene-d5 (Surr)	*41*		*37 - 103*
Phenol-d5 (Surr)	*38*		*20 - 113*
Terphenyl-d14 (Surr)	*37*		*22 - 121*
2,4,6-Tribromophenol (Surr)	*59*		*39 - 133*

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 680-444594/2 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444594

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.050	U	0.050	0.023	mg/L			08/06/16 09:15	1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 680-444594/3 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444594

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.999	1.08		mg/L		108	90 - 110

Lab Sample ID: LCSD 680-444594/4 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444594

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	0.999	1.07		mg/L		108	90 - 110	0	15

Lab Sample ID: 680-128400-12 MS — **Client Sample ID: 1600780-MW-13**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444594

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.50	U	9.99	10.6		mg/L		106	80 - 120

Lab Sample ID: 680-128400-12 MSD — **Client Sample ID: 1600780-MW-13**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444594

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	0.50	U	9.99	10.8		mg/L		108	80 - 120	1	15

Lab Sample ID: 680-128400-L-4 MS — **Client Sample ID: 680-128400-L-4 MS**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444594

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.50	U	9.99	10.9		mg/L			

Lab Sample ID: 680-128400-L-4 MSD — **Client Sample ID: 680-128400-L-4 MSD**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444594

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	0.50	U	9.99	10.8		mg/L				1	15

Lab Sample ID: MB 680-445916/36 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445916

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.0	U	1.0	0.40	mg/L			08/16/16 19:49	1
Bromide	0.50	U	0.50	0.20	mg/L			08/16/16 19:49	1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 680-445916/37 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445916

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	10.0	9.75		mg/L		97	90 - 110
Bromide	10.0	9.98		mg/L		100	90 - 110

Lab Sample ID: LCSD 680-445916/38 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445916

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	10.0	9.83		mg/L		98	90 - 110	1	15
Bromide	10.0	9.99		mg/L		100	90 - 110	0	15

Lab Sample ID: MB 680-446056/2 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446056

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.0	U	1.0	0.40	mg/L			08/17/16 09:57	1
Chloride	0.50	U	0.50	0.20	mg/L			08/17/16 09:57	1
Bromide	0.50	U	0.50	0.20	mg/L			08/17/16 09:57	1

Lab Sample ID: LCS 680-446056/3 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446056

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	10.0	9.89		mg/L		99	90 - 110
Chloride	10.0	9.74		mg/L		97	90 - 110
Bromide	10.0	9.87		mg/L		99	90 - 110

Lab Sample ID: LCSD 680-446056/4 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446056

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	10.0	9.95		mg/L		100	90 - 110	1	15
Chloride	10.0	9.75		mg/L		98	90 - 110	0	15
Bromide	10.0	9.86		mg/L		99	90 - 110	0	15

Lab Sample ID: MB 680-446265/2 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446265

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.50	U	0.50	0.20	mg/L			08/17/16 16:34	1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 680-446265/3 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446265

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.71		mg/L		97	90 - 110

Lab Sample ID: LCSD 680-446265/4 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446265

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10.0	9.71		mg/L		97	90 - 110	0	15

Lab Sample ID: 680-128400-2 MS — **Client Sample ID: 1600780-MW-21**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446265

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	99		50.0	149		mg/L		100	80 - 120

Lab Sample ID: 680-128400-2 MSD — **Client Sample ID: 1600780-MW-21**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446265

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	99		50.0	149		mg/L		100	80 - 120	0	15

Lab Sample ID: MB 680-446278/36 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446278

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.0	U	1.0	0.40	mg/L			08/17/16 19:49	1
Chloride	0.50	U	0.50	0.20	mg/L			08/17/16 19:49	1
Bromide	0.50	U	0.50	0.20	mg/L			08/17/16 19:49	1

Lab Sample ID: LCS 680-446278/37 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446278

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	10.0	9.80		mg/L		98	90 - 110
Chloride	10.0	9.73		mg/L		97	90 - 110
Bromide	10.0	9.82		mg/L		98	90 - 110

Lab Sample ID: LCSD 680-446278/38 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446278

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	10.0	9.83		mg/L		98	90 - 110	0	15
Chloride	10.0	9.72		mg/L		97	90 - 110	0	15
Bromide	10.0	9.79		mg/L		98	90 - 110	0	15

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 680-128400-3 MS — **Client Sample ID: 1600780-MW-19**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446278

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	11		50.0	60.6		mg/L		99	80 - 120
Chloride	86		50.0	137		mg/L		103	80 - 120
Bromide	1.0	J	50.0	50.8		mg/L		100	80 - 120

Lab Sample ID: 680-128400-3 MSD — **Client Sample ID: 1600780-MW-19**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446278

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	11		50.0	60.5		mg/L		99	80 - 120	0	15
Chloride	86		50.0	137		mg/L		102	80 - 120	0	15
Bromide	1.0	J	50.0	50.8		mg/L		100	80 - 120	0	15

Lab Sample ID: MB 680-446321/10 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446321

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.50	U	0.50	0.20	mg/L			08/18/16 12:37	1

Lab Sample ID: LCS 680-446321/11 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446321

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.70		mg/L		97	90 - 110

Lab Sample ID: LCSD 680-446321/12 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446321

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10.0	9.70		mg/L		97	90 - 110	0	15

Lab Sample ID: 680-128400-13 MS — **Client Sample ID: 1600780-MW-20**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446321

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	92		40.0	133		mg/L		101	80 - 120

Lab Sample ID: 680-128400-13 MSD — **Client Sample ID: 1600780-MW-20**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446321

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	92		40.0	133		mg/L		101	80 - 120	0	15

QC Sample Results

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-444840/1-A
Matrix: Water
Analysis Batch: 445320

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 444840

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	20	U	20	5.3	ug/L		08/08/16 18:02	08/10/16 23:12	1
Arsenic	20	U	20	6.2	ug/L		08/08/16 18:02	08/10/16 23:12	1
Beryllium	4.0	U	4.0	0.10	ug/L		08/08/16 18:02	08/10/16 23:12	1
Cadmium	5.0	U	5.0	1.0	ug/L		08/08/16 18:02	08/10/16 23:12	1
Calcium	72.8	J	500	25	ug/L		08/08/16 18:02	08/10/16 23:12	1
Chromium	10	U	10	1.6	ug/L		08/08/16 18:02	08/10/16 23:12	1
Copper	20	U	20	1.8	ug/L		08/08/16 18:02	08/10/16 23:12	1
Iron	50	U	50	17	ug/L		08/08/16 18:02	08/10/16 23:12	1
Lead	10	U	10	3.9	ug/L		08/08/16 18:02	08/10/16 23:12	1
Magnesium	500	U	500	33	ug/L		08/08/16 18:02	08/10/16 23:12	1
Manganese	10	U	10	1.0	ug/L		08/08/16 18:02	08/10/16 23:12	1
Nickel	40	U	40	2.1	ug/L		08/08/16 18:02	08/10/16 23:12	1
Potassium	1000	U	1000	17	ug/L		08/08/16 18:02	08/10/16 23:12	1
Selenium	20	U	20	9.9	ug/L		08/08/16 18:02	08/10/16 23:12	1
Silver	10	U	10	0.60	ug/L		08/08/16 18:02	08/10/16 23:12	1
Sodium	1000	U	1000	480	ug/L		08/08/16 18:02	08/10/16 23:12	1
Thallium	25	U	25	6.0	ug/L		08/08/16 18:02	08/10/16 23:12	1
Zinc	20	U	20	7.0	ug/L		08/08/16 18:02	08/10/16 23:12	1

Lab Sample ID: LCS 680-444840/2-A
Matrix: Water
Analysis Batch: 445320

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 444840

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	52.0		ug/L		104	80 - 120
Arsenic	100	106		ug/L		106	80 - 120
Beryllium	50.0	53.7		ug/L		107	80 - 120
Cadmium	50.0	51.3		ug/L		103	80 - 120
Calcium	5000	4990		ug/L		100	80 - 120
Chromium	100	103		ug/L		103	80 - 120
Copper	100	110		ug/L		110	80 - 120
Iron	5000	4970		ug/L		99	80 - 120
Lead	500	506		ug/L		101	80 - 120
Magnesium	5000	5060		ug/L		101	80 - 120
Manganese	500	524		ug/L		105	80 - 120
Nickel	100	102		ug/L		102	80 - 120
Potassium	8000	8090		ug/L		101	80 - 120
Selenium	100	105		ug/L		105	80 - 120
Silver	50.0	48.2		ug/L		96	80 - 120
Sodium	5000	4620		ug/L		92	80 - 120
Thallium	40.0	41.7		ug/L		104	80 - 120
Zinc	100	105		ug/L		105	80 - 120

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

Lab Sample ID: 680-128400-1 MS — **Client Sample ID: 1600780-GSP-10**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445320 — **Prep Batch: 444840**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	20	U	50.0	53.9		ug/L		108	75 - 125
Arsenic	7.0	J	100	116		ug/L		109	75 - 125
Beryllium	4.0	U	50.0	53.9		ug/L		108	75 - 125
Cadmium	5.0	U	50.0	51.2		ug/L		102	75 - 125
Calcium	96000	B	5000	97700	4	ug/L		37	75 - 125
Chromium	10	U	100	103		ug/L		103	75 - 125
Copper	2.7	J	100	111		ug/L		108	75 - 125
Iron	1800		5000	6660		ug/L		97	75 - 125
Lead	10	U	500	498		ug/L		100	75 - 125
Magnesium	38000		5000	42200	4	ug/L		80	75 - 125
Manganese	71		500	588		ug/L		103	75 - 125
Nickel	3.7	J	100	103		ug/L		99	75 - 125
Potassium	7700		8000	16000		ug/L		104	75 - 125
Selenium	20	U	100	109		ug/L		109	75 - 125
Silver	10	U	50.0	51.6		ug/L		103	75 - 125
Thallium	25	U	40.0	40.3		ug/L		101	75 - 125
Zinc	19	J	100	120		ug/L		101	75 - 125

Lab Sample ID: 680-128400-1 MS — **Client Sample ID: 1600780-GSP-10**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446234 — **Prep Batch: 444840**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	150000		5000	150000	4	ug/L		76	75 - 125

Lab Sample ID: 680-128400-1 MSD — **Client Sample ID: 1600780-GSP-10**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445320 — **Prep Batch: 444840**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	20	U	50.0	52.1		ug/L		104	75 - 125	3	20
Arsenic	7.0	J	100	114		ug/L		107	75 - 125	1	20
Beryllium	4.0	U	50.0	53.9		ug/L		108	75 - 125	0	20
Cadmium	5.0	U	50.0	51.0		ug/L		102	75 - 125	0	20
Calcium	96000	B	5000	97400	4	ug/L		32	75 - 125	0	20
Chromium	10	U	100	103		ug/L		103	75 - 125	0	20
Copper	2.7	J	100	110		ug/L		108	75 - 125	0	20
Iron	1800		5000	6630		ug/L		96	75 - 125	0	20
Lead	10	U	500	497		ug/L		99	75 - 125	0	20
Magnesium	38000		5000	42100	4	ug/L		77	75 - 125	0	20
Manganese	71		500	587		ug/L		103	75 - 125	0	20
Nickel	3.7	J	100	102		ug/L		99	75 - 125	0	20
Potassium	7700		8000	15900		ug/L		103	75 - 125	0	20
Selenium	20	U	100	108		ug/L		108	75 - 125	1	20
Silver	10	U	50.0	51.8		ug/L		104	75 - 125	0	20
Thallium	25	U	40.0	39.6		ug/L		99	75 - 125	2	20
Zinc	19	J	100	118		ug/L		98	75 - 125	2	20

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

Lab Sample ID: 680-128400-1 MSD — **Client Sample ID: 1600780-GSP-10**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446234 — **Prep Batch: 444840**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sodium	150000		5000	154000	4	ug/L		159	75 - 125	3	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-444960/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445294 — **Prep Batch: 444960**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.080	ug/L		08/09/16 13:30	08/10/16 17:09	1

Lab Sample ID: LCS 680-444960/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445294 — **Prep Batch: 444960**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.64		ug/L		106	80 - 120

Lab Sample ID: 680-128400-5 MS — **Client Sample ID: 1600780-MW-3**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445294 — **Prep Batch: 444960**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.20	U	1.00	1.13		ug/L		113	80 - 120

Lab Sample ID: 680-128400-5 MSD — **Client Sample ID: 1600780-MW-3**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445294 — **Prep Batch: 444960**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	1.09		ug/L		109	80 - 120	3	20

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 680-445358/7 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445358

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	5.0	U	5.0	5.0	mg/L			08/11/16 12:15	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	5.0	mg/L			08/11/16 12:15	1

Lab Sample ID: LCS 680-445358/8 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445358

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	250	324	*	mg/L		129	80 - 120

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: LCSD 680-445358/27 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445358

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity	250	233	*	mg/L		93	80 - 120	32	30

Lab Sample ID: MB 680-445840/7 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445840

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	5.0	U	5.0	5.0	mg/L			08/15/16 15:16	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	5.0	mg/L			08/15/16 15:16	1

Lab Sample ID: LCS 680-445840/8 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445840

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	250	232		mg/L		93	80 - 120

Lab Sample ID: LCSD 680-445840/34 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445840

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity	250	249		mg/L		100	80 - 120	7	30

Lab Sample ID: MB 680-445841/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445841

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	5.0	U	5.0	5.0	mg/L			08/15/16 19:01	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	5.0	mg/L			08/15/16 19:01	1

Lab Sample ID: LCS 680-445841/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445841

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	250	231		mg/L		93	80 - 120

Lab Sample ID: LCSD 680-445841/30 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445841

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity	250	231		mg/L		92	80 - 120	0	30

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: MB 680-446016/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446016

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	5.0	U	5.0	5.0	mg/L			08/16/16 19:42	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	5.0	mg/L			08/16/16 19:42	1

Lab Sample ID: LCS 680-446016/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446016

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	250	231		mg/L		92	80 - 120

Lab Sample ID: LCSD 680-446016/23 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446016

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity	250	232		mg/L		93	80 - 120	0	30

Lab Sample ID: 680-128400-10 DU — **Client Sample ID: 1600780-MW-24**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446016

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	650		646		mg/L		0.2	30
Bicarbonate Alkalinity as CaCO3	650		644		mg/L		0.2	30

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 680-444932/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444932

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			08/09/16 11:54	1

Lab Sample ID: LCS 680-444932/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444932

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	59.0	50.0		mg/L		85	80 - 120

Lab Sample ID: LCSD 680-444932/3 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444932

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids	59.0	49.0		mg/L		83	80 - 120	2	25

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C) (Continued)

Lab Sample ID: MB 680-444964/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444964

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			08/09/16 13:37	1

Lab Sample ID: LCS 680-444964/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444964

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	59.0	50.0		mg/L		85	80 - 120

Lab Sample ID: LCSD 680-444964/3 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 444964

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids	59.0	50.0		mg/L		85	80 - 120	0	25

Method: 350.1-1993 R2.0 - Nitrogen, Ammonia

Lab Sample ID: MB 680-445935/23 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445935

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.25	U	0.25	0.10	mg/L			08/16/16 11:31	1

Lab Sample ID: LCS 680-445935/24 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445935

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	0.998		mg/L		100	90 - 110

Lab Sample ID: LCSD 680-445935/2 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445935

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia	1.00	1.06		mg/L		106	90 - 110	6	30

Lab Sample ID: 680-128400-5 MS — **Client Sample ID: 1600780-MW-3**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445935

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	0.25	U F1	1.00	1.10		mg/L		110	90 - 110

Method: 350.1-1993 R2.0 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 680-128400-5 MSD — **Client Sample ID: 1600780-MW-3**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445935

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia	0.25	U F1	1.00	1.22	F1	mg/L		122	90 - 110	10	30

Lab Sample ID: MB 680-445936/11 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445936

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.25	U	0.25	0.10	mg/L			08/16/16 10:21	1

Lab Sample ID: LCS 680-445936/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445936

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.06		mg/L		106	90 - 110

Lab Sample ID: LCSD 680-445936/12 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445936

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia	1.00	1.06		mg/L		106	90 - 110	0	30

Method: 365.4-1974 - Phosphorus, Total

Lab Sample ID: MB 680-445866/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446104 — **Prep Batch: 445866**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	0.10	U	0.10	0.041	mg/L		08/16/16 09:35	08/17/16 10:49	1

Lab Sample ID: LCS 680-445866/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446104 — **Prep Batch: 445866**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	2.00	2.05		mg/L		103	60 - 140

Lab Sample ID: MB 680-446042/10-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446495 — **Prep Batch: 446042**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	0.10	U	0.10	0.041	mg/L		08/17/16 09:14	08/19/16 12:22	1

Method: 365.4-1974 - Phosphorus, Total (Continued)

Lab Sample ID: LCS 680-446042/11-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446353 — **Prep Batch: 446042**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	2.00	1.92		mg/L		96	60 - 140

Method: 376.1-1978 - Sulfide

Lab Sample ID: MB 680-445236/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445236

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	1.0	U	1.0	1.0	mg/L			08/11/16 07:50	1

Lab Sample ID: LCS 680-445236/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445236

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	10.0	10.5		mg/L		105	75 - 125

Lab Sample ID: 680-128400-3 DU — **Client Sample ID: 1600780-MW-19**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445236

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide	1.0	U	1.0	U	mg/L		NC	30

Lab Sample ID: MB 680-445269/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445269

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	1.0	U	1.0	1.0	mg/L			08/11/16 09:15	1

Lab Sample ID: LCS 680-445269/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445269

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	10.0	10.7		mg/L		107	75 - 125

Lab Sample ID: 680-128400-17 DU — **Client Sample ID: 1600780-MW-D**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 445269

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide	1.0	U	1.0	U	mg/L		NC	30

QC Association Summary

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

GC/MS VOA

Analysis Batch: 445638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128400-1	1600780-GSP-10	Total/NA	Water	8260B	
680-128400-2	1600780-MW-21	Total/NA	Water	8260B	
680-128400-3	1600780-MW-19	Total/NA	Water	8260B	
680-128400-4	1600780-MW-7	Total/NA	Water	8260B	
680-128400-5	1600780-MW-3	Total/NA	Water	8260B	
MB 680-445638/10	Method Blank	Total/NA	Water	8260B	
LCS 680-445638/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-445638/6	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 445889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128400-6	1600780-RW-2	Total/NA	Water	8260B	
680-128400-9	1600780-FB-4	Total/NA	Water	8260B	
680-128400-10	1600780-MW-24	Total/NA	Water	8260B	
680-128400-11	1600780-MW-15	Total/NA	Water	8260B	
680-128400-12	1600780-MW-13	Total/NA	Water	8260B	
680-128400-14	1600780-EB-1	Total/NA	Water	8260B	
680-128400-15	1600780-EB-2	Total/NA	Water	8260B	
680-128400-16	TRIP BLANK	Total/NA	Water	8260B	
680-128400-17	1600780-MW-D	Total/NA	Water	8260B	
MB 680-445889/9	Method Blank	Total/NA	Water	8260B	
LCS 680-445889/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-445889/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 446181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128400-11	1600780-MW-15	Total/NA	Water	8260B	
MB 680-446181/9	Method Blank	Total/NA	Water	8260B	
LCS 680-446181/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-446181/5	Lab Control Sample Dup	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 444887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128400-1	1600780-GSP-10	Total/NA	Water	3520C	
680-128400-2	1600780-MW-21	Total/NA	Water	3520C	
680-128400-2 - DL	1600780-MW-21	Total/NA	Water	3520C	
680-128400-3 - DL	1600780-MW-19	Total/NA	Water	3520C	
680-128400-3	1600780-MW-19	Total/NA	Water	3520C	
680-128400-4	1600780-MW-7	Total/NA	Water	3520C	
680-128400-4 - DL	1600780-MW-7	Total/NA	Water	3520C	
680-128400-5	1600780-MW-3	Total/NA	Water	3520C	
680-128400-6	1600780-RW-2	Total/NA	Water	3520C	
680-128400-7	1600780-RW-1	Total/NA	Water	3520C	
680-128400-10	1600780-MW-24	Total/NA	Water	3520C	
680-128400-10 - DL	1600780-MW-24	Total/NA	Water	3520C	
680-128400-12	1600780-MW-13	Total/NA	Water	3520C	
680-128400-12 - DL	1600780-MW-13	Total/NA	Water	3520C	
680-128400-14	1600780-EB-1	Total/NA	Water	3520C	

GC/MS Semi VOA (Continued)

Prep Batch: 444887 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128400-15	1600780-EB-2	Total/NA	Water	3520C	
680-128400-17	1600780-MW-D	Total/NA	Water	3520C	
MB 680-444887/13-A	Method Blank	Total/NA	Water	3520C	
LCS 680-444887/14-A	Lab Control Sample	Total/NA	Water	3520C	
680-128400-1 MS	1600780-GSP-10	Total/NA	Water	3520C	
680-128400-1 MSD	1600780-GSP-10	Total/NA	Water	3520C	

Analysis Batch: 445160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128400-2	1600780-MW-21	Total/NA	Water	8270D LL	444887
680-128400-3 - DL	1600780-MW-19	Total/NA	Water	8270D LL	444887
680-128400-4	1600780-MW-7	Total/NA	Water	8270D LL	444887
680-128400-5	1600780-MW-3	Total/NA	Water	8270D LL	444887
680-128400-6	1600780-RW-2	Total/NA	Water	8270D LL	444887
680-128400-7	1600780-RW-1	Total/NA	Water	8270D LL	444887
680-128400-10	1600780-MW-24	Total/NA	Water	8270D LL	444887
680-128400-12	1600780-MW-13	Total/NA	Water	8270D LL	444887
MB 680-444887/13-A	Method Blank	Total/NA	Water	8270D LL	444887
LCS 680-444887/14-A	Lab Control Sample	Total/NA	Water	8270D LL	444887

Analysis Batch: 445442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128400-1	1600780-GSP-10	Total/NA	Water	8270D LL	444887
680-128400-2 - DL	1600780-MW-21	Total/NA	Water	8270D LL	444887
680-128400-3	1600780-MW-19	Total/NA	Water	8270D LL	444887
680-128400-4 - DL	1600780-MW-7	Total/NA	Water	8270D LL	444887
680-128400-10 - DL	1600780-MW-24	Total/NA	Water	8270D LL	444887
680-128400-12 - DL	1600780-MW-13	Total/NA	Water	8270D LL	444887
680-128400-14	1600780-EB-1	Total/NA	Water	8270D LL	444887
680-128400-15	1600780-EB-2	Total/NA	Water	8270D LL	444887
680-128400-17	1600780-MW-D	Total/NA	Water	8270D LL	444887
680-128400-1 MS	1600780-GSP-10	Total/NA	Water	8270D LL	444887
680-128400-1 MSD	1600780-GSP-10	Total/NA	Water	8270D LL	444887

HPLC/IC

Analysis Batch: 444594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128400-1	1600780-GSP-10	Total/NA	Water	300.0-1993 R2.1	
680-128400-2	1600780-MW-21	Total/NA	Water	300.0-1993 R2.1	
680-128400-3	1600780-MW-19	Total/NA	Water	300.0-1993 R2.1	
680-128400-4	1600780-MW-7	Total/NA	Water	300.0-1993 R2.1	
680-128400-5	1600780-MW-3	Total/NA	Water	300.0-1993 R2.1	
680-128400-6	1600780-RW-2	Total/NA	Water	300.0-1993 R2.1	
680-128400-7	1600780-RW-1	Total/NA	Water	300.0-1993 R2.1	
680-128400-8	1600780-MW-22	Total/NA	Water	300.0-1993 R2.1	
680-128400-10	1600780-MW-24	Total/NA	Water	300.0-1993 R2.1	
680-128400-12	1600780-MW-13	Total/NA	Water	300.0-1993 R2.1	
680-128400-13	1600780-MW-20	Total/NA	Water	300.0-1993 R2.1	
680-128400-17	1600780-MW-D	Total/NA	Water	300.0-1993 R2.1	

HPLC/IC (Continued)

Analysis Batch: 444594 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-444594/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-444594/3	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-444594/4	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-128400-12 MS	1600780-MW-13	Total/NA	Water	300.0-1993 R2.1	
680-128400-12 MSD	1600780-MW-13	Total/NA	Water	300.0-1993 R2.1	
680-128400-L-4 MS	680-128400-L-4 MS	Total/NA	Water	300.0-1993 R2.1	
680-128400-L-4 MSD	680-128400-L-4 MSD	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 445916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128400-1	1600780-GSP-10	Total/NA	Water	300.0-1993 R2.1	
680-128400-2	1600780-MW-21	Total/NA	Water	300.0-1993 R2.1	
680-128400-3	1600780-MW-19	Total/NA	Water	300.0-1993 R2.1	
680-128400-4	1600780-MW-7	Total/NA	Water	300.0-1993 R2.1	
MB 680-445916/36	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-445916/37	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-445916/38	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 446056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128400-12	1600780-MW-13	Total/NA	Water	300.0-1993 R2.1	
680-128400-13	1600780-MW-20	Total/NA	Water	300.0-1993 R2.1	
680-128400-17	1600780-MW-D	Total/NA	Water	300.0-1993 R2.1	
MB 680-446056/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-446056/3	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-446056/4	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 446265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128400-1	1600780-GSP-10	Total/NA	Water	300.0-1993 R2.1	
680-128400-2	1600780-MW-21	Total/NA	Water	300.0-1993 R2.1	
680-128400-8	1600780-MW-22	Total/NA	Water	300.0-1993 R2.1	
MB 680-446265/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-446265/3	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-446265/4	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-128400-2 MS	1600780-MW-21	Total/NA	Water	300.0-1993 R2.1	
680-128400-2 MSD	1600780-MW-21	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 446278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128400-3	1600780-MW-19	Total/NA	Water	300.0-1993 R2.1	
680-128400-4	1600780-MW-7	Total/NA	Water	300.0-1993 R2.1	
680-128400-5	1600780-MW-3	Total/NA	Water	300.0-1993 R2.1	
680-128400-5	1600780-MW-3	Total/NA	Water	300.0-1993 R2.1	
680-128400-6	1600780-RW-2	Total/NA	Water	300.0-1993 R2.1	
680-128400-6	1600780-RW-2	Total/NA	Water	300.0-1993 R2.1	
680-128400-7	1600780-RW-1	Total/NA	Water	300.0-1993 R2.1	
680-128400-7	1600780-RW-1	Total/NA	Water	300.0-1993 R2.1	
680-128400-8	1600780-MW-22	Total/NA	Water	300.0-1993 R2.1	
680-128400-10	1600780-MW-24	Total/NA	Water	300.0-1993 R2.1	
MB 680-446278/36	Method Blank	Total/NA	Water	300.0-1993 R2.1	

HPLC/IC (Continued)

Analysis Batch: 446278 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-446278/37	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-446278/38	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-128400-3 MS	1600780-MW-19	Total/NA	Water	300.0-1993 R2.1	
680-128400-3 MSD	1600780-MW-19	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 446321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128400-10	1600780-MW-24	Total/NA	Water	300.0-1993 R2.1	
680-128400-12	1600780-MW-13	Total/NA	Water	300.0-1993 R2.1	
680-128400-13	1600780-MW-20	Total/NA	Water	300.0-1993 R2.1	
MB 680-446321/10	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-446321/11	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-446321/12	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-128400-13 MS	1600780-MW-20	Total/NA	Water	300.0-1993 R2.1	
680-128400-13 MSD	1600780-MW-20	Total/NA	Water	300.0-1993 R2.1	

Metals

Prep Batch: 444840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128400-1	1600780-GSP-10	Total/NA	Water	3010A	
680-128400-2	1600780-MW-21	Total/NA	Water	3010A	
680-128400-3	1600780-MW-19	Total/NA	Water	3010A	
680-128400-4	1600780-MW-7	Total/NA	Water	3010A	
680-128400-5	1600780-MW-3	Total/NA	Water	3010A	
680-128400-6	1600780-RW-2	Total/NA	Water	3010A	
680-128400-7	1600780-RW-1	Total/NA	Water	3010A	
680-128400-8	1600780-MW-22	Total/NA	Water	3010A	
680-128400-10	1600780-MW-24	Total/NA	Water	3010A	
680-128400-12	1600780-MW-13	Total/NA	Water	3010A	
680-128400-13	1600780-MW-20	Total/NA	Water	3010A	
680-128400-17	1600780-MW-D	Total/NA	Water	3010A	
MB 680-444840/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-444840/2-A	Lab Control Sample	Total/NA	Water	3010A	
680-128400-1 MS	1600780-GSP-10	Total/NA	Water	3010A	
680-128400-1 MSD	1600780-GSP-10	Total/NA	Water	3010A	

Prep Batch: 444960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128400-1	1600780-GSP-10	Total/NA	Water	7470A	
680-128400-2	1600780-MW-21	Total/NA	Water	7470A	
680-128400-3	1600780-MW-19	Total/NA	Water	7470A	
680-128400-4	1600780-MW-7	Total/NA	Water	7470A	
680-128400-5	1600780-MW-3	Total/NA	Water	7470A	
680-128400-6	1600780-RW-2	Total/NA	Water	7470A	
680-128400-7	1600780-RW-1	Total/NA	Water	7470A	
680-128400-8	1600780-MW-22	Total/NA	Water	7470A	
680-128400-10	1600780-MW-24	Total/NA	Water	7470A	
680-128400-12	1600780-MW-13	Total/NA	Water	7470A	
680-128400-13	1600780-MW-20	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 444960 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128400-17	1600780-MW-D	Total/NA	Water	7470A	
MB 680-444960/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-444960/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-128400-5 MS	1600780-MW-3	Total/NA	Water	7470A	
680-128400-5 MSD	1600780-MW-3	Total/NA	Water	7470A	

Analysis Batch: 445294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128400-1	1600780-GSP-10	Total/NA	Water	7470A	444960
680-128400-2	1600780-MW-21	Total/NA	Water	7470A	444960
680-128400-3	1600780-MW-19	Total/NA	Water	7470A	444960
680-128400-4	1600780-MW-7	Total/NA	Water	7470A	444960
680-128400-5	1600780-MW-3	Total/NA	Water	7470A	444960
680-128400-6	1600780-RW-2	Total/NA	Water	7470A	444960
680-128400-7	1600780-RW-1	Total/NA	Water	7470A	444960
680-128400-8	1600780-MW-22	Total/NA	Water	7470A	444960
680-128400-10	1600780-MW-24	Total/NA	Water	7470A	444960
680-128400-12	1600780-MW-13	Total/NA	Water	7470A	444960
680-128400-13	1600780-MW-20	Total/NA	Water	7470A	444960
680-128400-17	1600780-MW-D	Total/NA	Water	7470A	444960
MB 680-444960/1-A	Method Blank	Total/NA	Water	7470A	444960
LCS 680-444960/2-A	Lab Control Sample	Total/NA	Water	7470A	444960
680-128400-5 MS	1600780-MW-3	Total/NA	Water	7470A	444960
680-128400-5 MSD	1600780-MW-3	Total/NA	Water	7470A	444960

Analysis Batch: 445320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128400-1	1600780-GSP-10	Total/NA	Water	6010C	444840
680-128400-2	1600780-MW-21	Total/NA	Water	6010C	444840
680-128400-3	1600780-MW-19	Total/NA	Water	6010C	444840
680-128400-4	1600780-MW-7	Total/NA	Water	6010C	444840
680-128400-5	1600780-MW-3	Total/NA	Water	6010C	444840
680-128400-6	1600780-RW-2	Total/NA	Water	6010C	444840
680-128400-7	1600780-RW-1	Total/NA	Water	6010C	444840
680-128400-8	1600780-MW-22	Total/NA	Water	6010C	444840
680-128400-10	1600780-MW-24	Total/NA	Water	6010C	444840
680-128400-12	1600780-MW-13	Total/NA	Water	6010C	444840
680-128400-13	1600780-MW-20	Total/NA	Water	6010C	444840
680-128400-17	1600780-MW-D	Total/NA	Water	6010C	444840
MB 680-444840/1-A	Method Blank	Total/NA	Water	6010C	444840
LCS 680-444840/2-A	Lab Control Sample	Total/NA	Water	6010C	444840
680-128400-1 MS	1600780-GSP-10	Total/NA	Water	6010C	444840
680-128400-1 MSD	1600780-GSP-10	Total/NA	Water	6010C	444840

Analysis Batch: 446234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128400-1	1600780-GSP-10	Total/NA	Water	6010C	444840
680-128400-3	1600780-MW-19	Total/NA	Water	6010C	444840
680-128400-4	1600780-MW-7	Total/NA	Water	6010C	444840
680-128400-5	1600780-MW-3	Total/NA	Water	6010C	444840
680-128400-7	1600780-RW-1	Total/NA	Water	6010C	444840

Metals (Continued)

Analysis Batch: 446234 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128400-8	1600780-MW-22	Total/NA	Water	6010C	444840
680-128400-12	1600780-MW-13	Total/NA	Water	6010C	444840
680-128400-1 MS	1600780-GSP-10	Total/NA	Water	6010C	444840
680-128400-1 MSD	1600780-GSP-10	Total/NA	Water	6010C	444840

General Chemistry

Analysis Batch: 444932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128400-2	1600780-MW-21	Total/NA	Water	2540C-2011	
680-128400-3	1600780-MW-19	Total/NA	Water	2540C-2011	
680-128400-5	1600780-MW-3	Total/NA	Water	2540C-2011	
680-128400-6	1600780-RW-2	Total/NA	Water	2540C-2011	
680-128400-7	1600780-RW-1	Total/NA	Water	2540C-2011	
680-128400-8	1600780-MW-22	Total/NA	Water	2540C-2011	
680-128400-10	1600780-MW-24	Total/NA	Water	2540C-2011	
680-128400-12	1600780-MW-13	Total/NA	Water	2540C-2011	
680-128400-13	1600780-MW-20	Total/NA	Water	2540C-2011	
680-128400-17	1600780-MW-D	Total/NA	Water	2540C-2011	
MB 680-444932/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-444932/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-444932/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	

Analysis Batch: 444964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128400-4	1600780-MW-7	Total/NA	Water	2540C-2011	
MB 680-444964/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-444964/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-444964/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	

Analysis Batch: 445236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128400-2	1600780-MW-21	Total/NA	Water	376.1-1978	
680-128400-3	1600780-MW-19	Total/NA	Water	376.1-1978	
680-128400-4	1600780-MW-7	Total/NA	Water	376.1-1978	
680-128400-5	1600780-MW-3	Total/NA	Water	376.1-1978	
680-128400-6	1600780-RW-2	Total/NA	Water	376.1-1978	
MB 680-445236/1	Method Blank	Total/NA	Water	376.1-1978	
LCS 680-445236/2	Lab Control Sample	Total/NA	Water	376.1-1978	
680-128400-3 DU	1600780-MW-19	Total/NA	Water	376.1-1978	

Analysis Batch: 445269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128400-7	1600780-RW-1	Total/NA	Water	376.1-1978	
680-128400-8	1600780-MW-22	Total/NA	Water	376.1-1978	
680-128400-10	1600780-MW-24	Total/NA	Water	376.1-1978	
680-128400-12	1600780-MW-13	Total/NA	Water	376.1-1978	
680-128400-13	1600780-MW-20	Total/NA	Water	376.1-1978	
680-128400-17	1600780-MW-D	Total/NA	Water	376.1-1978	
MB 680-445269/1	Method Blank	Total/NA	Water	376.1-1978	

General Chemistry (Continued)

Analysis Batch: 445269 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-445269/2	Lab Control Sample	Total/NA	Water	376.1-1978	
680-128400-17 DU	1600780-MW-D	Total/NA	Water	376.1-1978	

Analysis Batch: 445358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-445358/7	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-445358/8	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-445358/27	Lab Control Sample Dup	Total/NA	Water	2320B-2011	

Analysis Batch: 445840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128400-3	1600780-MW-19	Total/NA	Water	2320B-2011	
MB 680-445840/7	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-445840/8	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-445840/34	Lab Control Sample Dup	Total/NA	Water	2320B-2011	

Analysis Batch: 445841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128400-2	1600780-MW-21	Total/NA	Water	2320B-2011	
MB 680-445841/3	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-445841/4	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-445841/30	Lab Control Sample Dup	Total/NA	Water	2320B-2011	

Prep Batch: 445866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128400-13	1600780-MW-20	Total/NA	Water	Digestion	
680-128400-17	1600780-MW-D	Total/NA	Water	Digestion	
MB 680-445866/1-A	Method Blank	Total/NA	Water	Digestion	
LCS 680-445866/2-A	Lab Control Sample	Total/NA	Water	Digestion	

Analysis Batch: 445935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128400-3	1600780-MW-19	Total/NA	Water	350.1-1993 R2.0	
680-128400-4	1600780-MW-7	Total/NA	Water	350.1-1993 R2.0	
680-128400-5	1600780-MW-3	Total/NA	Water	350.1-1993 R2.0	
680-128400-6	1600780-RW-2	Total/NA	Water	350.1-1993 R2.0	
680-128400-7	1600780-RW-1	Total/NA	Water	350.1-1993 R2.0	
680-128400-8	1600780-MW-22	Total/NA	Water	350.1-1993 R2.0	
680-128400-10	1600780-MW-24	Total/NA	Water	350.1-1993 R2.0	
680-128400-12	1600780-MW-13	Total/NA	Water	350.1-1993 R2.0	
680-128400-13	1600780-MW-20	Total/NA	Water	350.1-1993 R2.0	
680-128400-17	1600780-MW-D	Total/NA	Water	350.1-1993 R2.0	
MB 680-445935/23	Method Blank	Total/NA	Water	350.1-1993 R2.0	
LCS 680-445935/24	Lab Control Sample	Total/NA	Water	350.1-1993 R2.0	
LCSD 680-445935/2	Lab Control Sample Dup	Total/NA	Water	350.1-1993 R2.0	
680-128400-5 MS	1600780-MW-3	Total/NA	Water	350.1-1993 R2.0	
680-128400-5 MSD	1600780-MW-3	Total/NA	Water	350.1-1993 R2.0	

Analysis Batch: 445936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128400-2	1600780-MW-21	Total/NA	Water	350.1-1993 R2.0	

General Chemistry (Continued)

Analysis Batch: 445936 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-445936/11	Method Blank	Total/NA	Water	350.1-1993 R2.0	
LCS 680-445936/2	Lab Control Sample	Total/NA	Water	350.1-1993 R2.0	
LCSD 680-445936/12	Lab Control Sample Dup	Total/NA	Water	350.1-1993 R2.0	

Analysis Batch: 446016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128400-4	1600780-MW-7	Total/NA	Water	2320B-2011	
680-128400-5	1600780-MW-3	Total/NA	Water	2320B-2011	
680-128400-6	1600780-RW-2	Total/NA	Water	2320B-2011	
680-128400-7	1600780-RW-1	Total/NA	Water	2320B-2011	
680-128400-8	1600780-MW-22	Total/NA	Water	2320B-2011	
680-128400-10	1600780-MW-24	Total/NA	Water	2320B-2011	
680-128400-12	1600780-MW-13	Total/NA	Water	2320B-2011	
680-128400-13	1600780-MW-20	Total/NA	Water	2320B-2011	
680-128400-17	1600780-MW-D	Total/NA	Water	2320B-2011	
MB 680-446016/3	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-446016/4	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-446016/23	Lab Control Sample Dup	Total/NA	Water	2320B-2011	
680-128400-10 DU	1600780-MW-24	Total/NA	Water	2320B-2011	

Prep Batch: 446042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128400-2	1600780-MW-21	Total/NA	Water	Digestion	
680-128400-3	1600780-MW-19	Total/NA	Water	Digestion	
680-128400-4	1600780-MW-7	Total/NA	Water	Digestion	
680-128400-5	1600780-MW-3	Total/NA	Water	Digestion	
680-128400-6	1600780-RW-2	Total/NA	Water	Digestion	
680-128400-7	1600780-RW-1	Total/NA	Water	Digestion	
680-128400-8	1600780-MW-22	Total/NA	Water	Digestion	
680-128400-10	1600780-MW-24	Total/NA	Water	Digestion	
680-128400-12	1600780-MW-13	Total/NA	Water	Digestion	
MB 680-446042/10-A	Method Blank	Total/NA	Water	Digestion	
LCS 680-446042/11-A	Lab Control Sample	Total/NA	Water	Digestion	

Analysis Batch: 446104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128400-13	1600780-MW-20	Total/NA	Water	365.4-1974	445866
680-128400-17	1600780-MW-D	Total/NA	Water	365.4-1974	445866
MB 680-445866/1-A	Method Blank	Total/NA	Water	365.4-1974	445866
LCS 680-445866/2-A	Lab Control Sample	Total/NA	Water	365.4-1974	445866

Analysis Batch: 446353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128400-2	1600780-MW-21	Total/NA	Water	365.4-1974	446042
680-128400-3	1600780-MW-19	Total/NA	Water	365.4-1974	446042
680-128400-4	1600780-MW-7	Total/NA	Water	365.4-1974	446042
680-128400-5	1600780-MW-3	Total/NA	Water	365.4-1974	446042
680-128400-6	1600780-RW-2	Total/NA	Water	365.4-1974	446042
680-128400-7	1600780-RW-1	Total/NA	Water	365.4-1974	446042
680-128400-8	1600780-MW-22	Total/NA	Water	365.4-1974	446042
680-128400-10	1600780-MW-24	Total/NA	Water	365.4-1974	446042

General Chemistry (Continued)

Analysis Batch: 446353 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-128400-12	1600780-MW-13	Total/NA	Water	365.4-1974	446042
LCS 680-446042/11-A	Lab Control Sample	Total/NA	Water	365.4-1974	446042

Analysis Batch: 446495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-446042/10-A	Method Blank	Total/NA	Water	365.4-1974	446042

Client Sample ID: 1600780-GSP-10 — Lab Sample ID: 680-128400-1

Date Collected: 08/05/16 07:00 — **Matrix: Water**
Date Received: 08/06/16 09:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		25	5 mL	5 mL	445638	08/15/16 14:39	CEJ	TAL SAV
	Instrument ID:	CMSP2								
Total/NA	Prep	3520C			501.8 mL	.5 mL	444887	08/09/16 15:34	RBS	TAL SAV
Total/NA	Analysis	8270D LL		1			445442	08/12/16 12:27	JEM	TAL SAV
	Instrument ID:	CMSW								
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	444594	08/06/16 15:11	ALR	TAL SAV
	Instrument ID:	CICG								
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	445916	08/16/16 21:51	JRJ	TAL SAV
	Instrument ID:	CICK								
Total/NA	Analysis	300.0-1993 R2.1		5	5 mL	5 mL	446265	08/17/16 21:47	JRJ	TAL SAV
	Instrument ID:	CICK								
Total/NA	Prep	3010A			50 mL	50 mL	444840	08/08/16 18:02	AJR	TAL SAV
Total/NA	Analysis	6010C		1			445320	08/10/16 23:29	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Prep	3010A			50 mL	50 mL	444840	08/08/16 18:02	AJR	TAL SAV
Total/NA	Analysis	6010C		10			446234	08/18/16 00:21	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Prep	7470A			50 mL	50 mL	444960	08/09/16 13:30	JKL	TAL SAV
Total/NA	Analysis	7470A		1			445294	08/10/16 17:27	JKL	TAL SAV
	Instrument ID:	LEEMAN2								

Client Sample ID: 1600780-MW-21 — Lab Sample ID: 680-128400-2

Date Collected: 08/05/16 08:28 — **Matrix: Water**
Date Received: 08/06/16 09:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		200	5 mL	5 mL	445638	08/15/16 15:02	CEJ	TAL SAV
	Instrument ID:	CMSP2								
Total/NA	Prep	3520C			1047.1 mL	1 mL	444887	08/09/16 15:34	RBS	TAL SAV
Total/NA	Analysis	8270D LL		10			445160	08/10/16 18:45	JEM	TAL SAV
	Instrument ID:	CMSF								
Total/NA	Prep	3520C	DL		1047.1 mL	1 mL	444887	08/09/16 15:34	RBS	TAL SAV
Total/NA	Analysis	8270D LL	DL	100			445442	08/12/16 12:52	JEM	TAL SAV
	Instrument ID:	CMSW								
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	444594	08/06/16 15:28	ALR	TAL SAV
	Instrument ID:	CICG								
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	445916	08/16/16 22:08	JRJ	TAL SAV
	Instrument ID:	CICK								
Total/NA	Analysis	300.0-1993 R2.1		5	5 mL	5 mL	446265	08/17/16 22:04	JRJ	TAL SAV
	Instrument ID:	CICK								
Total/NA	Prep	3010A			50 mL	50 mL	444840	08/08/16 18:02	AJR	TAL SAV
Total/NA	Analysis	6010C		1			445320	08/10/16 23:50	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Prep	7470A			50 mL	50 mL	444960	08/09/16 13:30	JKL	TAL SAV

Lab Chronicle

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Client Sample ID: 1600780-MW-21

Lab Sample ID: 680-128400-2
Date Collected: 08/05/16 08:28
Matrix: Water
Date Received: 08/06/16 09:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7470A		1			445294	08/10/16 17:31	JKL	TAL SAV
	Instrument ID:	LEEMAN2								
Total/NA	Analysis	2320B-2011		1			445841	08/15/16 19:43	JCM	TAL SAV
	Instrument ID:	MANTECH								
Total/NA	Analysis	2540C-2011		1	50 mL	100 mL	444932	08/09/16 11:54	LAF	TAL SAV
	Instrument ID:	NOEQUIP								
Total/NA	Analysis	350.1-1993 R2.0		1	2 mL	2 mL	445936	08/16/16 10:21	ALS	TAL SAV
	Instrument ID:	KONELAB1								
Total/NA	Prep	Digestion			20 mL	20 mL	446042	08/17/16 09:14	CFJ	TAL SAV
Total/NA	Analysis	365.4-1974		1	2 mL	2 mL	446353	08/18/16 13:35	JER	TAL SAV
	Instrument ID:	LACHAT3								
Total/NA	Analysis	376.1-1978		1	250 mL	250 mL	445236	08/11/16 07:50	DAM	TAL SAV
	Instrument ID:	NOEQUIP								

Client Sample ID: 1600780-MW-19

Lab Sample ID: 680-128400-3
Date Collected: 08/05/16 08:44
Matrix: Water
Date Received: 08/06/16 09:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	5 mL	5 mL	445638	08/15/16 15:24	CEJ	TAL SAV
	Instrument ID:	CMSP2								
Total/NA	Prep	3520C	DL		1041.3 mL	1 mL	444887	08/09/16 15:34	RBS	TAL SAV
Total/NA	Analysis	8270D LL	DL	10			445160	08/10/16 19:11	JEM	TAL SAV
	Instrument ID:	CMSF								
Total/NA	Prep	3520C			1041.3 mL	1 mL	444887	08/09/16 15:34	RBS	TAL SAV
Total/NA	Analysis	8270D LL		1			445442	08/12/16 13:17	JEM	TAL SAV
	Instrument ID:	CMSW								
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	444594	08/06/16 15:44	ALR	TAL SAV
	Instrument ID:	CICG								
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	445916	08/16/16 22:25	JRJ	TAL SAV
	Instrument ID:	CICK								
Total/NA	Analysis	300.0-1993 R2.1		5	5 mL	5 mL	446278	08/18/16 01:03	JRJ	TAL SAV
	Instrument ID:	CICL								
Total/NA	Prep	3010A			50 mL	50 mL	444840	08/08/16 18:02	AJR	TAL SAV
Total/NA	Analysis	6010C		1			445320	08/10/16 23:54	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Prep	3010A			50 mL	50 mL	444840	08/08/16 18:02	AJR	TAL SAV
Total/NA	Analysis	6010C		10			446234	08/18/16 00:43	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Prep	7470A			50 mL	50 mL	444960	08/09/16 13:30	JKL	TAL SAV
Total/NA	Analysis	7470A		1			445294	08/10/16 17:36	JKL	TAL SAV
	Instrument ID:	LEEMAN2								
Total/NA	Analysis	2320B-2011		1			445840	08/15/16 18:11	JCM	TAL SAV
	Instrument ID:	MANTECH								

Lab Chronicle

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540C-2011		1	50 mL	100 mL	444932	08/09/16 11:54	LAF	TAL SAV
	Instrument ID:	NOEQUIP								
Total/NA	Analysis	350.1-1993 R2.0		1	2 mL	2 mL	445935	08/16/16 10:40	ALS	TAL SAV
	Instrument ID:	KONELAB1								
Total/NA	Prep	Digestion			20 mL	20 mL	446042	08/17/16 09:14	CFJ	TAL SAV
Total/NA	Analysis	365.4-1974		1	2 mL	2 mL	446353	08/18/16 13:49	JER	TAL SAV
	Instrument ID:	LACHAT3								
Total/NA	Analysis	376.1-1978		1	250 mL	250 mL	445236	08/11/16 07:50	DAM	TAL SAV
	Instrument ID:	NOEQUIP								

Client Sample ID: 1600780-MW-7

Lab Sample ID: 680-128400-4

Date Collected: 08/05/16 08:30

Matrix: Water

Date Received: 08/06/16 09:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		200	5 mL	5 mL	445638	08/15/16 15:47	CEJ	TAL SAV
	Instrument ID:	CMSP2								
Total/NA	Prep	3520C			1018.3 mL	1 mL	444887	08/09/16 15:34	RBS	TAL SAV
Total/NA	Analysis	8270D LL		10			445160	08/10/16 19:38	JEM	TAL SAV
	Instrument ID:	CMSF								
Total/NA	Prep	3520C	DL		1018.3 mL	1 mL	444887	08/09/16 15:34	RBS	TAL SAV
Total/NA	Analysis	8270D LL	DL	100			445442	08/12/16 13:42	JEM	TAL SAV
	Instrument ID:	CMSW								
Total/NA	Analysis	300.0-1993 R2.1		2	5 mL	5 mL	444594	08/06/16 16:01	ALR	TAL SAV
	Instrument ID:	CICG								
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	445916	08/16/16 22:43	JRJ	TAL SAV
	Instrument ID:	CICK								
Total/NA	Analysis	300.0-1993 R2.1		25	5 mL	5 mL	446278	08/18/16 01:55	JRJ	TAL SAV
	Instrument ID:	CICL								
Total/NA	Prep	3010A			50 mL	50 mL	444840	08/08/16 18:02	AJR	TAL SAV
Total/NA	Analysis	6010C		1			445320	08/10/16 23:58	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Prep	3010A			50 mL	50 mL	444840	08/08/16 18:02	AJR	TAL SAV
Total/NA	Analysis	6010C		10			446234	08/18/16 00:47	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Prep	7470A			50 mL	50 mL	444960	08/09/16 13:30	JKL	TAL SAV
Total/NA	Analysis	7470A		1			445294	08/10/16 17:41	JKL	TAL SAV
	Instrument ID:	LEEMAN2								
Total/NA	Analysis	2320B-2011		1			446016	08/16/16 20:08	JCM	TAL SAV
	Instrument ID:	MANTECH								
Total/NA	Analysis	2540C-2011		1	25 mL	100 mL	444964	08/09/16 13:37	LAF	TAL SAV
	Instrument ID:	NOEQUIP								
Total/NA	Analysis	350.1-1993 R2.0		1	2 mL	2 mL	445935	08/16/16 10:40	ALS	TAL SAV
	Instrument ID:	KONELAB1								
Total/NA	Prep	Digestion			20 mL	20 mL	446042	08/17/16 09:14	CFJ	TAL SAV
Total/NA	Analysis	365.4-1974		1	2 mL	2 mL	446353	08/18/16 13:43	JER	TAL SAV
	Instrument ID:	LACHAT3								

Lab Chronicle

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Client Sample ID: 1600780-MW-7

Lab Sample ID: 680-128400-4
Date Collected: 08/05/16 08:30
Matrix: Water
Date Received: 08/06/16 09:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	376.1-1978		1	250 mL	250 mL	445236	08/11/16 07:50	DAM	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: 1600780-MW-3

Lab Sample ID: 680-128400-5
Date Collected: 08/05/16 09:57
Matrix: Water
Date Received: 08/06/16 09:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	5 mL	5 mL	445638	08/15/16 16:09	CEJ	TAL SAV
	Instrument ID: CMSP2									
Total/NA	Prep	3520C			1047.1 mL	1 mL	444887	08/09/16 15:34	RBS	TAL SAV
Total/NA	Analysis	8270D LL		10			445160	08/10/16 20:04	JEM	TAL SAV
	Instrument ID: CMSF									
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	444594	08/06/16 17:06	ALR	TAL SAV
	Instrument ID: CICG									
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	446278	08/17/16 22:43	JRJ	TAL SAV
	Instrument ID: CICL									
Total/NA	Analysis	300.0-1993 R2.1		5	5 mL	5 mL	446278	08/18/16 02:12	JRJ	TAL SAV
	Instrument ID: CICL									
Total/NA	Prep	3010A			50 mL	50 mL	444840	08/08/16 18:02	AJR	TAL SAV
Total/NA	Analysis	6010C		1			445320	08/11/16 00:02	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Prep	3010A			50 mL	50 mL	444840	08/08/16 18:02	AJR	TAL SAV
Total/NA	Analysis	6010C		10			446234	08/18/16 00:52	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Prep	7470A			50 mL	50 mL	444960	08/09/16 13:30	JKL	TAL SAV
Total/NA	Analysis	7470A		1			445294	08/10/16 17:45	JKL	TAL SAV
	Instrument ID: LEEMAN2									
Total/NA	Analysis	2320B-2011		1			446016	08/16/16 20:17	JCM	TAL SAV
	Instrument ID: MANTECH									
Total/NA	Analysis	2540C-2011		1	50 mL	100 mL	444932	08/09/16 11:54	LAF	TAL SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	350.1-1993 R2.0		1	2 mL	2 mL	445935	08/16/16 10:30	ALS	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Prep	Digestion			20 mL	20 mL	446042	08/17/16 09:14	CFJ	TAL SAV
Total/NA	Analysis	365.4-1974		1	2 mL	2 mL	446353	08/18/16 13:53	JER	TAL SAV
	Instrument ID: LACHAT3									
Total/NA	Analysis	376.1-1978		1	250 mL	250 mL	445236	08/11/16 07:50	DAM	TAL SAV
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Client Sample ID: 1600780-RW-2

Lab Sample ID: 680-128400-6
Date Collected: 08/05/16 11:02
Matrix: Water
Date Received: 08/06/16 09:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	5 mL	5 mL	445889	08/16/16 18:18	CMB	TAL SAV
	Instrument ID:	CMSP2								
Total/NA	Prep	3520C			1042.5 mL	1 mL	444887	08/09/16 15:34	RBS	TAL SAV
Total/NA	Analysis	8270D LL		10			445160	08/10/16 20:30	JEM	TAL SAV
	Instrument ID:	CMSF								
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	444594	08/06/16 17:23	ALR	TAL SAV
	Instrument ID:	CICG								
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	446278	08/17/16 23:01	JRJ	TAL SAV
	Instrument ID:	CICL								
Total/NA	Analysis	300.0-1993 R2.1		5	5 mL	5 mL	446278	08/18/16 02:30	JRJ	TAL SAV
	Instrument ID:	CICL								
Total/NA	Prep	3010A			50 mL	50 mL	444840	08/08/16 18:02	AJR	TAL SAV
Total/NA	Analysis	6010C		1			445320	08/11/16 00:07	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Prep	7470A			50 mL	50 mL	444960	08/09/16 13:30	JKL	TAL SAV
Total/NA	Analysis	7470A		1			445294	08/10/16 17:59	JKL	TAL SAV
	Instrument ID:	LEEMAN2								
Total/NA	Analysis	2320B-2011		1			446016	08/16/16 20:30	JCM	TAL SAV
	Instrument ID:	MANTECH								
Total/NA	Analysis	2540C-2011		1	50 mL	100 mL	444932	08/09/16 11:54	LAF	TAL SAV
	Instrument ID:	NOEQUIP								
Total/NA	Analysis	350.1-1993 R2.0		1	2 mL	2 mL	445935	08/16/16 10:40	ALS	TAL SAV
	Instrument ID:	KONELAB1								
Total/NA	Prep	Digestion			20 mL	20 mL	446042	08/17/16 09:14	CFJ	TAL SAV
Total/NA	Analysis	365.4-1974		1	2 mL	2 mL	446353	08/18/16 13:45	JER	TAL SAV
	Instrument ID:	LACHAT3								
Total/NA	Analysis	376.1-1978		1	250 mL	250 mL	445236	08/11/16 07:50	DAM	TAL SAV
	Instrument ID:	NOEQUIP								

Client Sample ID: 1600780-RW-1

Lab Sample ID: 680-128400-7
Date Collected: 08/05/16 11:30
Matrix: Water
Date Received: 08/06/16 09:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			965.3 mL	1 mL	444887	08/09/16 15:34	RBS	TAL SAV
Total/NA	Analysis	8270D LL		10			445160	08/10/16 20:56	JEM	TAL SAV
	Instrument ID:	CMSF								
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	444594	08/06/16 17:39	ALR	TAL SAV
	Instrument ID:	CICG								
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	446278	08/17/16 23:18	JRJ	TAL SAV
	Instrument ID:	CICL								
Total/NA	Analysis	300.0-1993 R2.1		4	5 mL	5 mL	446278	08/18/16 02:47	JRJ	TAL SAV
	Instrument ID:	CICL								

Lab Chronicle

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Client Sample ID: 1600780-RW-1

Lab Sample ID: 680-128400-7
Date Collected: 08/05/16 11:30
Matrix: Water
Date Received: 08/06/16 09:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	444840	08/08/16 18:02	AJR	TAL SAV
Total/NA	Analysis	6010C		1			445320	08/11/16 00:19	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Prep	3010A			50 mL	50 mL	444840	08/08/16 18:02	AJR	TAL SAV
Total/NA	Analysis	6010C		10			446234	08/18/16 01:05	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Prep	7470A			50 mL	50 mL	444960	08/09/16 13:30	JKL	TAL SAV
Total/NA	Analysis	7470A		1			445294	08/10/16 18:03	JKL	TAL SAV
	Instrument ID:	LEEMAN2								
Total/NA	Analysis	2320B-2011		1			446016	08/16/16 20:42	JCM	TAL SAV
	Instrument ID:	MANTECH								
Total/NA	Analysis	2540C-2011		1	50 mL	100 mL	444932	08/09/16 11:54	LAF	TAL SAV
	Instrument ID:	NOEQUIP								
Total/NA	Analysis	350.1-1993 R2.0		1	2 mL	2 mL	445935	08/16/16 10:40	ALS	TAL SAV
	Instrument ID:	KONELAB1								
Total/NA	Prep	Digestion			20 mL	20 mL	446042	08/17/16 09:14	CFJ	TAL SAV
Total/NA	Analysis	365.4-1974		1	2 mL	2 mL	446353	08/18/16 13:52	JER	TAL SAV
	Instrument ID:	LACHAT3								
Total/NA	Analysis	376.1-1978		1	250 mL	250 mL	445269	08/11/16 09:15	DAM	TAL SAV
	Instrument ID:	NOEQUIP								

Client Sample ID: 1600780-MW-22

Lab Sample ID: 680-128400-8
Date Collected: 08/05/16 12:37
Matrix: Water
Date Received: 08/06/16 09:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	444594	08/06/16 18:28	ALR	TAL SAV
	Instrument ID:	CICG								
Total/NA	Analysis	300.0-1993 R2.1		10	5 mL	5 mL	446265	08/17/16 22:56	JRJ	TAL SAV
	Instrument ID:	CICK								
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	446278	08/18/16 00:10	JRJ	TAL SAV
	Instrument ID:	CICL								
Total/NA	Prep	3010A			50 mL	50 mL	444840	08/08/16 18:02	AJR	TAL SAV
Total/NA	Analysis	6010C		1			445320	08/11/16 00:23	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Prep	3010A			50 mL	50 mL	444840	08/08/16 18:02	AJR	TAL SAV
Total/NA	Analysis	6010C		10			446234	08/18/16 01:09	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Prep	7470A			50 mL	50 mL	444960	08/09/16 13:30	JKL	TAL SAV
Total/NA	Analysis	7470A		1			445294	08/10/16 18:17	JKL	TAL SAV
	Instrument ID:	LEEMAN2								
Total/NA	Analysis	2320B-2011		1			446016	08/16/16 20:53	JCM	TAL SAV
	Instrument ID:	MANTECH								

Lab Chronicle

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Client Sample ID: 1600780-MW-22 — Lab Sample ID: 680-128400-8

Date Collected: 08/05/16 12:37 — **Matrix: Water**
Date Received: 08/06/16 09:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540C-2011		1	50 mL	100 mL	444932	08/09/16 11:54	LAF	TAL SAV
	Instrument ID:	NOEQUIP								
Total/NA	Analysis	350.1-1993 R2.0		1	2 mL	2 mL	445935	08/16/16 10:40	ALS	TAL SAV
	Instrument ID:	KONELAB1								
Total/NA	Prep	Digestion			20 mL	20 mL	446042	08/17/16 09:14	CFJ	TAL SAV
Total/NA	Analysis	365.4-1974		1	2 mL	2 mL	446353	08/18/16 13:40	JER	TAL SAV
	Instrument ID:	LACHAT3								
Total/NA	Analysis	376.1-1978		1	250 mL	250 mL	445269	08/11/16 09:15	DAM	TAL SAV
	Instrument ID:	NOEQUIP								

Client Sample ID: 1600780-FB-4 — Lab Sample ID: 680-128400-9

Date Collected: 08/05/16 13:30 — **Matrix: Water**
Date Received: 08/06/16 09:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	445889	08/16/16 16:26	CMB	TAL SAV
	Instrument ID:	CMSP2								

Client Sample ID: 1600780-MW-24 — Lab Sample ID: 680-128400-10

Date Collected: 08/05/16 13:40 — **Matrix: Water**
Date Received: 08/06/16 09:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		100	5 mL	5 mL	445889	08/16/16 18:41	CMB	TAL SAV
	Instrument ID:	CMSP2								
Total/NA	Prep	3520C			1040.6 mL	1 mL	444887	08/09/16 15:34	RBS	TAL SAV
Total/NA	Analysis	8270D LL		10			445160	08/10/16 21:22	JEM	TAL SAV
	Instrument ID:	CMSF								
Total/NA	Prep	3520C	DL		1040.6 mL	1 mL	444887	08/09/16 15:34	RBS	TAL SAV
Total/NA	Analysis	8270D LL	DL	100			445442	08/12/16 15:22	JEM	TAL SAV
	Instrument ID:	CMSW								
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	444594	08/06/16 18:45	ALR	TAL SAV
	Instrument ID:	CICG								
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	446278	08/18/16 00:28	JRJ	TAL SAV
	Instrument ID:	CICL								
Total/NA	Analysis	300.0-1993 R2.1		5	5 mL	5 mL	446321	08/18/16 14:21	JRJ	TAL SAV
	Instrument ID:	CICL								
Total/NA	Prep	3010A			50 mL	50 mL	444840	08/08/16 18:02	AJR	TAL SAV
Total/NA	Analysis	6010C		1			445320	08/11/16 00:28	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Prep	7470A			50 mL	50 mL	444960	08/09/16 13:30	JKL	TAL SAV
Total/NA	Analysis	7470A		1			445294	08/10/16 18:21	JKL	TAL SAV
	Instrument ID:	LEEMAN2								

Lab Chronicle

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Client Sample ID: 1600780-MW-24 — Lab Sample ID: 680-128400-10

Date Collected: 08/05/16 13:40 — **Matrix: Water**
Date Received: 08/06/16 09:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2320B-2011		1			446016	08/16/16 21:05	JCM	TAL SAV
	Instrument ID:	MANTECH								
Total/NA	Analysis	2540C-2011		1	50 mL	100 mL	444932	08/09/16 11:54	LAF	TAL SAV
	Instrument ID:	NOEQUIP								
Total/NA	Analysis	350.1-1993 R2.0		1	2 mL	2 mL	445935	08/16/16 10:49	ALS	TAL SAV
	Instrument ID:	KONELAB1								
Total/NA	Prep	Digestion			20 mL	20 mL	446042	08/17/16 09:14	CFJ	TAL SAV
Total/NA	Analysis	365.4-1974		1	2 mL	2 mL	446353	08/18/16 13:38	JER	TAL SAV
	Instrument ID:	LACHAT3								
Total/NA	Analysis	376.1-1978		1	250 mL	250 mL	445269	08/11/16 09:15	DAM	TAL SAV
	Instrument ID:	NOEQUIP								

Client Sample ID: 1600780-MW-15 — Lab Sample ID: 680-128400-11

Date Collected: 08/05/16 13:40 — **Matrix: Water**
Date Received: 08/06/16 09:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	5 mL	5 mL	446181	08/17/16 23:35	CEJ	TAL SAV
	Instrument ID:	CMSA2								
Total/NA	Analysis	8260B		25	5 mL	5 mL	445889	08/16/16 19:03	CMB	TAL SAV
	Instrument ID:	CMSP2								

Client Sample ID: 1600780-MW-13 — Lab Sample ID: 680-128400-12

Date Collected: 08/05/16 14:47 — **Matrix: Water**
Date Received: 08/06/16 09:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		100	5 mL	5 mL	445889	08/16/16 19:26	CMB	TAL SAV
	Instrument ID:	CMSP2								
Total/NA	Prep	3520C			1044.5 mL	1 mL	444887	08/09/16 15:34	RBS	TAL SAV
Total/NA	Analysis	8270D LL		10			445160	08/10/16 21:48	JEM	TAL SAV
	Instrument ID:	CMSF								
Total/NA	Prep	3520C	DL		1044.5 mL	1 mL	444887	08/09/16 15:34	RBS	TAL SAV
Total/NA	Analysis	8270D LL	DL	100			445442	08/12/16 15:47	JEM	TAL SAV
	Instrument ID:	CMSW								
Total/NA	Analysis	300.0-1993 R2.1		10	5 mL	5 mL	444594	08/06/16 19:01	ALR	TAL SAV
	Instrument ID:	CICG								
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	446056	08/17/16 12:17	JRJ	TAL SAV
	Instrument ID:	CICL								
Total/NA	Analysis	300.0-1993 R2.1		25	5 mL	5 mL	446321	08/18/16 14:38	JRJ	TAL SAV
	Instrument ID:	CICL								
Total/NA	Prep	3010A			50 mL	50 mL	444840	08/08/16 18:02	AJR	TAL SAV

Client Sample ID: 1600780-MW-13 — Lab Sample ID: 680-128400-12

Date Collected: 08/05/16 14:47 — **Matrix: Water**
Date Received: 08/06/16 09:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		1			445320	08/11/16 00:32	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Prep	3010A			50 mL	50 mL	444840	08/08/16 18:02	AJR	TAL SAV
Total/NA	Analysis	6010C		10			446234	08/18/16 01:14	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Prep	7470A			50 mL	50 mL	444960	08/09/16 13:30	JKL	TAL SAV
Total/NA	Analysis	7470A		1			445294	08/10/16 18:26	JKL	TAL SAV
	Instrument ID:	LEEMAN2								
Total/NA	Analysis	2320B-2011		1			446016	08/16/16 21:30	JCM	TAL SAV
	Instrument ID:	MANTECH								
Total/NA	Analysis	2540C-2011		1	50 mL	100 mL	444932	08/09/16 11:54	LAF	TAL SAV
	Instrument ID:	NOEQUIP								
Total/NA	Analysis	350.1-1993 R2.0		1	2 mL	2 mL	445935	08/16/16 10:49	ALS	TAL SAV
	Instrument ID:	KONELAB1								
Total/NA	Prep	Digestion			20 mL	20 mL	446042	08/17/16 09:14	CFJ	TAL SAV
Total/NA	Analysis	365.4-1974		1	2 mL	2 mL	446353	08/18/16 13:44	JER	TAL SAV
	Instrument ID:	LACHAT3								
Total/NA	Analysis	376.1-1978		1	250 mL	250 mL	445269	08/11/16 09:15	DAM	TAL SAV
	Instrument ID:	NOEQUIP								

Client Sample ID: 1600780-MW-20 — Lab Sample ID: 680-128400-13

Date Collected: 08/05/16 15:20 — **Matrix: Water**
Date Received: 08/06/16 09:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	444594	08/06/16 19:50	ALR	TAL SAV
	Instrument ID:	CICG								
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	446056	08/17/16 12:34	JRJ	TAL SAV
	Instrument ID:	CICL								
Total/NA	Analysis	300.0-1993 R2.1		4	5 mL	5 mL	446321	08/18/16 13:29	JRJ	TAL SAV
	Instrument ID:	CICL								
Total/NA	Prep	3010A			50 mL	50 mL	444840	08/08/16 18:02	AJR	TAL SAV
Total/NA	Analysis	6010C		1			445320	08/11/16 00:36	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Prep	7470A			50 mL	50 mL	444960	08/09/16 13:30	JKL	TAL SAV
Total/NA	Analysis	7470A		1			445294	08/10/16 18:31	JKL	TAL SAV
	Instrument ID:	LEEMAN2								
Total/NA	Analysis	2320B-2011		1			446016	08/16/16 21:34	JCM	TAL SAV
	Instrument ID:	MANTECH								
Total/NA	Analysis	2540C-2011		1	50 mL	100 mL	444932	08/09/16 11:54	LAF	TAL SAV
	Instrument ID:	NOEQUIP								
Total/NA	Analysis	350.1-1993 R2.0		1	2 mL	2 mL	445935	08/16/16 10:49	ALS	TAL SAV
	Instrument ID:	KONELAB1								

Lab Chronicle

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Client Sample ID: 1600780-MW-20 — Lab Sample ID: 680-128400-13

Date Collected: 08/05/16 15:20 — **Matrix: Water**
Date Received: 08/06/16 09:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Digestion			20 mL	20 mL	445866	08/16/16 09:35	CFJ	TAL SAV
Total/NA	Analysis	365.4-1974		1	2 mL	2 mL	446104	08/17/16 11:14	JER	TAL SAV
	Instrument ID:	LACHAT3								
Total/NA	Analysis	376.1-1978		1	250 mL	250 mL	445269	08/11/16 09:15	DAM	TAL SAV
	Instrument ID:	NOEQUIP								

Client Sample ID: 1600780-EB-1 — Lab Sample ID: 680-128400-14

Date Collected: 08/05/16 15:46 — **Matrix: Water**
Date Received: 08/06/16 09:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	445889	08/16/16 16:49	CMB	TAL SAV
	Instrument ID:	CMSP2								
Total/NA	Prep	3520C			1037.3 mL	1 mL	444887	08/09/16 15:34	RBS	TAL SAV
Total/NA	Analysis	8270D LL		1			445442	08/12/16 16:12	JEM	TAL SAV
	Instrument ID:	CMSW								

Client Sample ID: 1600780-EB-2 — Lab Sample ID: 680-128400-15

Date Collected: 08/05/16 16:30 — **Matrix: Water**
Date Received: 08/06/16 09:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	445889	08/16/16 17:11	CMB	TAL SAV
	Instrument ID:	CMSP2								
Total/NA	Prep	3520C			1028.7 mL	1 mL	444887	08/09/16 15:34	RBS	TAL SAV
Total/NA	Analysis	8270D LL		1			445442	08/12/16 16:37	JEM	TAL SAV
	Instrument ID:	CMSW								

Client Sample ID: TRIP BLANK — Lab Sample ID: 680-128400-16

Date Collected: 08/05/16 00:00 — **Matrix: Water**
Date Received: 08/06/16 09:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	445889	08/16/16 14:34	CMB	TAL SAV
	Instrument ID:	CMSP2								

Client Sample ID: 1600780-MW-D — Lab Sample ID: 680-128400-17

Date Collected: 08/05/16 13:33 — **Matrix: Water**
Date Received: 08/06/16 09:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	445889	08/16/16 19:48	CMB	TAL SAV
	Instrument ID:	CMSP2								

Lab Chronicle

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Client Sample ID: 1600780-MW-D

Date Collected: 08/05/16 13:33
Date Received: 08/06/16 09:44

Lab Sample ID: 680-128400-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			500.1 mL	.5 mL	444887	08/09/16 15:34	RBS	TAL SAV
Total/NA	Analysis	8270D LL		1			445442	08/12/16 17:02	JEM	TAL SAV
	Instrument ID:	CMSW								
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	444594	08/06/16 20:07	ALR	TAL SAV
	Instrument ID:	CICG								
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	446056	08/17/16 12:51	JRJ	TAL SAV
	Instrument ID:	CICL								
Total/NA	Prep	3010A			50 mL	50 mL	444840	08/08/16 18:02	AJR	TAL SAV
Total/NA	Analysis	6010C		1			445320	08/11/16 00:40	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Prep	7470A			50 mL	50 mL	444960	08/09/16 13:30	JKL	TAL SAV
Total/NA	Analysis	7470A		1			445294	08/10/16 18:35	JKL	TAL SAV
	Instrument ID:	LEEMAN2								
Total/NA	Analysis	2320B-2011		1			446016	08/16/16 21:44	JCM	TAL SAV
	Instrument ID:	MANTECH								
Total/NA	Analysis	2540C-2011		1	50 mL	100 mL	444932	08/09/16 11:54	LAF	TAL SAV
	Instrument ID:	NOEQUIP								
Total/NA	Analysis	350.1-1993 R2.0		1	2 mL	2 mL	445935	08/16/16 10:49	ALS	TAL SAV
	Instrument ID:	KONELAB1								
Total/NA	Prep	Digestion			20 mL	20 mL	445866	08/16/16 09:35	CFJ	TAL SAV
Total/NA	Analysis	365.4-1974		10	2 mL	2 mL	446104	08/17/16 11:53	JER	TAL SAV
	Instrument ID:	LACHAT3								
Total/NA	Analysis	376.1-1978		1	250 mL	250 mL	445269	08/11/16 09:15	DAM	TAL SAV
	Instrument ID:	NOEQUIP								

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Certification Summary

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-17
A2LA	ISO/IEC 17025		399.01	02-28-17
Alabama	State Program	4	41450	06-30-17
Alaska (UST)	State Program	10	UST-104	11-05-16
Arkansas DEQ	State Program	6	88-0692	01-31-17
California	State Program	9	2939	07-31-16 *
Colorado	State Program	8	N/A	12-31-16
Connecticut	State Program	1	PH-0161	03-31-17
Florida	NELAP	4	E87052	06-30-17
GA Dept. of Agriculture	State Program	4	N/A	06-12-17
Georgia	State Program	4	N/A	06-30-17
Georgia	State Program	4	803	06-30-17
Guam	State Program	9	15-005r	04-16-17
Hawaii	State Program	9	N/A	06-30-17
Illinois	NELAP	5	200022	11-30-16
Indiana	State Program	5	N/A	06-30-17
Iowa	State Program	7	353	06-30-17
Kentucky (DW)	State Program	4	90084	12-31-16
Kentucky (UST)	State Program	4	18	06-30-17
Kentucky (WW)	State Program	4	90084	12-31-16
Louisiana	NELAP	6	30690	06-30-17
Louisiana (DW)	NELAP	6	LA160019	12-31-16
Maine	State Program	1	GA00006	09-24-18
Maryland	State Program	3	250	12-31-16
Massachusetts	State Program	1	M-GA006	06-30-17
Michigan	State Program	5	9925	06-30-17
Mississippi	State Program	4	N/A	06-30-16 *
Nebraska	State Program	7	TestAmerica-Savannah	06-30-17
New Jersey	NELAP	2	GA769	06-30-17
New Mexico	State Program	6	N/A	06-30-17
New York	NELAP	2	10842	03-31-17
North Carolina (DW)	State Program	4	13701	07-31-17
North Carolina (WW/SW)	State Program	4	269	12-31-16
Oklahoma	State Program	6	9984	08-31-17
Pennsylvania	NELAP	3	68-00474	06-30-17
Puerto Rico	State Program	2	GA00006	12-31-16
South Carolina	State Program	4	98001	06-30-17
Tennessee	State Program	4	TN02961	06-30-17
Texas	NELAP	6	T104704185-15-8	11-30-16
USDA	Federal		SAV 3-04	06-11-17
Virginia	NELAP	3	460161	06-14-17
Washington	State Program	10	C805	06-10-17
West Virginia (DW)	State Program	3	9950C	12-31-16
West Virginia DEP	State Program	3	094	08-31-16
Wisconsin	State Program	5	999819810	08-31-17
Wyoming	State Program	8	8TMS-L	06-30-16 *

* Certification renewal pending - certification considered valid.

Method Summary

Client: GEI Consultants, Inc.
Project/Site: Zill LLC

TestAmerica Job ID: 680-128400-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL SAV
300.0-1993 R2.1	Anions, Ion Chromatography	MCAWW	TAL SAV
6010C	Metals (ICP)	SW846	TAL SAV
7470A	Mercury (CVAA)	SW846	TAL SAV
2320B-2011	Alkalinity, Total	SM	TAL SAV
2540C-2011	Total Dissolved Solids (Dried at 180 °C)	SM	TAL SAV
350.1-1993 R2.0	Nitrogen, Ammonia	MCAWW	TAL SAV
365.4-1974	Phosphorus, Total	EPA	TAL SAV
376.1-1978	Sulfide	MCAWW	TAL SAV

Protocol References:

EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater",
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number 110140

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Lab Proj # 65016768

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: Zill LLC (GEI)	PROJECT NO.: 1600780	PROJECT LOCATION (STATE): MO	PAGE 1 OF 2
TAL (LAB) PROJECT MANAGER: Kathy Smith	P.O. NUMBER	CONTRACT NO.	STANDARD REPORT DELIVERY ●
CLIENT (SITE) PM: Lisa Reyenga	CLIENT PHONE: 817-380-3901	CLIENT FAX	DATE DUE
CLIENT NAME: GEI Consultants	CLIENT E-MAIL: lreyenga@geiconsultants.com		EXPEDITED REPORT DELIVERY (SURCHARGE) ○
CLIENT ADDRESS: 4601 DTC Blvd #900 Denver CO 80237			DATE DUE
COMPANY CONTRACTING THIS WORK (if applicable)			NUMBER OF COOLERS SUBMITTED PER SHIPMENT

MATRIX TYPE — COMPOSITE (C) OR GRAB (G) INDICATE

REQUIRED ANALYSIS: 8260, 8270, PP Metals, EPA 6010, Nitrate, Sulfate, Sulfide, Chloride, Bicarbonate, Bromide, Bromines, Phosphorous, TDS, Alkalinity

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
8/5/16	0700	1600780-GSP-10	X				7 Total 8260, 8270, PP Metals, 6010	300 ORGEMS, 300 ORGEMS 28D
	0828	1600780-MW-21	X				13 Total	
	0844	1600780-MW-19	X				13 Total	
	0830	1600780-MW-7	X				16 Total HOLD Field Filtered 8270, PP Metals, 6010 Extract 8270	
	0957	1600780-MW-3	X				13 Total	
	1102	1600780-RW-2	X				13 Total	
	1130	1600780-RW-1	X				10 Total NO 8260 SAMPLE	
	1237	1600780-MW-22	X				8 Total NO 8260 and 8270	
	1330	1600780-FB-4	X				3 Total 8260 only	
	1340	1600780-MW-24	X				13 Total	
	1340	1600780-MW-15	X				3 Total 8260 only	
	1447	1600780-MW-13	X				13 Total	

680-128400 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	8/5/16	1800	FED EX					
RECEIVED BY: (SIGNATURE) FED EX	8/5/16	1800	RECEIVED BY: (SIGNATURE)			RECEIVED BY: (SIGNATURE)		

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO	SAVANNAH LOG NO.	LABORATORY REMARKS
V. Jackson	8/6/16	9:44	YES ○ NO ○		680128400	3.2/3.3 3.0/3.1 2.6/2.7 3.5/3.6 2.9/3.0 3.0/3.1

TAL8240-680 (1008)

Serial Number 110131

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Lab Project #68016768

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: Zill LLC GEI	PROJECT NO: 1600780	PROJECT LOCATION (STATE): MO	PAGE 2 OF 2
TAL (LAB) PROJECT MANAGER: Kathy Smith	P.O. NUMBER	CONTRACT NO.	STANDARD REPORT DELIVERY ●
CLIENT (SITE) PM: Lisa Reyenga	CLIENT PHONE: 817-380-3901	CLIENT FAX	DATE DUE
CLIENT NAME: GEI Consultants	CLIENT E-MAIL: lreyenga@geiconsultants.com		EXPEDITED REPORT DELIVERY (SURCHARGE) ○
CLIENT ADDRESS: 4601 DTC Blvd #900 Denver, CO 80237			DATE DUE
COMPANY CONTRACTING THIS WORK (if applicable)			NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS: 8260, 8270, PP Metals, EPA 6010, Nitrate, Sulfate, Sulfide, Chloride, Bicarbonate, Bromide, Ammonia, Phosphorus, TDS, Alkalinity

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
8/5/16	1520	~~MW~~ 1600780-MW-20		X				8 Total	No 8260 and 8270
	1546	1600780-EB-1		X				5 Total	8260 and 8270 only
	1630	1600780-EB-2		X				5 Total	8260 and 8270 only
		TRIP BLANK		X				8260 (2 VOAs)	
	1333	1600780-MW-D		X				12 Total	only 1 of 2 8270 1-liter ambers

7 Coolers

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	8/5/16	1800	FED EX					
RECEIVED BY: (SIGNATURE) FEDEX	DATE 8/5/16	TIME 1800	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
J. Jackson	8/6/16	9:44	YES ○ NO ○		680128400	3.2/3.3 3.0/3.1 2.6/2.7 3.5/3.6 2.9/3.0 2.9/3.0 3.0/3.1

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 680-128400-1

Login Number: 128400
List Number: 1
Creator: Jackson, Victor L

List Source: TestAmerica Savannah

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

Attachment 2

Validation Report

Site: Zill LLC, Missouri
Laboratory: Test America, Savannah, Georgia
Report Nos.: 680-128237, 680-128278, 680-128342, 680-128400
Reviewer: Lorie MacKinnon/GEI Consultants
Date: September 25, 2016

The samples were analyzed for one or more of the following parameters:

- Low level Semivolatile organic compounds (SVOCs) using SW-846 Method 8270D
- Volatile organic compounds (VOCs) using SW-846 Method 8260B
- Total and dissolved Metals using SW-846 Methods 6010C/7470A
- Alkalinity using Standard Methods SM2320B
- Total dissolved solids using Standard Methods SM2540C
- Anions by ion chromatography using EPA Method 300.0
- Ammonia using EPA Method 350.1
- Total phosphorus using EPA Method 365.4
- Sulfide using EPA Method 376.1

Samples included in this review are listed below:

680-128237 (Collection date 08/02/2016)

1600780-FB-1	1600780-MW-A	Trip Blank (08/02)

680-128278 (Collection date 08/03/2016)

1600780-GSP-19	1600780-MW-17	1600780-Trip Blank (08/03)
1600780-RW-Z*	1600780-FB-2*	1600780-RW-1*

680-128342 (Collection date 08/04/2016)

Trip Blank (08/04)	1600780-MW-26	1600780-MW-12
1600780-MW-1	1600780-MW-18	1600780-DUP-1[1]
1600780-FB-3	1600780-MW-23	1600780-MW-25
1600780-MW-C	1600780-GSP-10	

680-128400 (Collection date 08/05/2016)

1600780-GSP-10	1600780-MW-21	1600780-MW-19
1600780-MW-7	1600780-MW-3	1600780-RW-2
1600780-RW-1	1600780-MW-22	1600780-FB-4
1600780-MW-24	1600780-MW-15	1600780-MW-13
1600780-MW-20	1600780-EB-1	1600780-EB-2
Trip Blank	1600780-MW-D	

[1] - Field duplicate of MW-18
* - Analysis cancelled due to high cooler temperature

QA/QC Items Evaluated

- Sample receipt condition
- Laboratory identified non-conformances
- Sample hold time
- Method and Field/Trip blanks
- Laboratory control sample (LCS)/LCS Duplicates
- Matrix spikes / matrix spike duplicates (MS/MSD)
- Laboratory duplicates
- Surrogate recovery
- Field duplicates
- Sample Quantitation Limits
- Total and dissolved result evaluation
- Samples Requiring Dilution

The results are usable as reported or usable with minor qualification due to sample matrix or laboratory quality control outliers with the following exceptions:

- The recoveries for caprolactam, 4-chloroaniline, 3,3'-dichlorobenzidine, 3-nitroaniline, and 4-nitrophenol were below 10 in the MS and/or MSD performed on 1600780-GSP-10. The nondetect results for caprolactam, 4-chloroaniline, 3,3'-dichlorobenzidine, 3-nitroaniline, and 4-nitrophenol in sample 1600780-GSP-10 were rejected and should not be used for decision-making purposes.

- The recoveries for bis(2-chloroethyl)ether, caprolactam, 4-chloroaniline, 4-chloro-3-methylphenol, 2-chlorophenol, 3,3'-dichlorobenzdine, hexachloroethane, 3-nitroaniline, and 4-nitroaniline were below 10 in the MS and/or MSD performed on 1600780-MW-18. The nondetect results for bis(2-chloroethyl)ether, caprolactam, 4-chloroaniline, 4-chloro-3-methylphenol, 2-chlorophenol, 3,3'-dichlorobenzdine, hexachloroethane, 3-nitroaniline, and 4-nitroaniline in sample 1600780-MW-18 were rejected and should not be used for decision-making purposes.

- The recovery for 3,3'-dichlorobenzidine was below 10 in the LCS associated with samples 1600780-GSP-10, 1600780-MW-21, 1600780-MW-19, 1600780-MW-7, 1600780-MW-3, 1600780-RW-2, 1600780-RW-1, 1600780-MW-24, 1600780-MW-13, 1600780-EB-1, 1600780-EB-2, and 1600780-MW-D. The nondetect results for 3,3'-dichlorobenzidine in these samples were rejected and should not be used for decision-making purposes.

- The recoveries for hexachlorocyclopentadiene were below 10 in the LCS and LCSD associated with samples 1600780-MW-26, 1600780-MW-12 (total and dissolved), 1600780-MW-1, 1600780-MW-18, 1600780-DUP-1, 1600780-MW-23, 1600780-MW-25, and 1600780-MW-C (total and dissolved). The nondetect results for hexachlorocyclopentadiene in these samples were rejected and should not be used for decision-making purposes.

Table 1 provides the definitions for the data validation qualifiers and comment codes used in the database. Validation qualifiers and definitions are based on those used by EPA in the current validation guidelines (EPA, 2014). These comment codes include an indication as to the reason for qualification of data, as well as the expected bias, if applicable. The hierarchy of data validation qualifiers and bias is listed below:

R > J	The R qualifier will always take precedence over the J qualifier.
J > J+ or J-	A non-biased (J) qualifier will always supersede biased (J+ or J-) qualifiers since it is not possible to assess the direction of the potential bias.
J = J+ plus J-	Adding biased (J+, J-) qualifiers with opposite directions will results in a non-biased qualifier (J).
UJ = U plus J	The UJ qualifier is used when a (J) qualifier is added to a non-detected (U) result.

Every individual result that has any qualifier (laboratory or validation) has a corresponding code(s) to provide clarity to the usability of the result.

The validation findings were based on the following information.

Sample Receipt Condition

All samples were received at the laboratory in good condition at the appropriate temperatures with the following except where noted below.

680-128278

The temperature upon receipt for one cooler in this sample shipment was recorded at 15.8 degrees Celsius. Validation action was not required as the analysis for samples in this cooler, 1600780-RW-Z, 1600780-FB-2, and 1600780-RW-1, was cancelled.

Laboratory Non-Conformance

Laboratory non-conformances were not noted.

Sample Hold Time

All samples were analyzed within the method required holding time, except where noted below.

Report	Sample	Analyte	Exceedance	Criteria	Validation Actions
680-128278	1600780-GSP-19	Alkalinity and Bicarbonate Alkalinity	2 days	14 days	Estimate (J_h) the results for alkalinity and bicarbonate alkalinity in these samples. The bias cannot be determined from this nonconformance.
	1600780-MW-17		1 day		

Method and Field/Trip Blanks

Analytes were detected below the reporting limits (RL) in the associated method, field, and trip blank samples. Analytes which were detected in the project samples at levels less than five times those in the blanks were qualified as nondetect (U). Samples were evaluated before application of sample dilution factors.

Report	Analyte	Blank ID/Associated Samples	Maximum Concentration	Validation Actions
680-128237	Chloroform	1600780-FB-1: 1600780-MW-A	0.76 ug/L	No actions required.
680-128342	Acetone	1600780-FB-3: 1600780-MW-26, MW-12, MW-1, DUP-1, MW-23, MW-25, MW-C, GSP-10, MW-18	7.4 ug/L	Qualify the result for acetone as nondetect (U_f) at the reported value in sample 1600780-MW-12.
680-128400	Chloroform	1600780-FB-4: 1600780-GSP-10, 1600780-MW-21, 1600780-MW-19, 1600780-MW-7, 1600780-MW-3, 1600780-RW-2, 1600780-MW-24, 1600780-MW-15, 1600780-MW-13, 1600780-MW-D	0.71 ug/L	No actions required.
680-128400	Acetophenone	1600780-EB-1/EB-2: 1600780-GSP-10, 1600780-MW-21, 1600780-MW-19, 1600780-MW-7, 1600780-MW-3, 1600780-RW-2, 1600780-RW-1, 1600780-MW-24, 1600780-MW-13, 1600780-MW-D	0.50 ug/L	Qualify the results for acetophenone as nondetect (U_f) at the RL in sample 1600780-GSP-10 and 1600780-MW-D.
	Benzaldehyde		0.88 ug/L	No actions required.
680-128400	Benzo(ghi)perylene	MB 680-444887: 1600780-GSP-10, 1600780-MW-21, 1600780-MW-19, 1600780-MW-7, 1600780-MW-3, 1600780-RW-2, 1600780-RW-1, 1600780-MW-24, 1600780-MW-13, 1600780-EB-1, 1600780-EB-2, 1600780-MW-D	0.135 ug/L	No actions required.
680-128400	Calcium	MB 680-444840: 1600780-GSP-10, 1600780-MW-21, 1600780-MW-19, 1600780-MW-7, 1600780-MW-3, 1600780-RW-2, 1600780-RW-1, 1600780-MW-22, 1600780-MW-24, 1600780-MW-13, 1600780-MW-20, 1600780-MW-D	72.8 ug/L	No actions required.
If the sample result is < RL or < 2x Blank Result for common contaminants; report the result as nondetect (U_b/U_f) at the RL.				

Lab Control Spikes

All lab control spike samples (LCS) and LCS Duplicates (LCSD) recovered within the laboratory specified control limits, except where noted below.

Report	LCS ID	Compound	QC Exceedance (%)	QC Limits (%)	Validation Actions
680-128237	680-444283	Bromomethane	RPD 24	20	Actions were not required as the affected results were nondetect and therefore not affected by the high precision results.
Associated Samples: 1600780-FB-1, 1600780-MW-A, Trip Blank (08/02)					
680-128278	680-445400	Dichlorodifluoromethane	LCSD 67	70-137	Actions were not required as the affected result was not reported from the diluted analysis.
Associated Samples: 1600780-MW-17 DL					
680-128342	680-444703	Hexachlorocyclopentadiene	6, 8	10-130	Reject (R_l) the nondetect results for hexachlorocyclopentadiene in the associated samples.
Associated Samples: 1600780-MW-26, 1600780-MW-12 (total and dissolved), 1600780-MW-1, 1600780-MW-18, 1600780-DUP-1, 1600780-MW-23, 1600780-MW-25, 1600780-MW-C (total and dissolved)					
680-128400	680-444887	Atrazine	LCS 13	30-130	Estimate (UJ_l) the nondetect results for atrazine in all associated samples; Low bias.
		3,3'-Dichlorobenzidine	LCS 0	10-142	Reject (R_l) the nondetect results for 3,3'-dichlorobenzdine in all associated samples.
Associated Samples: 1600780-GSP-10, 1600780-MW-21, 1600780-MW-19, 1600780-MW-7, 1600780-MW-3, 1600780-RW-2, 1600780-RW-1, 1600780-MW-24, 1600780-MW-13, 1600780-EB-1, 1600780-EB-2, 1600780-MW-D					
680-128400	680-445638	2-Butanone	LCS 128	79-125	Actions were not required as the affected results were nondetect and therefore not affected by the high recovery or precision results.
		Bromomethane	21 %RPD	20	
		Chloroethane	23 %RPD		
		Methylene chloride	22 %RPD		
Associated Samples: 1600780-GSP-10, 1600780-MW-21, 1600780-MW-19, 1600780-MW-7, 1600780-MW-3					

Matrix Spike / Matrix Spike Duplicates

All matrix spike/matrix spike duplicate samples recovered within the laboratory specified control limits, except where noted below. The tables below summarize the analytes which did not meet the MS percent recovery (%R), MS/MSD %R, or relative percent difference (RPD) criteria and the associated samples. It should be noted that validation actions were not required if a compound was recovered high and not detected in the sample or precision (RPD) results were high but the compound was not detected in the sample and MS/MSD recoveries were within control limits. If the native sample analyte level was greater than four times that of the spike added, the recovery could not be accurately evaluated and these recoveries were not used to qualify sample results.

Report 680-128237

MS/MSD analyses were performed on sample 1600780-MW-A for SVOCs. MS/MSD recoveries and RPDs could not be accurately evaluated as a 10-fold dilution was required for the sample, MS, and MSD due to high target compound levels.

Report 680-128278

MS/MSD analyses were performed on samples 1600780-GSP-19 and 1600780-MW-17 for ammonia.

1600780-GSP-19					
Analyte	**MS %R**	**MSD %R**	**RPD**	**QC Limits**	**Validation Actions**
Ammonia	114	113	-	90-110	Estimate (J_m) the positive result for ammonia in sample 1600780-GSP-19; High bias. Validation action was not required for ammonia in sample MW-17 as the matrix spike recovery was acceptable for that sample.
- criterion met					

Report 680-128342

1600780-MW-18					
Analyte	**MS %R**	**MSD %R**	**RPD**	**QC Limits**	**Validation Actions**
Iron	131	128	-	75-125	Estimate (J) the positive results for iron in the associated samples; High bias.
- criterion met					
Associated Samples: 1600780-MW-26, 1600780-MW-12 (total and dissolved), 1600780-MW-1, 1600780-MW-18, 1600780-DUP-1, 1600780-MW-23, 1600780-MW-25, 1600780-MW-C (total and dissolved)					

MW-18					
Analyte	**MS %R**	**MSD %R**	**RPD**	**QC Limits**	**Validation Actions**
VOCs					
Acetone	-	135	-	68-132	Validation action was not required as the affected results were nondetect and not affected by the potential high bias.
2-Butanone	127	128	-	79-125	
Toluene	121	-	-	80-120	Estimate (J_m) the positive result for toluene in sample MW-18; High bias.
m/p-Xylene	78	76	-	80-120	Estimate (J_m/UJ_m) the positive and nondetect results for the affected compounds in sample MW-18; Low bias.
n-Propylbenzene	79	-	-	80-125	
p-Isopropyltoluene	79	-	-	80-120	
sec-Butylbenzene	75	-	-	80-120	
tert-Butylbenzene	77	-	-	80-120	
1,2,4-Trimethylbenzene	75	-	-	80-120	
1,3,5-Trimethylbenzene	77	-	-	80-120	
SVOC					
Benzaldehyde	1313	1299	-	17-130	Validation action was not required as the affected results were nondetect and not affected by the potential high bias or precision results.
Dimethylphthalate	-	-	23	20	

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MW-18					
Analyte	**MS %R**	**MSD %R**	**RPD**	**QC Limits**	**Validation Actions**
3&4-Methylphenol	7	-6	-	44-130	Estimate (J_m) the positive results for 3&4-methylphenol and 2-methylphenol in sample MW-18; Low bias.
2-Methylphenol	-	33	-	42-30	
Bis(2-Chloroethyl)ether	0	0	-	29-130	Reject (R_m) the nondetect results for the affected compounds in sample MW-18.
Caprolactam	0	0	-	25-130	
4-Chloroaniline	0	0	-	10-130	
4-Chloro-3-methylphenol	0	0	-	49-122	
2-Chlorophenol	0	0	-	44-130	
3,3'-Dichlorobenzidine	0	0	-	10-142	
Hexachloroethane	0	0	-	23-120	
3-Nitroaniline	0	0	-	14-130	
4-Nitroaniline	0	17	-	38-130	
- criterion met					

Report 680-128400

1600780-MW-3					
Analyte	**MS %R**	**MSD %R**	**RPD**	**QC Limits**	**Validation Actions**
Ammonia	-	122	-	90-110	Estimate (J_m) the positive results for ammonia in samples 1600780-MW-19, 1600780-MW-7, 1600780-RW-2, 1600780-RW-1, 1600780-MW-13, 1600780-MW-20, and 1600780-MW-D; High bias.
- criterion met					

1600780-GSP-10					
Analyte	**MS %R**	**MSD %R**	**RPD**	**QC Limits**	**Validation Actions**
Acenaphthene	33	-	97	41-130/20	Estimate (J/UJ) the positive and nondetect results for the affected compounds in sample 1600780-GSP-10; Low bias.
Acenaphthylene	34	-	94	37-130/30	
Benzo(a)anthracene	51	51	25	52-130	
1,1'-Biphenyl	30	-	98	35-130/30	
4-Chloro-3-methylphenol	47	-		49-122	
2-Chloronaphthalene	30	-	99	31-130/30	
4-Chlorophenyl phenyl ether	32	-	84	39-130/20	
Dibenzofuran	34	-	97	38-130/20	
2,4-Dichlorophenol	46	-		49-130	
Diethyl phthalate	33	-	89	46-130/20	
Dimethyl phthalate	31	-	91	48-130/20	
2,4-Dinitrotoluene	37	-	86	51-130/20	
2,6-Dinitrotoluene	36	-	101	51-130/20	
Fluorene	28	-	97	43-130/20	
Hexachlorobutadiene	21	-	67	23-130/30	
Isophorone	44	-	31	46-130/30	
2-Nitroaniline	40	-	91	46-130/20	
4-Nitroaniline	19	-	95	38-130/50	
2-Nitrophenol	48	-	31	50-130/30	
2,4,5-Trichlorophenol	35	-	104	49-130/20	
2,4,6-Trichlorophenol	45	-	96	48-130/30	
Acetophenone	-	-	32	30	Validation action was not required as the affected results were nondetect and not affected by the high precision bias.
Anthracene	-	-	27	20	
Benzo(k)fluoranthene	-	-	31	30	
4-Bromophenyl phenyl ether	-	-	32	20	

1600780-GSP-10					
Analyte	**MS %R**	**MSD %R**	**RPD**	**QC Limits**	**Validation Actions**
Butyl benzyl phthalate	-	-	26	20	
2-Chlorophenol	-	-	32	30	
2,4-Dintrophenol	-	-	89	50	
Fluoranthene	-	-	23	20	
Hexachlorobenzene	-	-	29	20	
Hexachlorocyclopentadiene	-	-	109	50	
Hexachloroethane	-	-	53	30	
Nitrobenzene	-	-	31	30	
N-nitrosodi-n-propylamine	-	-	32	30	
2,2'-oxybis(1-chloropropane)	-	-	37	30	
Pentachlorophenol	-	-	21	20	
Phenanthrene	-	-	30	20	
Pyrene	-	-	28	20	
Phenol	9	-11	-	37-130	Estimate (J_m) the positive result for phenol in sample 1600780-GSP-10; Low bias.
Caprolactam	0	0	-	25-130	Reject (R_m) the nondetect results for the affected compounds in sample 1600780-GSP-10.
4-Chloroaniline	0	0	-	10-130	
3,3'-Dichlorobenzidine	0	0	-	10-142	
3-Nitroaniline	0	0	-	14-130	
4-Nitrophenol	0	-	-	38-130	
- criterion met					

Laboratory Duplicates

All laboratory duplicate relative percent differences were within the laboratory specified control limits.

Surrogate Recovery

All surrogate recoveries were within the laboratory specified control limits, except where noted below.

Report	Sample	Surrogate	Recovery (%)	Control Limits	Validation Actions
680-128400	1600780-GSP-10	2-Fluorobiphenyl	30	31-107	Estimate (J/UJ) the positive and nondetect base neutral results in sample 1600780-GSP-10; Low bias.
		Nitrobenzene-d5	33	37-103	
		2,4,6-Tribromophenol	33	39-133	Validation actions were not required as only one surrogate was recovered outside of control limits in the acid fraction.
	1600780-MW-D	2-Fluorobiphenyl	28	31-107	Estimate (J/UJ) the positive and nondetect base neutral results in sample 1600780-MW-D; Low bias.
		Nitrobenzene-d5	33	37-103	
		2,4,6-Tribromophenol	38	39-133	Validation actions were not required as only one surrogate was recovered outside of control limits in the acid fraction.

Field Duplicates

The field duplicate pair of 1600780-MW-18/1600780-DUP-1 was identified. Field duplicates were evaluated for precision by calculating the relative percent difference (RPD) between analytes detected in the Normal and Duplicate samples submitted for analysis. The relative percent difference is defined as the quantitative measure of the variability of a group of measurements compared to their average values.

The following table summarizes the RPDs of the detected analytes in the aqueous field duplicate pair 1600780-MW-18 and 1600780-DUP-1, which were within the acceptance criteria with the exception of acetophenone, 2-methylphenol, 3&4-methylphenol, 2,4-dimethylphenol, phenol, naphthalene, and sulfide. The positive and nondetect results for acetophenone, 2-methylphenol, 3&4-methylphenol, 2,4-dimethylphenol, phenol, naphthalene, and sulfide in samples 1600780-MW-18 and 1600780-DUP-1 were qualified as estimated (J/UJd). The direction of the bias cannot be determined from this nonconformance.

Analyte	1600780-MW-18 (µg/L)	1600780-DUP-1 (µg/L)	RPD (%)
Benzene	4600	4600	0
Ethylbenzene	1200	1200	0
Isopropylbenzene	110	100	9.5
m/p-Xylene	4200	3900	7.4
n-Propylbenzene	330	310	6.3
o-Xylene	1100	1000	9.5
Toluene	1600	1500	6.5
1,2,4-Trimethylbenzene	2200	2100	4.7
1,3,5-Trimethylbenzene	640	610	4.8
Xylenes, Total	5300	4900	7.8
Acetophenone	4.8 U	39	**NC, Not within RL**
Acenaphthene	0.16 J	0.19 U	NC, Within RL
1,1'-Biphenyl	0.77 J	0.59 J	26.5
2,6-Dinitrotoluene	0.74 J	0.95 U	NC, Within RL
Fluorene	0.26	0.17 J	41.9, Within RL
2-Methylphenol	12	1.9 U	**NC, Not within RL**
3&4-Methylphenol	16	1.9 U	**NC, Not within RL**
Phenanthrene	0.36	0.30	18.2
2,4-Dimethylphenol	37	14	**90.2**
2-Methylnaphthalene	91	74	20.6
Phenol	79	44	**56.9**
Naphthalene	180	120	**40**
Sulfate	410	430	4.8
Chloride	110	120	8.7
Bromide	0.55	0.58	5.3
Arsenic	8.8 J	9.2 J	4.4
Calcium	310,000	310,000	0
Iron	12,000	14,000	15.4

Analyte	1600780-MW-18 (µg/L)	1600780-DUP-1 (µg/L)	RPD (%)
Magnesium	62,000	63,000	1.6
Manganese	3500	3500	0
Nickel	7.4 J	6.4 J	14.5
Potassium	2300	2300	0
Sodium	59000	58,000	1.7
Alkalinity	590	580	1.7
Bicarbonate Alkalinity	590	570	3.4
Phosphorus	0.049 J	0.097 J	65.8, Within RL
Total dissolved solids	1400	1400	0
Sulfide	3.3	2.2	**40, Not within RL**
NC – Not calculable Criteria: When both aqueous results are ≥5x the RL, RPDs must be <30% When results are < 5x the QL, the absolute difference between the original and field duplicate < RL			

Sample Quantitation Limits

Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL). These results were qualified as estimated (J) by the laboratory due to uncertainty at the low end of calibration assigned the qualifier code g (J_g). The direction of the bias is indeterminate.

Total and Dissolved Result Evaluation

Total and dissolved analytes were analyzed for select samples. Professional judgment was used to qualify results in which the dissolved result exceeded that of the total by more than 20 percent for sample levels greater than five times the MDL. All total/dissolved percent differences (%D) were within this limit, except where noted below.

680-128342

Sample	Analyte	Total Result (ug/L)	Dissolved Result (ug/L	%D (%)	Validation Actions
1600780-MW-C	Potassium	1,000	1,500	50	Estimate (J_a) the positive total and dissolved results for potassium, 2,4-dimethylphenol, 3&4-methylphenol, and phenol in sample 1600780-MW-C. Total results are biased low and dissolved results biased high.
	2,4-Dimethylphenol	170	230	35	
	3&4-Methylphenol	230	310	35	
	Phenol	75	91	21	

Samples Requiring Dilution

The following table lists the sample dilutions which were performed. Dilutions were performed to bring all anion and sodium results within the instrument calibration range.

Method	Lab Report Number	Sample	Dilution Factor	Analytes Reported from Referenced Dilution
8270D	680-128237	1600780-MW-A	10-fold 50-fold	Report results for 2-methylphenol and 3&4-methyphenol from the 50-fold dilution. Report all other results from the 10-fold analysis. RLs were elevated in this sample.
8270D	680-128278	1600780-MW-17	10-fold	Report results for 2,4-dimethylphenol, naphthalene, and phenol from the 10-fold dilution. Report all other results from the undiluted analysis.
8260B			50-fold	A 50-fold dilution was performed due to high target compound levels and sample matrix. RLs were elevated in this sample.
8260B	680-128400	1600780-GSP-10	25-fold	A 25-fold dilution was performed due to high target compound levels and sample matrix. RLs were elevated in this sample.
8260B		1600780-MW-21	200-fold	A 200-fold dilution was performed due to high target compound levels and sample matrix. RLs were elevated in this sample.
8270D			10-fold 100-fold	Report results for 2-methylphenol and 3&4-methyphenol from the 100-fold dilution. Report all other results from the 10-fold analysis. RLs were elevated in this sample.
8260B		1600780-MW-19	10-fold	A 10-fold dilution was performed due to high target compound levels and sample matrix. RLs were elevated in this sample.
8270D			10-fold	Report result for phenol from the 10-fold dilution. Report all other results from the undiluted analysis.
8260B		1600780-MW-7	200-fold	A 200-fold dilution was performed due to high target compound levels and sample matrix. RLs were elevated in this sample.
8270D			10-fold 100-fold	Report results for 3&4-methyphenol and naphthalene from the 100-fold dilution. Report all other results from the 10-fold analysis. RLs were elevated in this sample.
8260B		1600780-MW-3	10-fold	A 10-fold dilution was performed due to high target compound levels and sample matrix. RLs were elevated in this sample.
8270D			10-fold	A 10-fold dilution was performed due to sample matrix. RLs were elevated in this sample.
8260B		1600780-RW-2	50-fold	A 50-fold dilution was performed due to high target compound levels and sample matrix. RLs were elevated in this sample.
8270D			10-fold	A 10-fold dilution was performed due to high target compound levels and sample matrix. RLs were elevated in this sample.
8270D		1600780-RW-1	10-fold	A 10-fold dilution was performed due to high target compound levels and sample matrix. RLs were elevated in this sample.
8260B		1600780-MW-3	100-fold	A 100-fold dilution was performed due to high target compound levels and sample matrix. RLs were elevated in this sample.
8270D			10-fold 100-fold	Report results for 3&4-methyphenol and naphthalene from the 100-fold dilution. Report all other results from the 10-fold analysis. RLs were elevated in this sample.
8260B		1600780-MW-15	25-fold	A 25-fold dilution was performed due to high target compound levels and sample matrix. RLs were elevated in this sample.
8260B		1600780-MW-13	100-fold	A 100-fold dilution was performed due to high target compound levels and sample matrix. RLs were elevated in this sample.
8270D			10-fold 100-fold	Report result for naphthalene from the 100-fold dilution. Report all other results from the 10-fold analysis. RLs were elevated in this sample.
8260B		1600780-MW-D	5-fold	A 5-fold dilution was performed due to high target compound levels and sample matrix. RLs were elevated in this sample.
8260B	680-128342	1600780-MW-12 (Total)	10-fold 20-fold 100-fold	Report result for ethylbenzene from the 20-fold dilution. Report results for benzene, m/p-xylene, toluene, and total xylenes from the 100-fold dilution. Report all other results from the 10-fold analysis. RLs were elevated in this sample.
8270D			10-fold 100-fold	Report results for 2,4-dimethylphenol, 2-methylphenol, 3&4-methylphenol and phenol from the 100-fold dilution. Report all

Method	Lab Report Number	Sample	Dilution Factor	Analytes Reported from Referenced Dilution
				other results from the 10-fold analysis. RLs were elevated in this sample.
8270D		1600780-MW-12 (Dissolved)	10-fold 100-fold	Report results for 2-methylphenol, 3&4-methylphenol and phenol from the 100-fold dilution. Report all other results from the 10-fold analysis. RLs were elevated in this sample.
8260B	680-128342	1600780-MW-1	10-fold	A 10-fold dilution was performed due to high target compound levels and sample matrix. RLs were elevated in this sample.
8270D			5-fold	Report result for naphthalene from the 5-fold dilution. Report all other results from the undiluted analysis.
8260B		1600780-MW-18	50-fold	A 50-fold dilution was performed due to high target compound levels and sample matrix. RLs were elevated in this sample.
8270D			5-fold 50-fold	Report result for naphthalene from the 50-fold dilution. Report results for acetophenone, 2,4-dimethylphenol, 2-methylnaphthalene, and phenol from the 5-fold dilution. Report all other results from the undiluted analysis.
8260B		1600780-DUP-1	50-fold	A 50-fold dilution was performed due to high target compound levels and sample matrix. RLs were elevated in this sample.
8270D			10-fold	Report results for acetophenone, 2-methylnaphthalene, naphthalene, and phenol from the 10-fold dilution. Report all other results from the undiluted analysis.
8260B		1600780-MW-23	100-fold 200-fold	Report result for toluene from the 200-fold dilution. Report all other results from the 100-fold analysis. RLs were elevated in this sample.
8270D			10-fold 100-fold	Report results for 3&4-methylphenol and naphthalene from the 100-fold dilution. Report all other results from the 10-fold analysis. RLs were elevated in this sample.
8270D		1600780-MW-25	5-fold	A 5-fold dilution was performed due to sample matrix. RLs were elevated in this sample.
8260B		1600780-MW-C (total)	50-fold 100-fold	Report result for benzene from the 100-fold dilution. Report all other results from the 50-fold analysis. RLs were elevated in this sample.
8270D			10-fold 100-fold	Report results for 3&4-methylphenol and naphthalene from the 100-fold dilution. Report all other results from the 10-fold analysis. RLs were elevated in this sample.
8270D		1600780-MW-C (Dissolved)	10-fold 100-fold	Report results for 2,4-dimethylphenol and 3&4-methylphenol from the 100-fold dilution. Report all other results from the 10-fold analysis. RLs were elevated in this sample.

DATA VALIDATION QUALIFIERS

U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.

J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.

JN - The analysis indicates the presence of a compound that has been "tentatively identified" (N) and the associated numerical value represents its approximate (J) concentration.

R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

DATA QUALIFIER CODES

a - Data are qualified as estimated as the dissolved result exceeded that of the total by more than 20 percent.

b - The analyte was detected but due to blank contamination was qualified as nondetect.

c - Data are qualified due to a calibration non-conformance.

d - Data are qualified as estimated due to field or laboratory duplicate or MS/MSD relative percent difference outlier.

f - The analyte was detected but due to field blank contamination was qualified as nondetect.

g - Data are qualified as estimated as the result was above the MDL but below the RL.

h - Data are qualified as estimated due to a sample receipt nonconformance or exceedance in holding time.

i - Data are qualified as estimated due to internal standard recovery outlier.

j - Data are qualified as estimated as if greater than 10 percent of the total homolog number was comprised of estimated analyte results.

l - Data are qualified as estimated or rejected due to a laboratory control sample recovery outlier.

m - Data are qualified as estimated or rejected due to a matrix spike recovery outlier.

s - Data are qualified as estimated or rejected due to a surrogate recovery outlier.