



TETRA TECH INC.

May 28, 2020

Mort P. Ames, Senior Counsel
City of Chicago Department of Law
30 N. LaSalle St. Suite 1400
Chicago, IL, 60602

**Subject: Summary of Water Sampling Performed on May 7, 2020
Former Crawford Power Plant
3501 South Pulaski, Chicago, IL**

Tetra Tech, Inc. (Tetra Tech) is providing air monitoring and demolition oversight of the former Crawford Power Plant on behalf of the City of Chicago. Tetra Tech provides daily reports on site activities to the City of Chicago which allows them to determine if further actions need to be taken.

On May 6, 2020, Tetra Tech was directed by a Chicago Department of Public Health (CDPH) representative to collect water samples to evaluate water discharge from the former Crawford Power Plant site during demolition activities. Water accumulates on the site from a combination of groundwater close to the surface, storm water, and water pumped from the basement of the buildings. The water accumulates on the site in areas that appear to be site depressions; these sites are referred to as pits.

Dewatering operations were being conducted from Pit 1, which is located on the southeastern portion of the site. Dewatering operations are necessary to provide a safe environment to demolish structures on the site and properly manage water that accumulates throughout the site. The water was pumped from Pit 1 into the sediment filter bags located near the Chicago Ship and Sanitary Canal (Canal). The water flowed from the sediment filter bags to the ground surface, and then flowed via overland flow to the Canal. The water discharge location was near the southeast corner of the site (**Figure 1 in Enclosure 1**). Hilco's contractor has a permit from the Illinois Environmental Protection Agency that allows the water to be discharged into the canal.

On May 6, Tetra Tech observed that the filter bags and dewatering system were not installed properly. The filter bags had large holes and tears and were not installed on a stabilized surface. Straw wattles, a sediment control device to help prevent soil erosion and increase infiltration into the ground, were installed around the dewatering area, but were not staked securely. The water being discharged flowed from the filter bags, through loose soil and sediment and created an erosion gully in the soil leading to the Canal. White cloudy water was observed in the Canal near the points of discharge.

Based on Tetra Tech and CDPH observations, CDPH requested Tetra Tech to collect water samples from Pits 1, 2, and 3 (**Figure 1 in Enclosure 1**) for laboratory analysis. Tetra Tech collected water samples from the three Pits and submitted the samples for laboratory analysis to

Eurofins TestAmerica. While collecting the sample from Pit 2, Tetra Tech noted a sheen and a strong petroleum odor on the standing water. It is unclear where the sheen and odor are coming from and will require further investigation. Site conditions were photographed and documented in the logbook. **A photographic log is provided as Enclosure 2.**

Analytical results were received on May 11, 2020. Sample results were compared to Illinois Administrative Code Section 304.124 (IAC 304.124) Effluent Standards. Effluent standards are regulatory concentrations that water must meet before being discharged to a water body.


The water sampling results indicated that concentrations of iron exceeded the effluent standard in the water samples from Pit 1 and Pit 2. The concentrations of Total Suspended Solids (TSS) exceeded the effluent standards in all three water samples. TSS are solids that can affect water quality. Sample results are presented in the attached **Table 1 in Enclosure 3**. A copy of the **laboratory analytical report is provided in Enclosure 4**.

During the week of May 11, 2020, Hilco modified the dewatering and water discharge areas. Hilco contractors dug a trench and laid gravel and straw wattles along the bank to the Chicago River. A gravel pad was constructed for the filter bags. Photographs of the modified dewatering area taken May 13, 2020, are included in **the photographic log in Enclosure 2**.

Tetra Tech will continue to monitor water management onsite and will report observations in daily and weekly reports.

We appreciate this opportunity to assist you on this project.

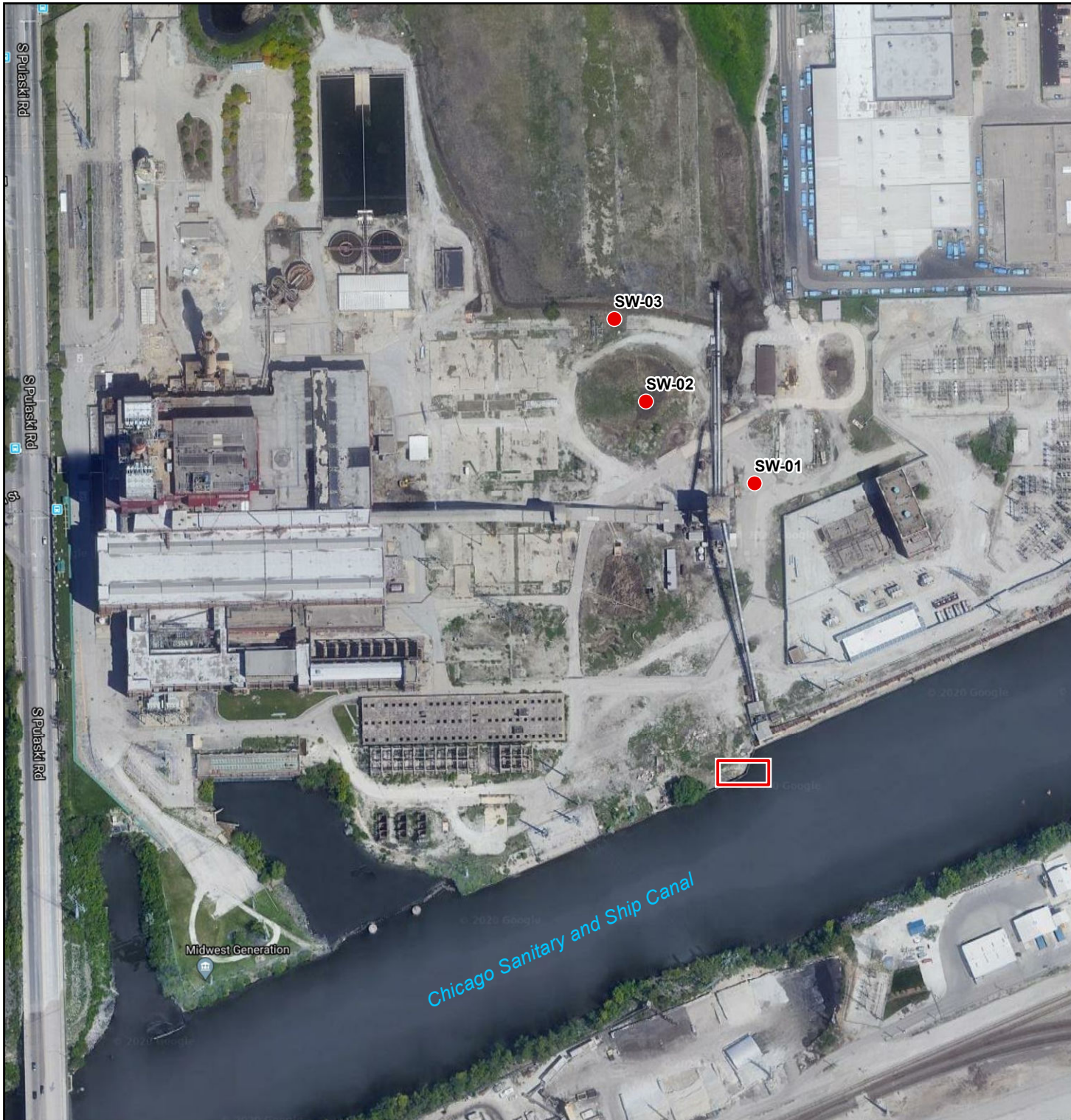
Sincerely,



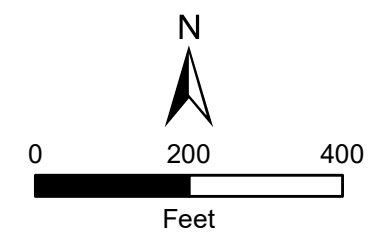
Stacey Durley
Project Manager

Enclosures (4)

Cc: David Graham, CDPH



- Legend**
- Sample Location
 - Discharge Area





CRAWFORD POWER PLANT
3501 S PULASKI ROAD
CHICAGO, ILLINOIS

FIGURE 1
SAMPLING LOCATIONS





Site Name: Hilco/Crawford
Location: Chicago, Illinois

<p>Photograph No. 1</p> <p>Date: May 11, 2020</p> <p>Description: Water discharge area. No water was being pumped. Note undermining of straw wattle. Note high volume of sediment on ground in water discharge area on upstream and downstream side of straw wattle.</p>	
<p>Photograph No. 2</p> <p>Date: May 11, 2020</p> <p>Description: Erosion gully at discharge point. Photo is facing north from final discharge point looking upgradient towards filter bag/straw wattle area.</p>	



Site Name: Hilco/Crawford
Location: Chicago, Illinois

Photograph No. 3

Date: May 13, 2020

Description:

Erosion gully at discharge point lined with gravel and straw wattle. Photo is facing south towards the Chicago Sanitary and Ship Canal.



Photograph No. 4

Date: May 13, 2020

Description:

Gravel pad for placement of sediment filter bags for water discharge. Photo is facing southeast towards the Chicago Sanitary and Ship Canal.



TABLE 1
SUMMARY OF WATER SAMPLE ANALYTICAL RESULTS
FORMER CRAWFORD POWER PLANT

Method	Analyte	IAC Effluent Standards	Sample ID			
			CPP-SW01-200507	CPP-SW02-200507	CPP-SW03-200507	CPP-SW01-200507-D
6020A	Aluminum	NE	1.5	1.8	1.3	1.4
6020A	Antimony	NE	0.0014	0.0013	0.0023	0.0014
6020A	Arsenic	0.25	0.0021	0.0029	0.0021	0.0023
6020A	Barium	2	0.049	0.066	0.066	0.050
6020A	Beryllium	NE	<0.0010	<0.0010	<0.0010	<0.0010
6020A	Cadmium	0.15	<0.00050	<0.00050	<0.00050	<0.00050
6020A	Calcium	NE	310	310	180	300
6020A	Chromium	0.1	0.0026	0.0028	0.0035	0.0023
6020A	Cobalt	NE	0.0019	0.0031	0.0011	0.0018
6020A	Copper	0.5	0.0051	0.0065	0.0039	0.0046
6020A	Iron	2	2.1	2.8	1.6	2.1
6020A	Lead	0.2	0.0027	0.0043	0.0031	0.0026
6020A	Magnesium	NE	68	72	30	69
6020A	Manganese	1	0.10	0.42	0.041	0.10
6020A	Nickel	1	0.0065	0.012	0.0053	0.0066
6020A	Potassium	NE	11	7.1	14	11
6020A	Selenium	NE	0.0018	0.0020	0.0033	0.0018
6020A	Silver	0.1	<0.00050	<0.00050	<0.00050	<0.00050
6020A	Sodium	NE	97	90	170	98
6020A	Thallium	NE	<0.0020	<0.0020	<0.0020	<0.0020
6020A	Vanadium	NE	0.0040	0.0066	0.0067	0.0055
6020A	Zinc	1	0.012	0.020	0.011	0.013
7470A	Mercury	NE	<0.00020	<0.00020	<0.00020	<0.00020
8082A	PCB-1016	NE	<0.00039	<0.00048	<0.00032	<0.00044
8082A	PCB-1221	NE	<0.00039	<0.00048	<0.00032	<0.00044
8082A	PCB-1232	NE	<0.00039	<0.00048	<0.00032	<0.00044
8082A	PCB-1242	NE	<0.00039	<0.00048	<0.00032	<0.00044

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FORMER CRAWFORD POWER PLANT

Method	Analyte	IAC Effluent Standards	CPP-SW01-200507	CPP-SW02-200507	CPP-SW03-200507	CPP-SW01-200507-D
8082A	PCB-1248	NE	<0.00039	<0.00048	<0.00032	<0.00044
8082A	PCB-1254	NE	<0.00039	<0.00048	<0.00032	<0.00044
8082A	PCB-1260	NE	<0.00039	<0.00048	<0.00032	<0.00044
8260B	1,1,1-Trichloroethane	NE	<0.0010	<0.0010	<0.0010	<0.0010
8260B	1,1,2,2-Tetrachloroethane	NE	<0.0010	<0.0010	<0.0010	<0.0010
8260B	1,1,2-Trichloroethane	NE	<0.0010	<0.0010	<0.0010	<0.0010
8260B	1,1-Dichloroethane	NE	<0.0010	<0.0010	<0.0010	<0.0010
8260B	1,1-Dichloroethene	NE	<0.0010	<0.0010	<0.0010	<0.0010
8260B	1,2-Dichloroethane	NE	<0.0010	<0.0010	<0.0010	<0.0010
8260B	1,2-Dichloropropane	NE	<0.0010	<0.0010	<0.0010	<0.0010
8260B	1,3-Dichloropropene, Total	NE	<0.0010	<0.0010	<0.0010	<0.0010
8260B	2-Hexanone	NE	<0.0050	<0.0050	<0.0050	<0.0050
8260B	Acetone	NE	0.0056	0.047	0.0080	0.0048
8260B	Benzene	NE	<0.00050	<0.00050	<0.00050	<0.00050
8260B	Bromodichloromethane	NE	<0.0010	<0.0010	<0.0010	<0.0010
8260B	Bromoform	NE	<0.0010	<0.0010	<0.0010	<0.0010
8260B	Bromomethane	NE	<0.0030	<0.0030	<0.0030	<0.0030
8260B	Carbon disulfide	NE	<0.0020	<0.0020	<0.0020	<0.0020
8260B	Carbon tetrachloride	NE	<0.0010	<0.0010	<0.0010	<0.0010
8260B	Chlorobenzene	NE	<0.0010	<0.0010	<0.0010	<0.0010
8260B	Chloroethane	NE	<0.0010	<0.0010	<0.0010	<0.0010
8260B	Chloroform	NE	<0.0020	<0.0020	<0.0020	<0.0020
8260B	Chloromethane	NE	<0.0010	<0.0010	<0.0010	<0.0010
8260B	cis-1,2-Dichloroethene	NE	<0.0010	<0.0010	<0.0010	<0.0010
8260B	cis-1,3-Dichloropropene	NE	<0.0010	<0.0010	<0.0010	<0.0010
8260B	Dibromochloromethane	NE	<0.0010	<0.0010	<0.0010	<0.0010
8260B	Ethylbenzene	NE	<0.00050	<0.00050	<0.00050	<0.00050
8260B	Methyl Ethyl Ketone	NE	<0.0050	0.018	<0.0050	<0.0050
8260B	methyl isobutyl ketone	NE	<0.0050	<0.0050	<0.0050	<0.0050

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Method	Analyte	IAC Effluent Standards	CPP-SW01-200507	CPP-SW02-200507	CPP-SW03-200507	CPP-SW01-200507-D
8260B	Methyl tert-butyl ether	NE	<0.0010	<0.0010	<0.0010	<0.0010
8260B	Methylene Chloride	NE	<0.0050	<0.0050	<0.0050	<0.0050
8260B	Styrene	NE	<0.0010	<0.0010	<0.0010	<0.0010
8260B	Tetrachloroethene	NE	<0.0010	<0.0010	<0.0010	<0.0010
8260B	Toluene	NE	<0.00050	<0.00050	<0.00050	<0.00050
8260B	trans-1,2-Dichloroethene	NE	<0.0010	<0.0010	<0.0010	<0.0010
8260B	trans-1,3-Dichloropropene	NE	<0.0010	<0.0010	<0.0010	<0.0010
8260B	Trichloroethene	NE	<0.00050	<0.00050	<0.00050	<0.00050
8260B	Vinyl chloride	NE	<0.0010	<0.0010	<0.0010	<0.0010
8260B	Xylenes, Total	NE	<0.0010	<0.0010	<0.0010	<0.0010
8270D	1,2,4-Trichlorobenzene	NE	<0.0016	<0.0087	<0.0016	<0.0017
8270D	1,2-Dichlorobenzene	NE	<0.0016	<0.0087	<0.0016	<0.0017
8270D	1,3-Dichlorobenzene	NE	<0.0016	<0.0087	<0.0016	<0.0017
8270D	1,4-Dichlorobenzene	NE	<0.0016	<0.0087	<0.0016	<0.0017
8270D	2,2'-oxybis[1-chloropropane]	NE	<0.0016	<0.0087	<0.0016	<0.0017
8270D	2,4,5-Trichlorophenol	NE	<0.0082	<0.044	<0.0080	<0.0084
8270D	2,4,6-Trichlorophenol	NE	<0.0041	<0.022	<0.0040	<0.0042
8270D	2,4-Dichlorophenol	NE	<0.0082	<0.044	<0.0080	<0.0084
8270D	2,4-Dimethylphenol	NE	<0.0082	<0.044	<0.0080	<0.0084
8270D	2,4-Dinitrophenol	NE	<0.016	<0.087	<0.016	<0.017
8270D	2,4-Dinitrotoluene	NE	<0.00082	<0.0044	<0.00080	<0.00084
8270D	2,6-Dinitrotoluene	NE	<0.00082	<0.0044	<0.00080	<0.00084
8270D	2-Chloronaphthalene	NE	<0.0016	<0.0087	<0.0016	<0.0017
8270D	2-Chlorophenol	NE	<0.0041	<0.022	<0.0040	<0.0042
8270D	2-Methylnaphthalene	NE	<0.0016	0.040	<0.0016	<0.0017
8270D	2-Methylphenol	NE	<0.0016	<0.0087	<0.0016	<0.0017
8270D	2-Nitroaniline	NE	<0.0041	<0.022	<0.0040	<0.0042
8270D	2-Nitrophenol	NE	<0.0082	<0.044	<0.0080	<0.0084
8270D	3 & 4 Methylphenol	NE	<0.0016	<0.0087	<0.0016	<0.0017

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FORMER CRAWFORD POWER PLANT

Method	Analyte	IAC Effluent Standards	CPP-SW01-200507	CPP-SW02-200507	CPP-SW03-200507	CPP-SW01-200507-D
8270D	3,3'-Dichlorobenzidine	NE	<0.0041	<0.022	<0.0040	<0.0042
8270D	3-Nitroaniline	NE	<0.0082	<0.044	<0.0080	<0.0084
8270D	4,6-Dinitro-2-methylphenol	NE	<0.016	<0.087	<0.016	<0.017
8270D	4-Bromophenyl phenyl ether	NE	<0.0041	<0.022	<0.0040	<0.0042
8270D	4-Chloro-3-methylphenol	NE	<0.0082	<0.044	<0.0080	<0.0084
8270D	4-Chloroaniline	NE	<0.0082	<0.044	<0.0080	<0.0084
8270D	4-Chlorophenyl phenyl ether	NE	<0.0041	<0.022	<0.0040	<0.0042
8270D	4-Nitroaniline	NE	<0.0082	<0.044	<0.0080	<0.0084
8270D	4-Nitrophenol	NE	<0.016	<0.087	<0.016	<0.017
8270D	Acenaphthene	NE	<0.00082	0.012	<0.00080	<0.00084
8270D	Acenaphthylene	NE	<0.00082	<0.0044	<0.00080	<0.00084
8270D	Anthracene	NE	<0.00082	<0.0044	<0.00080	<0.00084
8270D	Benzo[a]anthracene	NE	<0.00013	<0.00071	<0.00013	<0.00014
8270D	Benzo[a]pyrene	NE	<0.00016	<0.00087	<0.00016	<0.00017
8270D	Benzo[b]fluoranthene	NE	<0.00016	<0.00087	<0.00016	<0.00017
8270D	Benzo[g,h,i]perylene	NE	<0.00082	<0.0044	<0.00080	<0.00084
8270D	Benzo[k]fluoranthene	NE	<0.00016	<0.00087	<0.00016	<0.00017
8270D	Bis(2-chloroethoxy)methane	NE	<0.0016	<0.0087	<0.0016	<0.0017
8270D	Bis(2-chloroethyl)ether	NE	<0.0016	<0.0087	<0.0016	<0.0017
8270D	Bis(2-ethylhexyl) phthalate	NE	<0.0082	<0.044	<0.0080	<0.0084
8270D	Butyl benzyl phthalate	NE	<0.0016	<0.0087	<0.0016	<0.0017
8270D	Carbazole	NE	<0.0041	<0.022	<0.0040	<0.0042
8270D	Chrysene	NE	<0.00016	<0.00087	<0.00016	<0.00017
8270D	Dibenz(a,h)anthracene	NE	<0.00024	<0.0013	<0.00024	<0.00025
8270D	Dibenzofuran	NE	<0.0016	0.0088	<0.0016	<0.0017

TABLE 1
SUMMARY OF WATER SAMPLE ANALYTICAL RESULTS
FORMER CRAWFORD POWER PLANT

Method	Analyte	IAC Effluent Standards	CPP-SW01-200507	CPP-SW02-200507	CPP-SW03-200507	CPP-SW01-200507-D
8270D	Diethyl phthalate	NE	<0.0041	<0.022	<0.0040	<0.0042
8270D	Dimethyl phthalate	NE	<0.0041	<0.022	<0.0040	<0.0042
8270D	Di-n-butyl phthalate	NE	<0.0041	<0.022	<0.0040	<0.0042
8270D	Di-n-octyl phthalate	NE	<0.0082	<0.044	<0.0080	<0.0084
8270D	Fluoranthene	NE	<0.00082	<0.0044	<0.00080	<0.00084
8270D	Fluorene	NE	<0.00082	0.014	<0.00080	<0.00084
8270D	Hexachlorobenzene	NE	<0.00041	<0.0022	<0.00040	<0.00042
8270D	Hexachlorobutadiene	NE	<0.0041	<0.022	<0.0040	<0.0042
8270D	Hexachlorocyclopentadiene	NE	<0.016	<0.087	<0.016	<0.017
8270D	Hexachloroethane	NE	<0.0041	<0.022	<0.0040	<0.0042
8270D	Indeno[1,2,3-cd]pyrene	NE	<0.00016	<0.00087	<0.00016	<0.00017
8270D	Isophorone	NE	<0.0016	<0.0087	<0.0016	<0.0017
8270D	Naphthalene	NE	<0.00082	<0.0044	<0.00080	<0.00084
8270D	Nitrobenzene	NE	<0.00082	<0.0044	<0.00080	<0.00084
8270D	N-Nitrosodi-n-propylamine	NE	<0.00041	<0.0022	<0.00040	<0.00042
8270D	N-Nitrosodiphenylamine	NE	<0.0016	<0.0087	<0.0016	<0.0017
8270D	Pentachlorophenol	NE	<0.016	<0.087	<0.016	<0.017
8270D	Phenanthrene	NE	<0.00082	0.075	<0.00080	<0.00084
8270D	Phenol	NE	<0.0041	<0.022	<0.0040	<0.0042
8270D	Pyrene	NE	<0.00082	0.0045	<0.00080	<0.00084
SM 2540C	Total Dissolved Solids	NE	1700	1800	1300	1700
SM 2540D	Total Suspended Solids	15	45	58	32	79

Notes:

All results and standards are in milligrams per liter (mg/L)

Illinois Administrative Code (IAC) Standards taken from IAC Section 304.124

NE: IAC Standard Not Established

All results are preliminary data and have not been through Stage 3 Data Validation

 Result exceeds the IAC standard for effluent

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-181748-1

Client Project/Site: Crawford Station Demolition Oversight
Revision: 1

For:

Tetra Tech EM Inc.
1 South Wacker Drive 37 Floor
Ste. 3700
Chicago, Illinois 60606

Attn: Stacey Durley



Authorized for release by:
5/11/2020 4:45:51 PM

Jim Knapp, Project Manager II
(630)758-0262
jim.knapp@testamericainc.com

LINKS

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results through
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www.eurofinsus.com/Env

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.



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	5
Method Summary	9
Sample Summary	10
Client Sample Results	11
Definitions	27
QC Association	28
Surrogate Summary	31
QC Sample Results	32
Chronicle	42
Certification Summary	44
Chain of Custody	45
Receipt Checklists	46

Case Narrative

Client: Tetra Tech EM Inc.
Project/Site: Crawford Station Demolition Oversight

Job ID: 500-181748-1

Job ID: 500-181748-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-181748-1

Comments

No additional comments.

Receipt

The samples were received on 5/8/2020 9:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.1° C.

GC/MS VOA

Methods 8260B, 8260D: Acetone was detected in the following samples: CPP-SW01-200507 (500-181748-1), CPP-SW02-200507 (500-181748-2), CPP-SW03-200507 (500-181748-3) and CPP-SW01-200507-D (500-181748-4). The method blank associated with this sample was non-detect for Acetone. Acetone is known lab contaminant; therefore all low level detects for this compound could possibly be lab contamination.

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

GC/MS Semi VOA

Method 8270D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 500-541754 and analytical batch 500-541906 recovered outside control limits for the following analytes: 2,4-Dinitrophenol, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2-Chlorophenol, 4,6-Dinitro-2-methylphenol, 4-Nitrophenol, 4-Nitroaniline, Phenol, 2-Nitrophenol and Pentachlorophenol.

Method 8270D: The laboratory control sample duplicate (LCSD) for preparation batch 500-541754 and analytical batch 500-541906 recovered outside control limits for the following analytes: 2,4,6-Tribromophenol (Surr), 2-Fluorophenol (Surr), 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrophenol, 2,4-Dichlorophenol, 2-Nitrophenol, 2-Chlorophenol, Pentachlorophenol, 4,6-Dinitro-2-methylphenol and 4-Nitroaniline. All analytes were within the QC limits in the LCS; therefore, the data have been reported.

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-541892 was outside the method criteria for the following analyte(s): 2-Fluorophenol (Surr). As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-541892 was outside the method criteria for the following analyte(s): 4-Nitrophenol, 2,2'-oxybis[1-chloropropane], Hexachlorocyclopentadiene and Pentachlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The following sample was diluted due to the nature of the sample matrix: CPP-SW02-200507 (500-181748-2). Elevated reporting limits (RLs) are provided.

Method 8270D: The following sample contained one base surrogate outside acceptance limits: CPP-SW02-200507 (500-181748-2). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-541906 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-541906 was outside the method criteria for the following analyte(s): 2,2'-oxybis[1-chloropropane], Hexachlorobenzene and 2-Fluorophenol (Surr). As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

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

Case Narrative

Client: Tetra Tech EM Inc.
Project/Site: Crawford Station Demolition Oversight

Job ID: 500-181748-1

Job ID: 500-181748-1 (Continued)

Laboratory: Eurofins TestAmerica, Chicago (Continued)

GC Semi VOA

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

Metals

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

General Chemistry

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

Organic Prep

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

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Detection Summary

Client: Tetra Tech EM Inc.
Project/Site: Crawford Station Demolition Oversight

Job ID: 500-181748-1

Client Sample ID: CPP-SW01-200507

Lab Sample ID: 500-181748-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0056	J	0.010	0.0017	mg/L	1		8260B	Total/NA
Aluminum	1.5		0.10	0.025	mg/L	1		6020A	Total Recoverable
Antimony	0.0014	J	0.0030	0.0013	mg/L	1		6020A	Total Recoverable
Arsenic	0.0021		0.0010	0.00023	mg/L	1		6020A	Total Recoverable
Barium	0.049		0.0025	0.00073	mg/L	1		6020A	Total Recoverable
Calcium	310		1.0	0.22	mg/L	5		6020A	Total Recoverable
Chromium	0.0026	J	0.0050	0.0011	mg/L	1		6020A	Total Recoverable
Cobalt	0.0019		0.0010	0.00040	mg/L	1		6020A	Total Recoverable
Copper	0.0051		0.0020	0.00050	mg/L	1		6020A	Total Recoverable
Iron	2.1		0.10	0.047	mg/L	1		6020A	Total Recoverable
Lead	0.0027		0.00050	0.00019	mg/L	1		6020A	Total Recoverable
Magnesium	68		0.20	0.049	mg/L	1		6020A	Total Recoverable
Manganese	0.10		0.0025	0.00079	mg/L	1		6020A	Total Recoverable
Nickel	0.0065		0.0020	0.00063	mg/L	1		6020A	Total Recoverable
Potassium	11		0.50	0.11	mg/L	1		6020A	Total Recoverable
Selenium	0.0018	J	0.0025	0.00098	mg/L	1		6020A	Total Recoverable
Sodium	97		0.20	0.077	mg/L	1		6020A	Total Recoverable
Vanadium	0.0040	J	0.0050	0.0022	mg/L	1		6020A	Total Recoverable
Zinc	0.012	J	0.020	0.0069	mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	1700	B	10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	45		5.0	1.9	mg/L	1		SM 2540D	Total/NA

Client Sample ID: CPP-SW02-200507

Lab Sample ID: 500-181748-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.047		0.010	0.0017	mg/L	1		8260B	Total/NA
Methyl Ethyl Ketone	0.018		0.0050	0.0021	mg/L	1		8260B	Total/NA
2-Methylnaphthalene	0.040		0.0087	0.00028	mg/L	5		8270D	Total/NA
Acenaphthene	0.012		0.0044	0.0014	mg/L	5		8270D	Total/NA
Dibenzofuran	0.0088		0.0087	0.0011	mg/L	5		8270D	Total/NA
Fluorene	0.014		0.0044	0.0011	mg/L	5		8270D	Total/NA
Phenanthrene	0.075		0.0044	0.0013	mg/L	5		8270D	Total/NA
Pyrene	0.0045		0.0044	0.0019	mg/L	5		8270D	Total/NA
Aluminum	1.8		0.10	0.025	mg/L	1		6020A	Total Recoverable
Antimony	0.0013	J	0.0030	0.0013	mg/L	1		6020A	Total Recoverable
Arsenic	0.0029		0.0010	0.00023	mg/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Tetra Tech EM Inc.
Project/Site: Crawford Station Demolition Oversight

Job ID: 500-181748-1

Client Sample ID: CPP-SW02-200507 (Continued)

Lab Sample ID: 500-181748-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.066		0.0025	0.00073	mg/L	1		6020A	Total Recoverable
Calcium	310		1.0	0.22	mg/L	5		6020A	Total Recoverable
Chromium	0.0028	J	0.0050	0.0011	mg/L	1		6020A	Total Recoverable
Cobalt	0.0031		0.0010	0.00040	mg/L	1		6020A	Total Recoverable
Copper	0.0065		0.0020	0.00050	mg/L	1		6020A	Total Recoverable
Iron	2.8		0.10	0.047	mg/L	1		6020A	Total Recoverable
Lead	0.0043		0.00050	0.00019	mg/L	1		6020A	Total Recoverable
Magnesium	72		0.20	0.049	mg/L	1		6020A	Total Recoverable
Manganese	0.42		0.0025	0.00079	mg/L	1		6020A	Total Recoverable
Nickel	0.012		0.0020	0.00063	mg/L	1		6020A	Total Recoverable
Potassium	7.1		0.50	0.11	mg/L	1		6020A	Total Recoverable
Selenium	0.0020	J	0.0025	0.00098	mg/L	1		6020A	Total Recoverable
Sodium	90		0.20	0.077	mg/L	1		6020A	Total Recoverable
Vanadium	0.0066		0.0050	0.0022	mg/L	1		6020A	Total Recoverable
Zinc	0.020		0.020	0.0069	mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	1800	B	10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	58		6.7	2.6	mg/L	1		SM 2540D	Total/NA

Client Sample ID: CPP-SW03-200507

Lab Sample ID: 500-181748-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0080	J	0.010	0.0017	mg/L	1		8260B	Total/NA
Aluminum	1.3		0.10	0.025	mg/L	1		6020A	Total Recoverable
Antimony	0.0023	J	0.0030	0.0013	mg/L	1		6020A	Total Recoverable
Arsenic	0.0021		0.0010	0.00023	mg/L	1		6020A	Total Recoverable
Barium	0.066		0.0025	0.00073	mg/L	1		6020A	Total Recoverable
Calcium	180		0.20	0.044	mg/L	1		6020A	Total Recoverable
Chromium	0.0035	J	0.0050	0.0011	mg/L	1		6020A	Total Recoverable
Cobalt	0.0011		0.0010	0.00040	mg/L	1		6020A	Total Recoverable
Copper	0.0039		0.0020	0.00050	mg/L	1		6020A	Total Recoverable
Iron	1.6		0.10	0.047	mg/L	1		6020A	Total Recoverable
Lead	0.0031		0.00050	0.00019	mg/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Tetra Tech EM Inc.
Project/Site: Crawford Station Demolition Oversight

Job ID: 500-181748-1

Client Sample ID: CPP-SW03-200507 (Continued)

Lab Sample ID: 500-181748-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	30		0.20	0.049	mg/L	1		6020A	Total Recoverable
Manganese	0.041		0.0025	0.00079	mg/L	1		6020A	Total Recoverable
Nickel	0.0053		0.0020	0.00063	mg/L	1		6020A	Total Recoverable
Potassium	14		0.50	0.11	mg/L	1		6020A	Total Recoverable
Selenium	0.0033		0.0025	0.00098	mg/L	1		6020A	Total Recoverable
Sodium	170		0.20	0.077	mg/L	1		6020A	Total Recoverable
Vanadium	0.0067		0.0050	0.0022	mg/L	1		6020A	Total Recoverable
Zinc	0.011	J	0.020	0.0069	mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	1300	B	10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	32		5.0	1.9	mg/L	1		SM 2540D	Total/NA

Client Sample ID: CPP-SW01-200507-D

Lab Sample ID: 500-181748-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0048	J	0.010	0.0017	mg/L	1		8260B	Total/NA
Aluminum	1.4		0.10	0.025	mg/L	1		6020A	Total Recoverable
Antimony	0.0014	J	0.0030	0.0013	mg/L	1		6020A	Total Recoverable
Arsenic	0.0023		0.0010	0.00023	mg/L	1		6020A	Total Recoverable
Barium	0.050		0.0025	0.00073	mg/L	1		6020A	Total Recoverable
Calcium	300		1.0	0.22	mg/L	5		6020A	Total Recoverable
Chromium	0.0023	J	0.0050	0.0011	mg/L	1		6020A	Total Recoverable
Cobalt	0.0018		0.0010	0.00040	mg/L	1		6020A	Total Recoverable
Copper	0.0046		0.0020	0.00050	mg/L	1		6020A	Total Recoverable
Iron	2.1		0.10	0.047	mg/L	1		6020A	Total Recoverable
Lead	0.0026		0.00050	0.00019	mg/L	1		6020A	Total Recoverable
Magnesium	69		0.20	0.049	mg/L	1		6020A	Total Recoverable
Manganese	0.10		0.0025	0.00079	mg/L	1		6020A	Total Recoverable
Nickel	0.0066		0.0020	0.00063	mg/L	1		6020A	Total Recoverable
Potassium	11		0.50	0.11	mg/L	1		6020A	Total Recoverable
Selenium	0.0018	J	0.0025	0.00098	mg/L	1		6020A	Total Recoverable
Sodium	98		0.20	0.077	mg/L	1		6020A	Total Recoverable
Vanadium	0.0055		0.0050	0.0022	mg/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: Tetra Tech EM Inc.
Project/Site: Crawford Station Demolition Oversight

Job ID: 500-181748-1

Client Sample ID: CPP-SW01-200507-D (Continued)

Lab Sample ID: 500-181748-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.013	J	0.020	0.0069	mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	1700	B	10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	79		6.7	2.6	mg/L	1		SM 2540D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago



Method Summary

Client: Tetra Tech EM Inc.
Project/Site: Crawford Station Demolition Oversight

Job ID: 500-181748-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL CHI
5030B	Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI

Protocol References:

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 CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Tetra Tech EM Inc.
Project/Site: Crawford Station Demolition Oversight

Job ID: 500-181748-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-181748-1	CPP-SW01-200507	Water	05/07/20 15:24	05/08/20 09:55	
500-181748-2	CPP-SW02-200507	Water	05/07/20 15:46	05/08/20 09:55	
500-181748-3	CPP-SW03-200507	Water	05/07/20 15:50	05/08/20 09:55	
500-181748-4	CPP-SW01-200507-D	Water	05/07/20 15:24	05/08/20 09:55	

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Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Crawford Station Demolition Oversight

Job ID: 500-181748-1

Client Sample ID: CPP-SW01-200507

Lab Sample ID: 500-181748-1

Date Collected: 05/07/20 15:24

Matrix: Water

Date Received: 05/08/20 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0056	J	0.010	0.0017	mg/L			05/11/20 12:48	1
Benzene	<0.00050		0.00050	0.00015	mg/L			05/11/20 12:48	1
Bromodichloromethane	<0.0010		0.0010	0.00037	mg/L			05/11/20 12:48	1
Bromoform	<0.0010		0.0010	0.00048	mg/L			05/11/20 12:48	1
Bromomethane	<0.0030		0.0030	0.00080	mg/L			05/11/20 12:48	1
Methyl Ethyl Ketone	<0.0050		0.0050	0.0021	mg/L			05/11/20 12:48	1
Carbon disulfide	<0.0020		0.0020	0.00045	mg/L			05/11/20 12:48	1
Carbon tetrachloride	<0.0010		0.0010	0.00038	mg/L			05/11/20 12:48	1
Chlorobenzene	<0.0010		0.0010	0.00039	mg/L			05/11/20 12:48	1
Chloroethane	<0.0010		0.0010	0.00051	mg/L			05/11/20 12:48	1
Chloroform	<0.0020		0.0020	0.00037	mg/L			05/11/20 12:48	1
Chloromethane	<0.0010		0.0010	0.00032	mg/L			05/11/20 12:48	1
cis-1,2-Dichloroethene	<0.0010		0.0010	0.00041	mg/L			05/11/20 12:48	1
cis-1,3-Dichloropropene	<0.0010		0.0010	0.00042	mg/L			05/11/20 12:48	1
Dibromochloromethane	<0.0010		0.0010	0.00049	mg/L			05/11/20 12:48	1
1,1-Dichloroethane	<0.0010		0.0010	0.00041	mg/L			05/11/20 12:48	1
1,1-Dichloroethene	<0.0010		0.0010	0.00039	mg/L			05/11/20 12:48	1
1,2-Dichloropropane	<0.0010		0.0010	0.00043	mg/L			05/11/20 12:48	1
Ethylbenzene	<0.00050		0.00050	0.00018	mg/L			05/11/20 12:48	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/L			05/11/20 12:48	1
Methylene Chloride	<0.0050		0.0050	0.0016	mg/L			05/11/20 12:48	1
methyl isobutyl ketone	<0.0050		0.0050	0.0022	mg/L			05/11/20 12:48	1
Methyl tert-butyl ether	<0.0010		0.0010	0.00039	mg/L			05/11/20 12:48	1
Styrene	<0.0010		0.0010	0.00039	mg/L			05/11/20 12:48	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010	0.00040	mg/L			05/11/20 12:48	1
Tetrachloroethene	<0.0010		0.0010	0.00037	mg/L			05/11/20 12:48	1
Toluene	<0.00050		0.00050	0.00015	mg/L			05/11/20 12:48	1
trans-1,2-Dichloroethene	<0.0010		0.0010	0.00035	mg/L			05/11/20 12:48	1
trans-1,3-Dichloropropene	<0.0010		0.0010	0.00036	mg/L			05/11/20 12:48	1
1,1,1-Trichloroethane	<0.0010		0.0010	0.00038	mg/L			05/11/20 12:48	1
1,1,2-Trichloroethane	<0.0010		0.0010	0.00035	mg/L			05/11/20 12:48	1
Trichloroethene	<0.00050		0.00050	0.00016	mg/L			05/11/20 12:48	1
Vinyl chloride	<0.0010		0.0010	0.00020	mg/L			05/11/20 12:48	1
Xylenes, Total	<0.0010		0.0010	0.00022	mg/L			05/11/20 12:48	1
1,2-Dichloroethane	<0.0010		0.0010	0.00039	mg/L			05/11/20 12:48	1
1,3-Dichloropropene, Total	<0.0010		0.0010	0.00042	mg/L			05/11/20 12:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		72 - 124		05/11/20 12:48	1
Dibromofluoromethane	103		75 - 120		05/11/20 12:48	1
1,2-Dichloroethane-d4 (Surr)	102		75 - 126		05/11/20 12:48	1
Toluene-d8 (Surr)	92		75 - 120		05/11/20 12:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0016		0.0016	0.00019	mg/L		05/08/20 18:51	05/11/20 12:10	1
1,2-Dichlorobenzene	<0.0016		0.0016	0.00020	mg/L		05/08/20 18:51	05/11/20 12:10	1
1,3-Dichlorobenzene	<0.0016		0.0016	0.00017	mg/L		05/08/20 18:51	05/11/20 12:10	1
1,4-Dichlorobenzene	<0.0016		0.0016	0.00017	mg/L		05/08/20 18:51	05/11/20 12:10	1
2,2'-oxybis[1-chloropropane]	<0.0016		0.0016	0.00031	mg/L		05/08/20 18:51	05/11/20 12:10	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Crawford Station Demolition Oversight

Job ID: 500-181748-1

Client Sample ID: CPP-SW01-200507

Lab Sample ID: 500-181748-1

Date Collected: 05/07/20 15:24

Matrix: Water

Date Received: 05/08/20 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.0082	**1	0.0082	0.0021	mg/L		05/08/20 18:51	05/11/20 12:10	1
2,4,6-Trichlorophenol	<0.0041	**1	0.0041	0.00058	mg/L		05/08/20 18:51	05/11/20 12:10	1
2,4-Dichlorophenol	<0.0082	**1	0.0082	0.0021	mg/L		05/08/20 18:51	05/11/20 12:10	1
2,4-Dimethylphenol	<0.0082		0.0082	0.0015	mg/L		05/08/20 18:51	05/11/20 12:10	1
2,4-Dinitrophenol	<0.016	**1	0.016	0.0070	mg/L		05/08/20 18:51	05/11/20 12:10	1
2,4-Dinitrotoluene	<0.00082		0.00082	0.00020	mg/L		05/08/20 18:51	05/11/20 12:10	1
2,6-Dinitrotoluene	<0.00082		0.00082	0.000060	mg/L		05/08/20 18:51	05/11/20 12:10	1
2-Chloronaphthalene	<0.0016		0.0016	0.00019	mg/L		05/08/20 18:51	05/11/20 12:10	1
2-Chlorophenol	<0.0041	**1	0.0041	0.00046	mg/L		05/08/20 18:51	05/11/20 12:10	1
2-Methylnaphthalene	<0.0016		0.0016	0.000053	mg/L		05/08/20 18:51	05/11/20 12:10	1
2-Methylphenol	<0.0016		0.0016	0.00025	mg/L		05/08/20 18:51	05/11/20 12:10	1
2-Nitroaniline	<0.0041		0.0041	0.0011	mg/L		05/08/20 18:51	05/11/20 12:10	1
2-Nitrophenol	<0.0082	**1	0.0082	0.0020	mg/L		05/08/20 18:51	05/11/20 12:10	1
3 & 4 Methylphenol	<0.0016		0.0016	0.00037	mg/L		05/08/20 18:51	05/11/20 12:10	1
3,3'-Dichlorobenzidine	<0.0041		0.0041	0.0014	mg/L		05/08/20 18:51	05/11/20 12:10	1
3-Nitroaniline	<0.0082		0.0082	0.0015	mg/L		05/08/20 18:51	05/11/20 12:10	1
4,6-Dinitro-2-methylphenol	<0.016	**1	0.016	0.0048	mg/L		05/08/20 18:51	05/11/20 12:10	1
4-Bromophenyl phenyl ether	<0.0041		0.0041	0.00044	mg/L		05/08/20 18:51	05/11/20 12:10	1
4-Chloro-3-methylphenol	<0.0082		0.0082	0.0019	mg/L		05/08/20 18:51	05/11/20 12:10	1
4-Chloroaniline	<0.0082		0.0082	0.0016	mg/L		05/08/20 18:51	05/11/20 12:10	1
4-Chlorophenyl phenyl ether	<0.0041		0.0041	0.00052	mg/L		05/08/20 18:51	05/11/20 12:10	1
4-Nitroaniline	<0.0082	*1	0.0082	0.0014	mg/L		05/08/20 18:51	05/11/20 12:10	1
4-Nitrophenol	<0.016	**1	0.016	0.0061	mg/L		05/08/20 18:51	05/11/20 12:10	1
Acenaphthene	<0.00082		0.00082	0.00025	mg/L		05/08/20 18:51	05/11/20 12:10	1
Acenaphthylene	<0.00082		0.00082	0.00022	mg/L		05/08/20 18:51	05/11/20 12:10	1
Anthracene	<0.00082		0.00082	0.00027	mg/L		05/08/20 18:51	05/11/20 12:10	1
Benzo[a]anthracene	<0.00013		0.00013	0.000046	mg/L		05/08/20 18:51	05/11/20 12:10	1
Benzo[a]pyrene	<0.00016		0.00016	0.000081	mg/L		05/08/20 18:51	05/11/20 12:10	1
Benzo[b]fluoranthene	<0.00016		0.00016	0.000066	mg/L		05/08/20 18:51	05/11/20 12:10	1
Benzo[g,h,i]perylene	<0.00082		0.00082	0.00031	mg/L		05/08/20 18:51	05/11/20 12:10	1
Benzo[k]fluoranthene	<0.00016		0.00016	0.000052	mg/L		05/08/20 18:51	05/11/20 12:10	1
Bis(2-chloroethoxy)methane	<0.0016		0.0016	0.00023	mg/L		05/08/20 18:51	05/11/20 12:10	1
Bis(2-chloroethyl)ether	<0.0016		0.0016	0.00024	mg/L		05/08/20 18:51	05/11/20 12:10	1
Bis(2-ethylhexyl) phthalate	<0.0082		0.0082	0.0014	mg/L		05/08/20 18:51	05/11/20 12:10	1
Butyl benzyl phthalate	<0.0016		0.0016	0.00039	mg/L		05/08/20 18:51	05/11/20 12:10	1
Carbazole	<0.0041		0.0041	0.00029	mg/L		05/08/20 18:51	05/11/20 12:10	1
Chrysene	<0.00016		0.00016	0.000056	mg/L		05/08/20 18:51	05/11/20 12:10	1
Dibenz(a,h)anthracene	<0.00024		0.00024	0.000041	mg/L		05/08/20 18:51	05/11/20 12:10	1
Dibenzofuran	<0.0016		0.0016	0.00021	mg/L		05/08/20 18:51	05/11/20 12:10	1
Diethyl phthalate	<0.0041		0.0041	0.00029	mg/L		05/08/20 18:51	05/11/20 12:10	1
Dimethyl phthalate	<0.0041		0.0041	0.00026	mg/L		05/08/20 18:51	05/11/20 12:10	1
Di-n-butyl phthalate	<0.0041		0.0041	0.00060	mg/L		05/08/20 18:51	05/11/20 12:10	1
Di-n-octyl phthalate	<0.0082		0.0082	0.00086	mg/L		05/08/20 18:51	05/11/20 12:10	1
Fluoranthene	<0.00082		0.00082	0.00037	mg/L		05/08/20 18:51	05/11/20 12:10	1
Fluorene	<0.00082		0.00082	0.00020	mg/L		05/08/20 18:51	05/11/20 12:10	1
Hexachlorobenzene	<0.00041		0.00041	0.000065	mg/L		05/08/20 18:51	05/11/20 12:10	1
Hexachlorobutadiene	<0.0041		0.0041	0.00042	mg/L		05/08/20 18:51	05/11/20 12:10	1
Hexachlorocyclopentadiene	<0.016		0.016	0.0052	mg/L		05/08/20 18:51	05/11/20 12:10	1
Hexachloroethane	<0.0041		0.0041	0.00049	mg/L		05/08/20 18:51	05/11/20 12:10	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Crawford Station Demolition Oversight

Job ID: 500-181748-1

Client Sample ID: CPP-SW01-200507

Lab Sample ID: 500-181748-1

Date Collected: 05/07/20 15:24

Matrix: Water

Date Received: 05/08/20 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016	0.000061	mg/L		05/08/20 18:51	05/11/20 12:10	1
Isophorone	<0.0016		0.0016	0.00031	mg/L		05/08/20 18:51	05/11/20 12:10	1
Naphthalene	<0.00082		0.00082	0.00025	mg/L		05/08/20 18:51	05/11/20 12:10	1
Nitrobenzene	<0.00082		0.00082	0.00037	mg/L		05/08/20 18:51	05/11/20 12:10	1
N-Nitrosodi-n-propylamine	<0.00041		0.00041	0.00013	mg/L		05/08/20 18:51	05/11/20 12:10	1
N-Nitrosodiphenylamine	<0.0016		0.0016	0.00030	mg/L		05/08/20 18:51	05/11/20 12:10	1
Pentachlorophenol	<0.016	* *1	0.016	0.0032	mg/L		05/08/20 18:51	05/11/20 12:10	1
Phenanthrene	<0.00082		0.00082	0.00025	mg/L		05/08/20 18:51	05/11/20 12:10	1
Phenol	<0.0041	*1	0.0041	0.00055	mg/L		05/08/20 18:51	05/11/20 12:10	1
Pyrene	<0.00082		0.00082	0.00035	mg/L		05/08/20 18:51	05/11/20 12:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	63		27 - 110	05/08/20 18:51	05/11/20 12:10	1
Phenol-d5 (Surr)	67		20 - 110	05/08/20 18:51	05/11/20 12:10	1
Nitrobenzene-d5 (Surr)	79		36 - 120	05/08/20 18:51	05/11/20 12:10	1
2-Fluorobiphenyl	90		34 - 110	05/08/20 18:51	05/11/20 12:10	1
2,4,6-Tribromophenol (Surr)	104		40 - 145	05/08/20 18:51	05/11/20 12:10	1
Terphenyl-d14 (Surr)	99		40 - 145	05/08/20 18:51	05/11/20 12:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.00039		0.00039	0.000065	mg/L		05/08/20 13:06	05/08/20 21:39	1
PCB-1221	<0.00039		0.00039	0.00019	mg/L		05/08/20 13:06	05/08/20 21:39	1
PCB-1232	<0.00039		0.00039	0.00019	mg/L		05/08/20 13:06	05/08/20 21:39	1
PCB-1242	<0.00039		0.00039	0.00019	mg/L		05/08/20 13:06	05/08/20 21:39	1
PCB-1248	<0.00039		0.00039	0.00019	mg/L		05/08/20 13:06	05/08/20 21:39	1
PCB-1254	<0.00039		0.00039	0.00019	mg/L		05/08/20 13:06	05/08/20 21:39	1
PCB-1260	<0.00039		0.00039	0.000068	mg/L		05/08/20 13:06	05/08/20 21:39	1
Polychlorinated biphenyls, Total	<0.00039		0.00039	0.00019	mg/L		05/08/20 13:06	05/08/20 21:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	64		30 - 120	05/08/20 13:06	05/08/20 21:39	1
DCB Decachlorobiphenyl	87		30 - 140	05/08/20 13:06	05/08/20 21:39	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.5		0.10	0.025	mg/L		05/08/20 17:56	05/11/20 09:18	1
Antimony	0.0014	J	0.0030	0.0013	mg/L		05/08/20 17:56	05/11/20 09:18	1
Arsenic	0.0021		0.0010	0.00023	mg/L		05/08/20 17:56	05/11/20 09:18	1
Barium	0.049		0.0025	0.00073	mg/L		05/08/20 17:56	05/11/20 09:18	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		05/08/20 17:56	05/11/20 09:18	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		05/08/20 17:56	05/11/20 09:18	1
Calcium	310		1.0	0.22	mg/L		05/08/20 17:56	05/11/20 09:36	5
Chromium	0.0026	J	0.0050	0.0011	mg/L		05/08/20 17:56	05/11/20 09:18	1
Cobalt	0.0019		0.0010	0.00040	mg/L		05/08/20 17:56	05/11/20 09:18	1
Copper	0.0051		0.0020	0.00050	mg/L		05/08/20 17:56	05/11/20 09:18	1
Iron	2.1		0.10	0.047	mg/L		05/08/20 17:56	05/11/20 09:18	1
Lead	0.0027		0.00050	0.00019	mg/L		05/08/20 17:56	05/11/20 09:18	1
Magnesium	68		0.20	0.049	mg/L		05/08/20 17:56	05/11/20 09:18	1
Manganese	0.10		0.0025	0.00079	mg/L		05/08/20 17:56	05/11/20 09:18	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Tetra Tech EM Inc.
 Project/Site: Crawford Station Demolition Oversight

Job ID: 500-181748-1

Client Sample ID: CPP-SW01-200507

Lab Sample ID: 500-181748-1

Date Collected: 05/07/20 15:24

Matrix: Water

Date Received: 05/08/20 09:55

Method: 6020A - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	0.0065		0.0020	0.00063	mg/L		05/08/20 17:56	05/11/20 09:18	1
Potassium	11		0.50	0.11	mg/L		05/08/20 17:56	05/11/20 09:18	1
Selenium	0.0018	J	0.0025	0.00098	mg/L		05/08/20 17:56	05/11/20 09:18	1
Silver	<0.00050		0.00050	0.00012	mg/L		05/08/20 17:56	05/11/20 09:18	1
Sodium	97		0.20	0.077	mg/L		05/08/20 17:56	05/11/20 09:18	1
Thallium	<0.0020		0.0020	0.00057	mg/L		05/08/20 17:56	05/11/20 09:18	1
Vanadium	0.0040	J	0.0050	0.0022	mg/L		05/08/20 17:56	05/11/20 09:18	1
Zinc	0.012	J	0.020	0.0069	mg/L		05/08/20 17:56	05/11/20 09:18	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000098	mg/L		05/08/20 10:10	05/11/20 09:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1700	B	10	4.3	mg/L			05/09/20 20:56	1
Total Suspended Solids	45		5.0	1.9	mg/L			05/08/20 12:29	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Crawford Station Demolition Oversight

Job ID: 500-181748-1

Client Sample ID: CPP-SW02-200507

Lab Sample ID: 500-181748-2

Date Collected: 05/07/20 15:46

Matrix: Water

Date Received: 05/08/20 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.047		0.010	0.0017	mg/L			05/11/20 13:17	1
Benzene	<0.00050		0.00050	0.00015	mg/L			05/11/20 13:17	1
Bromodichloromethane	<0.0010		0.0010	0.00037	mg/L			05/11/20 13:17	1
Bromoform	<0.0010		0.0010	0.00048	mg/L			05/11/20 13:17	1
Bromomethane	<0.0030		0.0030	0.00080	mg/L			05/11/20 13:17	1
Methyl Ethyl Ketone	0.018		0.0050	0.0021	mg/L			05/11/20 13:17	1
Carbon disulfide	<0.0020		0.0020	0.00045	mg/L			05/11/20 13:17	1
Carbon tetrachloride	<0.0010		0.0010	0.00038	mg/L			05/11/20 13:17	1
Chlorobenzene	<0.0010		0.0010	0.00039	mg/L			05/11/20 13:17	1
Chloroethane	<0.0010		0.0010	0.00051	mg/L			05/11/20 13:17	1
Chloroform	<0.0020		0.0020	0.00037	mg/L			05/11/20 13:17	1
Chloromethane	<0.0010		0.0010	0.00032	mg/L			05/11/20 13:17	1
cis-1,2-Dichloroethene	<0.0010		0.0010	0.00041	mg/L			05/11/20 13:17	1
cis-1,3-Dichloropropene	<0.0010		0.0010	0.00042	mg/L			05/11/20 13:17	1
Dibromochloromethane	<0.0010		0.0010	0.00049	mg/L			05/11/20 13:17	1
1,1-Dichloroethane	<0.0010		0.0010	0.00041	mg/L			05/11/20 13:17	1
1,1-Dichloroethene	<0.0010		0.0010	0.00039	mg/L			05/11/20 13:17	1
1,2-Dichloropropane	<0.0010		0.0010	0.00043	mg/L			05/11/20 13:17	1
Ethylbenzene	<0.00050		0.00050	0.00018	mg/L			05/11/20 13:17	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/L			05/11/20 13:17	1
Methylene Chloride	<0.0050		0.0050	0.0016	mg/L			05/11/20 13:17	1
methyl isobutyl ketone	<0.0050		0.0050	0.0022	mg/L			05/11/20 13:17	1
Methyl tert-butyl ether	<0.0010		0.0010	0.00039	mg/L			05/11/20 13:17	1
Styrene	<0.0010		0.0010	0.00039	mg/L			05/11/20 13:17	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010	0.00040	mg/L			05/11/20 13:17	1
Tetrachloroethene	<0.0010		0.0010	0.00037	mg/L			05/11/20 13:17	1
Toluene	<0.00050		0.00050	0.00015	mg/L			05/11/20 13:17	1
trans-1,2-Dichloroethene	<0.0010		0.0010	0.00035	mg/L			05/11/20 13:17	1
trans-1,3-Dichloropropene	<0.0010		0.0010	0.00036	mg/L			05/11/20 13:17	1
1,1,1-Trichloroethane	<0.0010		0.0010	0.00038	mg/L			05/11/20 13:17	1
1,1,2-Trichloroethane	<0.0010		0.0010	0.00035	mg/L			05/11/20 13:17	1
Trichloroethene	<0.00050		0.00050	0.00016	mg/L			05/11/20 13:17	1
Vinyl chloride	<0.0010		0.0010	0.00020	mg/L			05/11/20 13:17	1
Xylenes, Total	<0.0010		0.0010	0.00022	mg/L			05/11/20 13:17	1
1,2-Dichloroethane	<0.0010		0.0010	0.00039	mg/L			05/11/20 13:17	1
1,3-Dichloropropene, Total	<0.0010		0.0010	0.00042	mg/L			05/11/20 13:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		72 - 124		05/11/20 13:17	1
Dibromofluoromethane	105		75 - 120		05/11/20 13:17	1
1,2-Dichloroethane-d4 (Surr)	105		75 - 126		05/11/20 13:17	1
Toluene-d8 (Surr)	92		75 - 120		05/11/20 13:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0087		0.0087	0.0010	mg/L		05/08/20 18:51	05/11/20 13:25	5
1,2-Dichlorobenzene	<0.0087		0.0087	0.0011	mg/L		05/08/20 18:51	05/11/20 13:25	5
1,3-Dichlorobenzene	<0.0087		0.0087	0.00091	mg/L		05/08/20 18:51	05/11/20 13:25	5
1,4-Dichlorobenzene	<0.0087		0.0087	0.00091	mg/L		05/08/20 18:51	05/11/20 13:25	5
2,2'-oxybis[1-chloropropane]	<0.0087		0.0087	0.0017	mg/L		05/08/20 18:51	05/11/20 13:25	5

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Crawford Station Demolition Oversight

Job ID: 500-181748-1

Client Sample ID: CPP-SW02-200507

Lab Sample ID: 500-181748-2

Date Collected: 05/07/20 15:46

Matrix: Water

Date Received: 05/08/20 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.044	**1	0.044	0.011	mg/L		05/08/20 18:51	05/11/20 13:25	5
2,4,6-Trichlorophenol	<0.022	**1	0.022	0.0031	mg/L		05/08/20 18:51	05/11/20 13:25	5
2,4-Dichlorophenol	<0.044	**1	0.044	0.011	mg/L		05/08/20 18:51	05/11/20 13:25	5
2,4-Dimethylphenol	<0.044		0.044	0.0079	mg/L		05/08/20 18:51	05/11/20 13:25	5
2,4-Dinitrophenol	<0.087	**1	0.087	0.038	mg/L		05/08/20 18:51	05/11/20 13:25	5
2,4-Dinitrotoluene	<0.0044		0.0044	0.0011	mg/L		05/08/20 18:51	05/11/20 13:25	5
2,6-Dinitrotoluene	<0.0044		0.0044	0.00032	mg/L		05/08/20 18:51	05/11/20 13:25	5
2-Chloronaphthalene	<0.0087		0.0087	0.0010	mg/L		05/08/20 18:51	05/11/20 13:25	5
2-Chlorophenol	<0.022	**1	0.022	0.0024	mg/L		05/08/20 18:51	05/11/20 13:25	5
2-Methylnaphthalene	0.040		0.0087	0.00028	mg/L		05/08/20 18:51	05/11/20 13:25	5
2-Methylphenol	<0.0087		0.0087	0.0013	mg/L		05/08/20 18:51	05/11/20 13:25	5
2-Nitroaniline	<0.022		0.022	0.0056	mg/L		05/08/20 18:51	05/11/20 13:25	5
2-Nitrophenol	<0.044	**1	0.044	0.011	mg/L		05/08/20 18:51	05/11/20 13:25	5
3 & 4 Methylphenol	<0.0087		0.0087	0.0020	mg/L		05/08/20 18:51	05/11/20 13:25	5
3,3'-Dichlorobenzidine	<0.022		0.022	0.0075	mg/L		05/08/20 18:51	05/11/20 13:25	5
3-Nitroaniline	<0.044		0.044	0.0078	mg/L		05/08/20 18:51	05/11/20 13:25	5
4,6-Dinitro-2-methylphenol	<0.087	**1	0.087	0.026	mg/L		05/08/20 18:51	05/11/20 13:25	5
4-Bromophenyl phenyl ether	<0.022		0.022	0.0024	mg/L		05/08/20 18:51	05/11/20 13:25	5
4-Chloro-3-methylphenol	<0.044		0.044	0.010	mg/L		05/08/20 18:51	05/11/20 13:25	5
4-Chloroaniline	<0.044		0.044	0.0088	mg/L		05/08/20 18:51	05/11/20 13:25	5
4-Chlorophenyl phenyl ether	<0.022		0.022	0.0028	mg/L		05/08/20 18:51	05/11/20 13:25	5
4-Nitroaniline	<0.044	*1	0.044	0.0073	mg/L		05/08/20 18:51	05/11/20 13:25	5
4-Nitrophenol	<0.087	**1	0.087	0.032	mg/L		05/08/20 18:51	05/11/20 13:25	5
Acenaphthene	0.012		0.0044	0.0014	mg/L		05/08/20 18:51	05/11/20 13:25	5
Acenaphthylene	<0.0044		0.0044	0.0012	mg/L		05/08/20 18:51	05/11/20 13:25	5
Anthracene	<0.0044		0.0044	0.0015	mg/L		05/08/20 18:51	05/11/20 13:25	5
Benzo[a]anthracene	<0.00071		0.00071	0.00025	mg/L		05/08/20 18:51	05/11/20 13:25	5
Benzo[a]pyrene	<0.00087		0.00087	0.00043	mg/L		05/08/20 18:51	05/11/20 13:25	5
Benzo[b]fluoranthene	<0.00087		0.00087	0.00035	mg/L		05/08/20 18:51	05/11/20 13:25	5
Benzo[g,h,i]perylene	<0.0044		0.0044	0.0016	mg/L		05/08/20 18:51	05/11/20 13:25	5
Benzo[k]fluoranthene	<0.00087		0.00087	0.00028	mg/L		05/08/20 18:51	05/11/20 13:25	5
Bis(2-chloroethoxy)methane	<0.0087		0.0087	0.0012	mg/L		05/08/20 18:51	05/11/20 13:25	5
Bis(2-chloroethyl)ether	<0.0087		0.0087	0.0013	mg/L		05/08/20 18:51	05/11/20 13:25	5
Bis(2-ethylhexyl) phthalate	<0.044		0.044	0.0075	mg/L		05/08/20 18:51	05/11/20 13:25	5
Butyl benzyl phthalate	<0.0087		0.0087	0.0021	mg/L		05/08/20 18:51	05/11/20 13:25	5
Carbazole	<0.022		0.022	0.0015	mg/L		05/08/20 18:51	05/11/20 13:25	5
Chrysene	<0.00087		0.00087	0.00030	mg/L		05/08/20 18:51	05/11/20 13:25	5
Dibenz(a,h)anthracene	<0.0013		0.0013	0.00022	mg/L		05/08/20 18:51	05/11/20 13:25	5
Dibenzofuran	0.0088		0.0087	0.0011	mg/L		05/08/20 18:51	05/11/20 13:25	5
Diethyl phthalate	<0.022		0.022	0.0016	mg/L		05/08/20 18:51	05/11/20 13:25	5
Dimethyl phthalate	<0.022		0.022	0.0014	mg/L		05/08/20 18:51	05/11/20 13:25	5
Di-n-butyl phthalate	<0.022		0.022	0.0032	mg/L		05/08/20 18:51	05/11/20 13:25	5
Di-n-octyl phthalate	<0.044		0.044	0.0046	mg/L		05/08/20 18:51	05/11/20 13:25	5
Fluoranthene	<0.0044		0.0044	0.0020	mg/L		05/08/20 18:51	05/11/20 13:25	5
Fluorene	0.014		0.0044	0.0011	mg/L		05/08/20 18:51	05/11/20 13:25	5
Hexachlorobenzene	<0.0022		0.0022	0.00035	mg/L		05/08/20 18:51	05/11/20 13:25	5
Hexachlorobutadiene	<0.022		0.022	0.0023	mg/L		05/08/20 18:51	05/11/20 13:25	5
Hexachlorocyclopentadiene	<0.087		0.087	0.028	mg/L		05/08/20 18:51	05/11/20 13:25	5
Hexachloroethane	<0.022		0.022	0.0026	mg/L		05/08/20 18:51	05/11/20 13:25	5

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Crawford Station Demolition Oversight

Job ID: 500-181748-1

Client Sample ID: CPP-SW02-200507

Lab Sample ID: 500-181748-2

Date Collected: 05/07/20 15:46

Matrix: Water

Date Received: 05/08/20 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.00087		0.00087	0.00033	mg/L		05/08/20 18:51	05/11/20 13:25	5
Isophorone	<0.0087		0.0087	0.0016	mg/L		05/08/20 18:51	05/11/20 13:25	5
Naphthalene	<0.0044		0.0044	0.0014	mg/L		05/08/20 18:51	05/11/20 13:25	5
Nitrobenzene	<0.0044		0.0044	0.0020	mg/L		05/08/20 18:51	05/11/20 13:25	5
N-Nitrosodi-n-propylamine	<0.0022		0.0022	0.00067	mg/L		05/08/20 18:51	05/11/20 13:25	5
N-Nitrosodiphenylamine	<0.0087		0.0087	0.0016	mg/L		05/08/20 18:51	05/11/20 13:25	5
Pentachlorophenol	<0.087	* *1	0.087	0.017	mg/L		05/08/20 18:51	05/11/20 13:25	5
Phenanthrene	0.075		0.0044	0.0013	mg/L		05/08/20 18:51	05/11/20 13:25	5
Phenol	<0.022	*1	0.022	0.0029	mg/L		05/08/20 18:51	05/11/20 13:25	5
Pyrene	0.0045		0.0044	0.0019	mg/L		05/08/20 18:51	05/11/20 13:25	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	84		27 - 110	05/08/20 18:51	05/11/20 13:25	5
Phenol-d5 (Surr)	76		20 - 110	05/08/20 18:51	05/11/20 13:25	5
Nitrobenzene-d5 (Surr)	91		36 - 120	05/08/20 18:51	05/11/20 13:25	5
2-Fluorobiphenyl	143	X	34 - 110	05/08/20 18:51	05/11/20 13:25	5
2,4,6-Tribromophenol (Surr)	137		40 - 145	05/08/20 18:51	05/11/20 13:25	5
Terphenyl-d14 (Surr)	105		40 - 145	05/08/20 18:51	05/11/20 13:25	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.00048		0.00048	0.000080	mg/L		05/08/20 13:06	05/08/20 21:55	1
PCB-1221	<0.00048		0.00048	0.00024	mg/L		05/08/20 13:06	05/08/20 21:55	1
PCB-1232	<0.00048		0.00048	0.00024	mg/L		05/08/20 13:06	05/08/20 21:55	1
PCB-1242	<0.00048		0.00048	0.00024	mg/L		05/08/20 13:06	05/08/20 21:55	1
PCB-1248	<0.00048		0.00048	0.00024	mg/L		05/08/20 13:06	05/08/20 21:55	1
PCB-1254	<0.00048		0.00048	0.00024	mg/L		05/08/20 13:06	05/08/20 21:55	1
PCB-1260	<0.00048		0.00048	0.000084	mg/L		05/08/20 13:06	05/08/20 21:55	1
Polychlorinated biphenyls, Total	<0.00048		0.00048	0.00024	mg/L		05/08/20 13:06	05/08/20 21:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	84		30 - 120	05/08/20 13:06	05/08/20 21:55	1
DCB Decachlorobiphenyl	71		30 - 140	05/08/20 13:06	05/08/20 21:55	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.8		0.10	0.025	mg/L		05/08/20 17:56	05/11/20 09:21	1
Antimony	0.0013	J	0.0030	0.0013	mg/L		05/08/20 17:56	05/11/20 09:21	1
Arsenic	0.0029		0.0010	0.00023	mg/L		05/08/20 17:56	05/11/20 09:21	1
Barium	0.066		0.0025	0.00073	mg/L		05/08/20 17:56	05/11/20 09:21	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		05/08/20 17:56	05/11/20 09:21	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		05/08/20 17:56	05/11/20 09:21	1
Calcium	310		1.0	0.22	mg/L		05/08/20 17:56	05/11/20 09:25	5
Chromium	0.0028	J	0.0050	0.0011	mg/L		05/08/20 17:56	05/11/20 09:21	1
Cobalt	0.0031		0.0010	0.00040	mg/L		05/08/20 17:56	05/11/20 09:21	1
Copper	0.0065		0.0020	0.00050	mg/L		05/08/20 17:56	05/11/20 09:21	1
Iron	2.8		0.10	0.047	mg/L		05/08/20 17:56	05/11/20 09:21	1
Lead	0.0043		0.00050	0.00019	mg/L		05/08/20 17:56	05/11/20 09:21	1
Magnesium	72		0.20	0.049	mg/L		05/08/20 17:56	05/11/20 09:21	1
Manganese	0.42		0.0025	0.00079	mg/L		05/08/20 17:56	05/11/20 09:21	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Tetra Tech EM Inc.
 Project/Site: Crawford Station Demolition Oversight

Job ID: 500-181748-1

Client Sample ID: CPP-SW02-200507

Lab Sample ID: 500-181748-2

Date Collected: 05/07/20 15:46

Matrix: Water

Date Received: 05/08/20 09:55

Method: 6020A - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	0.012		0.0020	0.00063	mg/L		05/08/20 17:56	05/11/20 09:21	1
Potassium	7.1		0.50	0.11	mg/L		05/08/20 17:56	05/11/20 09:21	1
Selenium	0.0020	J	0.0025	0.00098	mg/L		05/08/20 17:56	05/11/20 09:21	1
Silver	<0.00050		0.00050	0.00012	mg/L		05/08/20 17:56	05/11/20 09:21	1
Sodium	90		0.20	0.077	mg/L		05/08/20 17:56	05/11/20 09:21	1
Thallium	<0.0020		0.0020	0.00057	mg/L		05/08/20 17:56	05/11/20 09:21	1
Vanadium	0.0066		0.0050	0.0022	mg/L		05/08/20 17:56	05/11/20 09:21	1
Zinc	0.020		0.020	0.0069	mg/L		05/08/20 17:56	05/11/20 09:21	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000098	mg/L		05/08/20 10:10	05/11/20 09:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1800	B	10	4.3	mg/L			05/09/20 20:58	1
Total Suspended Solids	58		6.7	2.6	mg/L			05/08/20 12:30	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Crawford Station Demolition Oversight

Job ID: 500-181748-1

Client Sample ID: CPP-SW03-200507

Lab Sample ID: 500-181748-3

Date Collected: 05/07/20 15:50

Matrix: Water

Date Received: 05/08/20 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0080	J	0.010	0.0017	mg/L			05/11/20 13:45	1
Benzene	<0.00050		0.00050	0.00015	mg/L			05/11/20 13:45	1
Bromodichloromethane	<0.0010		0.0010	0.00037	mg/L			05/11/20 13:45	1
Bromoform	<0.0010		0.0010	0.00048	mg/L			05/11/20 13:45	1
Bromomethane	<0.0030		0.0030	0.00080	mg/L			05/11/20 13:45	1
Methyl Ethyl Ketone	<0.0050		0.0050	0.0021	mg/L			05/11/20 13:45	1
Carbon disulfide	<0.0020		0.0020	0.00045	mg/L			05/11/20 13:45	1
Carbon tetrachloride	<0.0010		0.0010	0.00038	mg/L			05/11/20 13:45	1
Chlorobenzene	<0.0010		0.0010	0.00039	mg/L			05/11/20 13:45	1
Chloroethane	<0.0010		0.0010	0.00051	mg/L			05/11/20 13:45	1
Chloroform	<0.0020		0.0020	0.00037	mg/L			05/11/20 13:45	1
Chloromethane	<0.0010		0.0010	0.00032	mg/L			05/11/20 13:45	1
cis-1,2-Dichloroethene	<0.0010		0.0010	0.00041	mg/L			05/11/20 13:45	1
cis-1,3-Dichloropropene	<0.0010		0.0010	0.00042	mg/L			05/11/20 13:45	1
Dibromochloromethane	<0.0010		0.0010	0.00049	mg/L			05/11/20 13:45	1
1,1-Dichloroethane	<0.0010		0.0010	0.00041	mg/L			05/11/20 13:45	1
1,1-Dichloroethene	<0.0010		0.0010	0.00039	mg/L			05/11/20 13:45	1
1,2-Dichloropropane	<0.0010		0.0010	0.00043	mg/L			05/11/20 13:45	1
Ethylbenzene	<0.00050		0.00050	0.00018	mg/L			05/11/20 13:45	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/L			05/11/20 13:45	1
Methylene Chloride	<0.0050		0.0050	0.0016	mg/L			05/11/20 13:45	1
methyl isobutyl ketone	<0.0050		0.0050	0.0022	mg/L			05/11/20 13:45	1
Methyl tert-butyl ether	<0.0010		0.0010	0.00039	mg/L			05/11/20 13:45	1
Styrene	<0.0010		0.0010	0.00039	mg/L			05/11/20 13:45	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010	0.00040	mg/L			05/11/20 13:45	1
Tetrachloroethene	<0.0010		0.0010	0.00037	mg/L			05/11/20 13:45	1
Toluene	<0.00050		0.00050	0.00015	mg/L			05/11/20 13:45	1
trans-1,2-Dichloroethene	<0.0010		0.0010	0.00035	mg/L			05/11/20 13:45	1
trans-1,3-Dichloropropene	<0.0010		0.0010	0.00036	mg/L			05/11/20 13:45	1
1,1,1-Trichloroethane	<0.0010		0.0010	0.00038	mg/L			05/11/20 13:45	1
1,1,2-Trichloroethane	<0.0010		0.0010	0.00035	mg/L			05/11/20 13:45	1
Trichloroethene	<0.00050		0.00050	0.00016	mg/L			05/11/20 13:45	1
Vinyl chloride	<0.0010		0.0010	0.00020	mg/L			05/11/20 13:45	1
Xylenes, Total	<0.0010		0.0010	0.00022	mg/L			05/11/20 13:45	1
1,2-Dichloroethane	<0.0010		0.0010	0.00039	mg/L			05/11/20 13:45	1
1,3-Dichloropropene, Total	<0.0010		0.0010	0.00042	mg/L			05/11/20 13:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		72 - 124		05/11/20 13:45	1
Dibromofluoromethane	107		75 - 120		05/11/20 13:45	1
1,2-Dichloroethane-d4 (Surr)	104		75 - 126		05/11/20 13:45	1
Toluene-d8 (Surr)	92		75 - 120		05/11/20 13:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0016		0.0016	0.00019	mg/L		05/08/20 18:51	05/11/20 12:35	1
1,2-Dichlorobenzene	<0.0016		0.0016	0.00020	mg/L		05/08/20 18:51	05/11/20 12:35	1
1,3-Dichlorobenzene	<0.0016		0.0016	0.00017	mg/L		05/08/20 18:51	05/11/20 12:35	1
1,4-Dichlorobenzene	<0.0016		0.0016	0.00017	mg/L		05/08/20 18:51	05/11/20 12:35	1
2,2'-oxybis[1-chloropropane]	<0.0016		0.0016	0.00030	mg/L		05/08/20 18:51	05/11/20 12:35	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Crawford Station Demolition Oversight

Job ID: 500-181748-1

Client Sample ID: CPP-SW03-200507

Lab Sample ID: 500-181748-3

Date Collected: 05/07/20 15:50

Matrix: Water

Date Received: 05/08/20 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.0080	**1	0.0080	0.0021	mg/L		05/08/20 18:51	05/11/20 12:35	1
2,4,6-Trichlorophenol	<0.0040	**1	0.0040	0.00057	mg/L		05/08/20 18:51	05/11/20 12:35	1
2,4-Dichlorophenol	<0.0080	**1	0.0080	0.0021	mg/L		05/08/20 18:51	05/11/20 12:35	1
2,4-Dimethylphenol	<0.0080		0.0080	0.0014	mg/L		05/08/20 18:51	05/11/20 12:35	1
2,4-Dinitrophenol	<0.016	**1	0.016	0.0069	mg/L		05/08/20 18:51	05/11/20 12:35	1
2,4-Dinitrotoluene	<0.00080		0.00080	0.00020	mg/L		05/08/20 18:51	05/11/20 12:35	1
2,6-Dinitrotoluene	<0.00080		0.00080	0.000059	mg/L		05/08/20 18:51	05/11/20 12:35	1
2-Chloronaphthalene	<0.0016		0.0016	0.00019	mg/L		05/08/20 18:51	05/11/20 12:35	1
2-Chlorophenol	<0.0040	**1	0.0040	0.00045	mg/L		05/08/20 18:51	05/11/20 12:35	1
2-Methylnaphthalene	<0.0016		0.0016	0.000052	mg/L		05/08/20 18:51	05/11/20 12:35	1
2-Methylphenol	<0.0016		0.0016	0.00024	mg/L		05/08/20 18:51	05/11/20 12:35	1
2-Nitroaniline	<0.0040		0.0040	0.0010	mg/L		05/08/20 18:51	05/11/20 12:35	1
2-Nitrophenol	<0.0080	**1	0.0080	0.0020	mg/L		05/08/20 18:51	05/11/20 12:35	1
3 & 4 Methylphenol	<0.0016		0.0016	0.00036	mg/L		05/08/20 18:51	05/11/20 12:35	1
3,3'-Dichlorobenzidine	<0.0040		0.0040	0.0014	mg/L		05/08/20 18:51	05/11/20 12:35	1
3-Nitroaniline	<0.0080		0.0080	0.0014	mg/L		05/08/20 18:51	05/11/20 12:35	1
4,6-Dinitro-2-methylphenol	<0.016	**1	0.016	0.0047	mg/L		05/08/20 18:51	05/11/20 12:35	1
4-Bromophenyl phenyl ether	<0.0040		0.0040	0.00043	mg/L		05/08/20 18:51	05/11/20 12:35	1
4-Chloro-3-methylphenol	<0.0080		0.0080	0.0018	mg/L		05/08/20 18:51	05/11/20 12:35	1
4-Chloroaniline	<0.0080		0.0080	0.0016	mg/L		05/08/20 18:51	05/11/20 12:35	1
4-Chlorophenyl phenyl ether	<0.0040		0.0040	0.00051	mg/L		05/08/20 18:51	05/11/20 12:35	1
4-Nitroaniline	<0.0080	*1	0.0080	0.0013	mg/L		05/08/20 18:51	05/11/20 12:35	1
4-Nitrophenol	<0.016	**1	0.016	0.0059	mg/L		05/08/20 18:51	05/11/20 12:35	1
Acenaphthene	<0.00080		0.00080	0.00025	mg/L		05/08/20 18:51	05/11/20 12:35	1
Acenaphthylene	<0.00080		0.00080	0.00021	mg/L		05/08/20 18:51	05/11/20 12:35	1
Anthracene	<0.00080		0.00080	0.00027	mg/L		05/08/20 18:51	05/11/20 12:35	1
Benzo[a]anthracene	<0.00013		0.00013	0.000045	mg/L		05/08/20 18:51	05/11/20 12:35	1
Benzo[a]pyrene	<0.00016		0.00016	0.000079	mg/L		05/08/20 18:51	05/11/20 12:35	1
Benzo[b]fluoranthene	<0.00016		0.00016	0.000065	mg/L		05/08/20 18:51	05/11/20 12:35	1
Benzo[g,h,i]perylene	<0.00080		0.00080	0.00030	mg/L		05/08/20 18:51	05/11/20 12:35	1
Benzo[k]fluoranthene	<0.00016		0.00016	0.000051	mg/L		05/08/20 18:51	05/11/20 12:35	1
Bis(2-chloroethoxy)methane	<0.0016		0.0016	0.00023	mg/L		05/08/20 18:51	05/11/20 12:35	1
Bis(2-chloroethyl)ether	<0.0016		0.0016	0.00023	mg/L		05/08/20 18:51	05/11/20 12:35	1
Bis(2-ethylhexyl) phthalate	<0.0080		0.0080	0.0014	mg/L		05/08/20 18:51	05/11/20 12:35	1
Butyl benzyl phthalate	<0.0016		0.0016	0.00038	mg/L		05/08/20 18:51	05/11/20 12:35	1
Carbazole	<0.0040		0.0040	0.00028	mg/L		05/08/20 18:51	05/11/20 12:35	1
Chrysene	<0.00016		0.00016	0.000055	mg/L		05/08/20 18:51	05/11/20 12:35	1
Dibenz(a,h)anthracene	<0.00024		0.00024	0.000041	mg/L		05/08/20 18:51	05/11/20 12:35	1
Dibenzofuran	<0.0016		0.0016	0.00021	mg/L		05/08/20 18:51	05/11/20 12:35	1
Diethyl phthalate	<0.0040		0.0040	0.00029	mg/L		05/08/20 18:51	05/11/20 12:35	1
Dimethyl phthalate	<0.0040		0.0040	0.00025	mg/L		05/08/20 18:51	05/11/20 12:35	1
Di-n-butyl phthalate	<0.0040		0.0040	0.00058	mg/L		05/08/20 18:51	05/11/20 12:35	1
Di-n-octyl phthalate	<0.0080		0.0080	0.00084	mg/L		05/08/20 18:51	05/11/20 12:35	1
Fluoranthene	<0.00080		0.00080	0.00036	mg/L		05/08/20 18:51	05/11/20 12:35	1
Fluorene	<0.00080		0.00080	0.00020	mg/L		05/08/20 18:51	05/11/20 12:35	1
Hexachlorobenzene	<0.00040		0.00040	0.000064	mg/L		05/08/20 18:51	05/11/20 12:35	1
Hexachlorobutadiene	<0.0040		0.0040	0.00041	mg/L		05/08/20 18:51	05/11/20 12:35	1
Hexachlorocyclopentadiene	<0.016		0.016	0.0051	mg/L		05/08/20 18:51	05/11/20 12:35	1
Hexachloroethane	<0.0040		0.0040	0.00048	mg/L		05/08/20 18:51	05/11/20 12:35	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Crawford Station Demolition Oversight

Job ID: 500-181748-1

Client Sample ID: CPP-SW03-200507

Lab Sample ID: 500-181748-3

Date Collected: 05/07/20 15:50

Matrix: Water

Date Received: 05/08/20 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016	0.000060	mg/L		05/08/20 18:51	05/11/20 12:35	1
Isophorone	<0.0016		0.0016	0.00030	mg/L		05/08/20 18:51	05/11/20 12:35	1
Naphthalene	<0.00080		0.00080	0.00025	mg/L		05/08/20 18:51	05/11/20 12:35	1
Nitrobenzene	<0.00080		0.00080	0.00036	mg/L		05/08/20 18:51	05/11/20 12:35	1
N-Nitrosodi-n-propylamine	<0.00040		0.00040	0.00012	mg/L		05/08/20 18:51	05/11/20 12:35	1
N-Nitrosodiphenylamine	<0.0016		0.0016	0.00030	mg/L		05/08/20 18:51	05/11/20 12:35	1
Pentachlorophenol	<0.016	* *1	0.016	0.0032	mg/L		05/08/20 18:51	05/11/20 12:35	1
Phenanthrene	<0.00080		0.00080	0.00024	mg/L		05/08/20 18:51	05/11/20 12:35	1
Phenol	<0.0040	*1	0.0040	0.00054	mg/L		05/08/20 18:51	05/11/20 12:35	1
Pyrene	<0.00080		0.00080	0.00034	mg/L		05/08/20 18:51	05/11/20 12:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	60		27 - 110	05/08/20 18:51	05/11/20 12:35	1
Phenol-d5 (Surr)	67		20 - 110	05/08/20 18:51	05/11/20 12:35	1
Nitrobenzene-d5 (Surr)	76		36 - 120	05/08/20 18:51	05/11/20 12:35	1
2-Fluorobiphenyl	85		34 - 110	05/08/20 18:51	05/11/20 12:35	1
2,4,6-Tribromophenol (Surr)	98		40 - 145	05/08/20 18:51	05/11/20 12:35	1
Terphenyl-d14 (Surr)	103		40 - 145	05/08/20 18:51	05/11/20 12:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.00032		0.00032	0.000054	mg/L		05/08/20 13:06	05/08/20 22:11	1
PCB-1221	<0.00032		0.00032	0.00016	mg/L		05/08/20 13:06	05/08/20 22:11	1
PCB-1232	<0.00032		0.00032	0.00016	mg/L		05/08/20 13:06	05/08/20 22:11	1
PCB-1242	<0.00032		0.00032	0.00016	mg/L		05/08/20 13:06	05/08/20 22:11	1
PCB-1248	<0.00032		0.00032	0.00016	mg/L		05/08/20 13:06	05/08/20 22:11	1
PCB-1254	<0.00032		0.00032	0.00016	mg/L		05/08/20 13:06	05/08/20 22:11	1
PCB-1260	<0.00032		0.00032	0.000056	mg/L		05/08/20 13:06	05/08/20 22:11	1
Polychlorinated biphenyls, Total	<0.00032		0.00032	0.00016	mg/L		05/08/20 13:06	05/08/20 22:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	66		30 - 120	05/08/20 13:06	05/08/20 22:11	1
DCB Decachlorobiphenyl	80		30 - 140	05/08/20 13:06	05/08/20 22:11	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.3		0.10	0.025	mg/L		05/08/20 17:56	05/11/20 09:29	1
Antimony	0.0023	J	0.0030	0.0013	mg/L		05/08/20 17:56	05/11/20 09:29	1
Arsenic	0.0021		0.0010	0.00023	mg/L		05/08/20 17:56	05/11/20 09:29	1
Barium	0.066		0.0025	0.00073	mg/L		05/08/20 17:56	05/11/20 09:29	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		05/08/20 17:56	05/11/20 09:29	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		05/08/20 17:56	05/11/20 09:29	1
Calcium	180		0.20	0.044	mg/L		05/08/20 17:56	05/11/20 09:29	1
Chromium	0.0035	J	0.0050	0.0011	mg/L		05/08/20 17:56	05/11/20 09:29	1
Cobalt	0.0011		0.0010	0.00040	mg/L		05/08/20 17:56	05/11/20 09:29	1
Copper	0.0039		0.0020	0.00050	mg/L		05/08/20 17:56	05/11/20 09:29	1
Iron	1.6		0.10	0.047	mg/L		05/08/20 17:56	05/11/20 09:29	1
Lead	0.0031		0.00050	0.00019	mg/L		05/08/20 17:56	05/11/20 09:29	1
Magnesium	30		0.20	0.049	mg/L		05/08/20 17:56	05/11/20 09:29	1
Manganese	0.041		0.0025	0.00079	mg/L		05/08/20 17:56	05/11/20 09:29	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Tetra Tech EM Inc.
 Project/Site: Crawford Station Demolition Oversight

Job ID: 500-181748-1

Client Sample ID: CPP-SW03-200507

Lab Sample ID: 500-181748-3

Date Collected: 05/07/20 15:50

Matrix: Water

Date Received: 05/08/20 09:55

Method: 6020A - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	0.0053		0.0020	0.00063	mg/L		05/08/20 17:56	05/11/20 09:29	1
Potassium	14		0.50	0.11	mg/L		05/08/20 17:56	05/11/20 09:29	1
Selenium	0.0033		0.0025	0.00098	mg/L		05/08/20 17:56	05/11/20 09:29	1
Silver	<0.00050		0.00050	0.00012	mg/L		05/08/20 17:56	05/11/20 09:29	1
Sodium	170		0.20	0.077	mg/L		05/08/20 17:56	05/11/20 09:29	1
Thallium	<0.0020		0.0020	0.00057	mg/L		05/08/20 17:56	05/11/20 09:29	1
Vanadium	0.0067		0.0050	0.0022	mg/L		05/08/20 17:56	05/11/20 09:29	1
Zinc	0.011	J	0.020	0.0069	mg/L		05/08/20 17:56	05/11/20 09:29	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000098	mg/L		05/08/20 10:10	05/11/20 09:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1300	B	10	4.3	mg/L			05/09/20 21:01	1
Total Suspended Solids	32		5.0	1.9	mg/L			05/08/20 12:31	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Crawford Station Demolition Oversight

Job ID: 500-181748-1

Client Sample ID: CPP-SW01-200507-D

Lab Sample ID: 500-181748-4

Date Collected: 05/07/20 15:24

Matrix: Water

Date Received: 05/08/20 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0048	J	0.010	0.0017	mg/L			05/11/20 14:13	1
Benzene	<0.00050		0.00050	0.00015	mg/L			05/11/20 14:13	1
Bromodichloromethane	<0.0010		0.0010	0.00037	mg/L			05/11/20 14:13	1
Bromoform	<0.0010		0.0010	0.00048	mg/L			05/11/20 14:13	1
Bromomethane	<0.0030		0.0030	0.00080	mg/L			05/11/20 14:13	1
Methyl Ethyl Ketone	<0.0050		0.0050	0.0021	mg/L			05/11/20 14:13	1
Carbon disulfide	<0.0020		0.0020	0.00045	mg/L			05/11/20 14:13	1
Carbon tetrachloride	<0.0010		0.0010	0.00038	mg/L			05/11/20 14:13	1
Chlorobenzene	<0.0010		0.0010	0.00039	mg/L			05/11/20 14:13	1
Chloroethane	<0.0010		0.0010	0.00051	mg/L			05/11/20 14:13	1
Chloroform	<0.0020		0.0020	0.00037	mg/L			05/11/20 14:13	1
Chloromethane	<0.0010		0.0010	0.00032	mg/L			05/11/20 14:13	1
cis-1,2-Dichloroethene	<0.0010		0.0010	0.00041	mg/L			05/11/20 14:13	1
cis-1,3-Dichloropropene	<0.0010		0.0010	0.00042	mg/L			05/11/20 14:13	1
Dibromochloromethane	<0.0010		0.0010	0.00049	mg/L			05/11/20 14:13	1
1,1-Dichloroethane	<0.0010		0.0010	0.00041	mg/L			05/11/20 14:13	1
1,1-Dichloroethene	<0.0010		0.0010	0.00039	mg/L			05/11/20 14:13	1
1,2-Dichloropropane	<0.0010		0.0010	0.00043	mg/L			05/11/20 14:13	1
Ethylbenzene	<0.00050		0.00050	0.00018	mg/L			05/11/20 14:13	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/L			05/11/20 14:13	1
Methylene Chloride	<0.0050		0.0050	0.0016	mg/L			05/11/20 14:13	1
methyl isobutyl ketone	<0.0050		0.0050	0.0022	mg/L			05/11/20 14:13	1
Methyl tert-butyl ether	<0.0010		0.0010	0.00039	mg/L			05/11/20 14:13	1
Styrene	<0.0010		0.0010	0.00039	mg/L			05/11/20 14:13	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010	0.00040	mg/L			05/11/20 14:13	1
Tetrachloroethene	<0.0010		0.0010	0.00037	mg/L			05/11/20 14:13	1
Toluene	<0.00050		0.00050	0.00015	mg/L			05/11/20 14:13	1
trans-1,2-Dichloroethene	<0.0010		0.0010	0.00035	mg/L			05/11/20 14:13	1
trans-1,3-Dichloropropene	<0.0010		0.0010	0.00036	mg/L			05/11/20 14:13	1
1,1,1-Trichloroethane	<0.0010		0.0010	0.00038	mg/L			05/11/20 14:13	1
1,1,2-Trichloroethane	<0.0010		0.0010	0.00035	mg/L			05/11/20 14:13	1
Trichloroethene	<0.00050		0.00050	0.00016	mg/L			05/11/20 14:13	1
Vinyl chloride	<0.0010		0.0010	0.00020	mg/L			05/11/20 14:13	1
Xylenes, Total	<0.0010		0.0010	0.00022	mg/L			05/11/20 14:13	1
1,2-Dichloroethane	<0.0010		0.0010	0.00039	mg/L			05/11/20 14:13	1
1,3-Dichloropropene, Total	<0.0010		0.0010	0.00042	mg/L			05/11/20 14:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		72 - 124		05/11/20 14:13	1
Dibromofluoromethane	104		75 - 120		05/11/20 14:13	1
1,2-Dichloroethane-d4 (Surr)	103		75 - 126		05/11/20 14:13	1
Toluene-d8 (Surr)	93		75 - 120		05/11/20 14:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0017		0.0017	0.00020	mg/L		05/08/20 18:51	05/11/20 13:00	1
1,2-Dichlorobenzene	<0.0017		0.0017	0.00021	mg/L		05/08/20 18:51	05/11/20 13:00	1
1,3-Dichlorobenzene	<0.0017		0.0017	0.00018	mg/L		05/08/20 18:51	05/11/20 13:00	1
1,4-Dichlorobenzene	<0.0017		0.0017	0.00018	mg/L		05/08/20 18:51	05/11/20 13:00	1
2,2'-oxybis[1-chloropropane]	<0.0017		0.0017	0.00032	mg/L		05/08/20 18:51	05/11/20 13:00	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Crawford Station Demolition Oversight

Job ID: 500-181748-1

Client Sample ID: CPP-SW01-200507-D

Lab Sample ID: 500-181748-4

Date Collected: 05/07/20 15:24

Matrix: Water

Date Received: 05/08/20 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.0084	**1	0.0084	0.0022	mg/L		05/08/20 18:51	05/11/20 13:00	1
2,4,6-Trichlorophenol	<0.0042	**1	0.0042	0.00060	mg/L		05/08/20 18:51	05/11/20 13:00	1
2,4-Dichlorophenol	<0.0084	**1	0.0084	0.0022	mg/L		05/08/20 18:51	05/11/20 13:00	1
2,4-Dimethylphenol	<0.0084		0.0084	0.0015	mg/L		05/08/20 18:51	05/11/20 13:00	1
2,4-Dinitrophenol	<0.017	**1	0.017	0.0072	mg/L		05/08/20 18:51	05/11/20 13:00	1
2,4-Dinitrotoluene	<0.00084		0.00084	0.00021	mg/L		05/08/20 18:51	05/11/20 13:00	1
2,6-Dinitrotoluene	<0.00084		0.00084	0.000062	mg/L		05/08/20 18:51	05/11/20 13:00	1
2-Chloronaphthalene	<0.0017		0.0017	0.00020	mg/L		05/08/20 18:51	05/11/20 13:00	1
2-Chlorophenol	<0.0042	**1	0.0042	0.00047	mg/L		05/08/20 18:51	05/11/20 13:00	1
2-Methylnaphthalene	<0.0017		0.0017	0.000055	mg/L		05/08/20 18:51	05/11/20 13:00	1
2-Methylphenol	<0.0017		0.0017	0.00026	mg/L		05/08/20 18:51	05/11/20 13:00	1
2-Nitroaniline	<0.0042		0.0042	0.0011	mg/L		05/08/20 18:51	05/11/20 13:00	1
2-Nitrophenol	<0.0084	**1	0.0084	0.0021	mg/L		05/08/20 18:51	05/11/20 13:00	1
3 & 4 Methylphenol	<0.0017		0.0017	0.00038	mg/L		05/08/20 18:51	05/11/20 13:00	1
3,3'-Dichlorobenzidine	<0.0042		0.0042	0.0014	mg/L		05/08/20 18:51	05/11/20 13:00	1
3-Nitroaniline	<0.0084		0.0084	0.0015	mg/L		05/08/20 18:51	05/11/20 13:00	1
4,6-Dinitro-2-methylphenol	<0.017	**1	0.017	0.0050	mg/L		05/08/20 18:51	05/11/20 13:00	1
4-Bromophenyl phenyl ether	<0.0042		0.0042	0.00045	mg/L		05/08/20 18:51	05/11/20 13:00	1
4-Chloro-3-methylphenol	<0.0084		0.0084	0.0019	mg/L		05/08/20 18:51	05/11/20 13:00	1
4-Chloroaniline	<0.0084		0.0084	0.0017	mg/L		05/08/20 18:51	05/11/20 13:00	1
4-Chlorophenyl phenyl ether	<0.0042		0.0042	0.00053	mg/L		05/08/20 18:51	05/11/20 13:00	1
4-Nitroaniline	<0.0084	*1	0.0084	0.0014	mg/L		05/08/20 18:51	05/11/20 13:00	1
4-Nitrophenol	<0.017	**1	0.017	0.0063	mg/L		05/08/20 18:51	05/11/20 13:00	1
Acenaphthene	<0.00084		0.00084	0.00026	mg/L		05/08/20 18:51	05/11/20 13:00	1
Acenaphthylene	<0.00084		0.00084	0.00023	mg/L		05/08/20 18:51	05/11/20 13:00	1
Anthracene	<0.00084		0.00084	0.00028	mg/L		05/08/20 18:51	05/11/20 13:00	1
Benzo[a]anthracene	<0.00014		0.00014	0.000048	mg/L		05/08/20 18:51	05/11/20 13:00	1
Benzo[a]pyrene	<0.00017		0.00017	0.000083	mg/L		05/08/20 18:51	05/11/20 13:00	1
Benzo[b]fluoranthene	<0.00017		0.00017	0.000068	mg/L		05/08/20 18:51	05/11/20 13:00	1
Benzo[g,h,i]perylene	<0.00084		0.00084	0.00032	mg/L		05/08/20 18:51	05/11/20 13:00	1
Benzo[k]fluoranthene	<0.00017		0.00017	0.000054	mg/L		05/08/20 18:51	05/11/20 13:00	1
Bis(2-chloroethoxy)methane	<0.0017		0.0017	0.00024	mg/L		05/08/20 18:51	05/11/20 13:00	1
Bis(2-chloroethyl)ether	<0.0017		0.0017	0.00025	mg/L		05/08/20 18:51	05/11/20 13:00	1
Bis(2-ethylhexyl) phthalate	<0.0084		0.0084	0.0014	mg/L		05/08/20 18:51	05/11/20 13:00	1
Butyl benzyl phthalate	<0.0017		0.0017	0.00040	mg/L		05/08/20 18:51	05/11/20 13:00	1
Carbazole	<0.0042		0.0042	0.00030	mg/L		05/08/20 18:51	05/11/20 13:00	1
Chrysene	<0.00017		0.00017	0.000057	mg/L		05/08/20 18:51	05/11/20 13:00	1
Dibenz(a,h)anthracene	<0.00025		0.00025	0.000043	mg/L		05/08/20 18:51	05/11/20 13:00	1
Dibenzofuran	<0.0017		0.0017	0.00022	mg/L		05/08/20 18:51	05/11/20 13:00	1
Diethyl phthalate	<0.0042		0.0042	0.00030	mg/L		05/08/20 18:51	05/11/20 13:00	1
Dimethyl phthalate	<0.0042		0.0042	0.00026	mg/L		05/08/20 18:51	05/11/20 13:00	1
Di-n-butyl phthalate	<0.0042		0.0042	0.00061	mg/L		05/08/20 18:51	05/11/20 13:00	1
Di-n-octyl phthalate	<0.0084		0.0084	0.00088	mg/L		05/08/20 18:51	05/11/20 13:00	1
Fluoranthene	<0.00084		0.00084	0.00038	mg/L		05/08/20 18:51	05/11/20 13:00	1
Fluorene	<0.00084		0.00084	0.00021	mg/L		05/08/20 18:51	05/11/20 13:00	1
Hexachlorobenzene	<0.00042		0.00042	0.000067	mg/L		05/08/20 18:51	05/11/20 13:00	1
Hexachlorobutadiene	<0.0042		0.0042	0.00043	mg/L		05/08/20 18:51	05/11/20 13:00	1
Hexachlorocyclopentadiene	<0.017		0.017	0.0054	mg/L		05/08/20 18:51	05/11/20 13:00	1
Hexachloroethane	<0.0042		0.0042	0.00050	mg/L		05/08/20 18:51	05/11/20 13:00	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Crawford Station Demolition Oversight

Job ID: 500-181748-1

Client Sample ID: CPP-SW01-200507-D

Lab Sample ID: 500-181748-4

Date Collected: 05/07/20 15:24

Matrix: Water

Date Received: 05/08/20 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.00017		0.00017	0.000063	mg/L		05/08/20 18:51	05/11/20 13:00	1
Isophorone	<0.0017		0.0017	0.00032	mg/L		05/08/20 18:51	05/11/20 13:00	1
Naphthalene	<0.00084		0.00084	0.00026	mg/L		05/08/20 18:51	05/11/20 13:00	1
Nitrobenzene	<0.00084		0.00084	0.00038	mg/L		05/08/20 18:51	05/11/20 13:00	1
N-Nitrosodi-n-propylamine	<0.00042		0.00042	0.00013	mg/L		05/08/20 18:51	05/11/20 13:00	1
N-Nitrosodiphenylamine	<0.0017		0.0017	0.00031	mg/L		05/08/20 18:51	05/11/20 13:00	1
Pentachlorophenol	<0.017	**1	0.017	0.0033	mg/L		05/08/20 18:51	05/11/20 13:00	1
Phenanthrene	<0.00084		0.00084	0.00025	mg/L		05/08/20 18:51	05/11/20 13:00	1
Phenol	<0.0042	*1	0.0042	0.00057	mg/L		05/08/20 18:51	05/11/20 13:00	1
Pyrene	<0.00084		0.00084	0.00036	mg/L		05/08/20 18:51	05/11/20 13:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	61		27 - 110	05/08/20 18:51	05/11/20 13:00	1
Phenol-d5 (Surr)	66		20 - 110	05/08/20 18:51	05/11/20 13:00	1
Nitrobenzene-d5 (Surr)	77		36 - 120	05/08/20 18:51	05/11/20 13:00	1
2-Fluorobiphenyl	88		34 - 110	05/08/20 18:51	05/11/20 13:00	1
2,4,6-Tribromophenol (Surr)	105		40 - 145	05/08/20 18:51	05/11/20 13:00	1
Terphenyl-d14 (Surr)	101		40 - 145	05/08/20 18:51	05/11/20 13:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.00044		0.00044	0.000073	mg/L		05/08/20 13:06	05/08/20 22:27	1
PCB-1221	<0.00044		0.00044	0.00022	mg/L		05/08/20 13:06	05/08/20 22:27	1
PCB-1232	<0.00044		0.00044	0.00022	mg/L		05/08/20 13:06	05/08/20 22:27	1
PCB-1242	<0.00044		0.00044	0.00022	mg/L		05/08/20 13:06	05/08/20 22:27	1
PCB-1248	<0.00044		0.00044	0.00022	mg/L		05/08/20 13:06	05/08/20 22:27	1
PCB-1254	<0.00044		0.00044	0.00022	mg/L		05/08/20 13:06	05/08/20 22:27	1
PCB-1260	<0.00044		0.00044	0.000076	mg/L		05/08/20 13:06	05/08/20 22:27	1
Polychlorinated biphenyls, Total	<0.00044		0.00044	0.00022	mg/L		05/08/20 13:06	05/08/20 22:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	60		30 - 120	05/08/20 13:06	05/08/20 22:27	1
DCB Decachlorobiphenyl	81		30 - 140	05/08/20 13:06	05/08/20 22:27	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.4		0.10	0.025	mg/L		05/08/20 17:56	05/11/20 09:32	1
Antimony	0.0014	J	0.0030	0.0013	mg/L		05/08/20 17:56	05/11/20 09:32	1
Arsenic	0.0023		0.0010	0.00023	mg/L		05/08/20 17:56	05/11/20 09:32	1
Barium	0.050		0.0025	0.00073	mg/L		05/08/20 17:56	05/11/20 09:32	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		05/08/20 17:56	05/11/20 09:32	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		05/08/20 17:56	05/11/20 09:32	1
Calcium	300		1.0	0.22	mg/L		05/08/20 17:56	05/11/20 09:44	5
Chromium	0.0023	J	0.0050	0.0011	mg/L		05/08/20 17:56	05/11/20 09:32	1
Cobalt	0.0018		0.0010	0.00040	mg/L		05/08/20 17:56	05/11/20 09:32	1
Copper	0.0046		0.0020	0.00050	mg/L		05/08/20 17:56	05/11/20 09:32	1
Iron	2.1		0.10	0.047	mg/L		05/08/20 17:56	05/11/20 09:32	1
Lead	0.0026		0.00050	0.00019	mg/L		05/08/20 17:56	05/11/20 09:32	1
Magnesium	69		0.20	0.049	mg/L		05/08/20 17:56	05/11/20 09:32	1
Manganese	0.10		0.0025	0.00079	mg/L		05/08/20 17:56	05/11/20 09:32	1

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Client Sample Results

Client: Tetra Tech EM Inc.
 Project/Site: Crawford Station Demolition Oversight

Job ID: 500-181748-1

Client Sample ID: CPP-SW01-200507-D

Lab Sample ID: 500-181748-4

Date Collected: 05/07/20 15:24

Matrix: Water

Date Received: 05/08/20 09:55

Method: 6020A - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	0.0066		0.0020	0.00063	mg/L		05/08/20 17:56	05/11/20 09:32	1
Potassium	11		0.50	0.11	mg/L		05/08/20 17:56	05/11/20 09:32	1
Selenium	0.0018	J	0.0025	0.00098	mg/L		05/08/20 17:56	05/11/20 09:32	1
Silver	<0.00050		0.00050	0.00012	mg/L		05/08/20 17:56	05/11/20 09:32	1
Sodium	98		0.20	0.077	mg/L		05/08/20 17:56	05/11/20 09:32	1
Thallium	<0.0020		0.0020	0.00057	mg/L		05/08/20 17:56	05/11/20 09:32	1
Vanadium	0.0055		0.0050	0.0022	mg/L		05/08/20 17:56	05/11/20 09:32	1
Zinc	0.013	J	0.020	0.0069	mg/L		05/08/20 17:56	05/11/20 09:32	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000098	mg/L		05/08/20 11:42	05/11/20 09:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1700	B	10	4.3	mg/L			05/09/20 21:03	1
Total Suspended Solids	79		6.7	2.6	mg/L			05/08/20 12:32	1

Definitions/Glossary

Client: Tetra Tech EM Inc.
Project/Site: Crawford Station Demolition Oversight

Job ID: 500-181748-1

Qualifiers

GC/MS VOA

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.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate recovery exceeds control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

QC Association Summary

Client: Tetra Tech EM Inc.
Project/Site: Crawford Station Demolition Oversight

Job ID: 500-181748-1

GC/MS VOA

Analysis Batch: 541848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181748-1	CPP-SW01-200507	Total/NA	Water	8260B	
500-181748-2	CPP-SW02-200507	Total/NA	Water	8260B	
500-181748-3	CPP-SW03-200507	Total/NA	Water	8260B	
500-181748-4	CPP-SW01-200507-D	Total/NA	Water	8260B	
MB 500-541848/6	Method Blank	Total/NA	Water	8260B	
LCS 500-541848/4	Lab Control Sample	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 541754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181748-1	CPP-SW01-200507	Total/NA	Water	3510C	
500-181748-2	CPP-SW02-200507	Total/NA	Water	3510C	
500-181748-3	CPP-SW03-200507	Total/NA	Water	3510C	
500-181748-4	CPP-SW01-200507-D	Total/NA	Water	3510C	
MB 500-541754/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-541754/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-541754/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 541892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181748-1	CPP-SW01-200507	Total/NA	Water	8270D	541754
500-181748-2	CPP-SW02-200507	Total/NA	Water	8270D	541754
500-181748-3	CPP-SW03-200507	Total/NA	Water	8270D	541754
500-181748-4	CPP-SW01-200507-D	Total/NA	Water	8270D	541754

Analysis Batch: 541906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-541754/1-A	Method Blank	Total/NA	Water	8270D	541754
LCS 500-541754/2-A	Lab Control Sample	Total/NA	Water	8270D	541754
LCSD 500-541754/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	541754

GC Semi VOA

Prep Batch: 541708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181748-1	CPP-SW01-200507	Total/NA	Water	3510C	
500-181748-2	CPP-SW02-200507	Total/NA	Water	3510C	
500-181748-3	CPP-SW03-200507	Total/NA	Water	3510C	
500-181748-4	CPP-SW01-200507-D	Total/NA	Water	3510C	
MB 500-541708/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-541708/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-541708/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 541755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181748-1	CPP-SW01-200507	Total/NA	Water	8082A	541708
500-181748-2	CPP-SW02-200507	Total/NA	Water	8082A	541708
500-181748-3	CPP-SW03-200507	Total/NA	Water	8082A	541708
500-181748-4	CPP-SW01-200507-D	Total/NA	Water	8082A	541708
MB 500-541708/1-A	Method Blank	Total/NA	Water	8082A	541708
LCS 500-541708/2-A	Lab Control Sample	Total/NA	Water	8082A	541708

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QC Association Summary

Client: Tetra Tech EM Inc.
Project/Site: Crawford Station Demolition Oversight

Job ID: 500-181748-1

GC Semi VOA (Continued)

Analysis Batch: 541755 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 500-541708/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	541708

Metals

Prep Batch: 541685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181748-1	CPP-SW01-200507	Total/NA	Water	7470A	
500-181748-2	CPP-SW02-200507	Total/NA	Water	7470A	
500-181748-3	CPP-SW03-200507	Total/NA	Water	7470A	
500-181748-4	CPP-SW01-200507-D	Total/NA	Water	7470A	
MB 500-541685/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-541685/13-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 541749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181748-1	CPP-SW01-200507	Total Recoverable	Water	3005A	
500-181748-2	CPP-SW02-200507	Total Recoverable	Water	3005A	
500-181748-3	CPP-SW03-200507	Total Recoverable	Water	3005A	
500-181748-4	CPP-SW01-200507-D	Total Recoverable	Water	3005A	
MB 500-541749/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-541749/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 541924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181748-1	CPP-SW01-200507	Total Recoverable	Water	6020A	541749
500-181748-1	CPP-SW01-200507	Total Recoverable	Water	6020A	541749
500-181748-2	CPP-SW02-200507	Total Recoverable	Water	6020A	541749
500-181748-2	CPP-SW02-200507	Total Recoverable	Water	6020A	541749
500-181748-3	CPP-SW03-200507	Total Recoverable	Water	6020A	541749
500-181748-4	CPP-SW01-200507-D	Total Recoverable	Water	6020A	541749
500-181748-4	CPP-SW01-200507-D	Total Recoverable	Water	6020A	541749
MB 500-541749/1-A	Method Blank	Total Recoverable	Water	6020A	541749
LCS 500-541749/2-A	Lab Control Sample	Total Recoverable	Water	6020A	541749

Analysis Batch: 541926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181748-1	CPP-SW01-200507	Total/NA	Water	7470A	541685
500-181748-2	CPP-SW02-200507	Total/NA	Water	7470A	541685
500-181748-3	CPP-SW03-200507	Total/NA	Water	7470A	541685
500-181748-4	CPP-SW01-200507-D	Total/NA	Water	7470A	541685
MB 500-541685/12-A	Method Blank	Total/NA	Water	7470A	541685
LCS 500-541685/13-A	Lab Control Sample	Total/NA	Water	7470A	541685

General Chemistry

Analysis Batch: 541699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181748-1	CPP-SW01-200507	Total/NA	Water	SM 2540D	
500-181748-2	CPP-SW02-200507	Total/NA	Water	SM 2540D	
500-181748-3	CPP-SW03-200507	Total/NA	Water	SM 2540D	
500-181748-4	CPP-SW01-200507-D	Total/NA	Water	SM 2540D	
MB 500-541699/1	Method Blank	Total/NA	Water	SM 2540D	

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QC Association Summary

Client: Tetra Tech EM Inc.
Project/Site: Crawford Station Demolition Oversight

Job ID: 500-181748-1

General Chemistry (Continued)

Analysis Batch: 541699 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-541699/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 541790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181748-1	CPP-SW01-200507	Total/NA	Water	SM 2540C	
500-181748-2	CPP-SW02-200507	Total/NA	Water	SM 2540C	
500-181748-3	CPP-SW03-200507	Total/NA	Water	SM 2540C	
500-181748-4	CPP-SW01-200507-D	Total/NA	Water	SM 2540C	
MB 500-541790/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-541790/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Surrogate Summary

Client: Tetra Tech EM Inc.
Project/Site: Crawford Station Demolition Oversight

Job ID: 500-181748-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(72-124)	(75-120)	(75-126)	(75-120)
500-181748-1	CPP-SW01-200507	104	103	102	92
500-181748-2	CPP-SW02-200507	102	105	105	92
500-181748-3	CPP-SW03-200507	108	107	104	92
500-181748-4	CPP-SW01-200507-D	110	104	103	93
LCS 500-541848/4	Lab Control Sample	94	95	98	93
MB 500-541848/6	Method Blank	105	102	102	92

Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2FP	PHL	NBZ	FBP	TBP	TPHL
		(27-110)	(20-110)	(36-120)	(34-110)	(40-145)	(40-145)
500-181748-1	CPP-SW01-200507	63	67	79	90	104	99
500-181748-2	CPP-SW02-200507	84	76	91	143 X	137	105
500-181748-3	CPP-SW03-200507	60	67	76	85	98	103
500-181748-4	CPP-SW01-200507-D	61	66	77	88	105	101
LCS 500-541754/2-A	Lab Control Sample	92	73	88	84	104	109
LCSD 500-541754/3-A	Lab Control Sample Dup	10 X	36	93	87	14 X	111
MB 500-541754/1-A	Method Blank	89	55	91	97	90	134

Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1	DCBP1
		(30-120)	(30-140)
500-181748-1	CPP-SW01-200507	64	87
500-181748-2	CPP-SW02-200507	84	71
500-181748-3	CPP-SW03-200507	66	80
500-181748-4	CPP-SW01-200507-D	60	81
LCS 500-541708/2-A	Lab Control Sample	70	93
LCSD 500-541708/3-A	Lab Control Sample Dup	69	95
MB 500-541708/1-A	Method Blank	64	95

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Crawford Station Demolition Oversight

Job ID: 500-181748-1

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

Lab Sample ID: MB 500-541848/6
Matrix: Water
Analysis Batch: 541848

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.010		0.010	0.0017	mg/L			05/11/20 12:20	1
Benzene	<0.00050		0.00050	0.00015	mg/L			05/11/20 12:20	1
Bromodichloromethane	<0.0010		0.0010	0.00037	mg/L			05/11/20 12:20	1
Bromoform	<0.0010		0.0010	0.00048	mg/L			05/11/20 12:20	1
Bromomethane	<0.0030		0.0030	0.00080	mg/L			05/11/20 12:20	1
Methyl Ethyl Ketone	<0.0050		0.0050	0.0021	mg/L			05/11/20 12:20	1
Carbon disulfide	<0.0020		0.0020	0.00045	mg/L			05/11/20 12:20	1
Carbon tetrachloride	<0.0010		0.0010	0.00038	mg/L			05/11/20 12:20	1
Chlorobenzene	<0.0010		0.0010	0.00039	mg/L			05/11/20 12:20	1
Chloroethane	<0.0010		0.0010	0.00051	mg/L			05/11/20 12:20	1
Chloroform	<0.0020		0.0020	0.00037	mg/L			05/11/20 12:20	1
Chloromethane	<0.0010		0.0010	0.00032	mg/L			05/11/20 12:20	1
cis-1,2-Dichloroethene	<0.0010		0.0010	0.00041	mg/L			05/11/20 12:20	1
cis-1,3-Dichloropropene	<0.0010		0.0010	0.00042	mg/L			05/11/20 12:20	1
Dibromochloromethane	<0.0010		0.0010	0.00049	mg/L			05/11/20 12:20	1
1,1-Dichloroethane	<0.0010		0.0010	0.00041	mg/L			05/11/20 12:20	1
1,1-Dichloroethene	<0.0010		0.0010	0.00039	mg/L			05/11/20 12:20	1
1,2-Dichloropropane	<0.0010		0.0010	0.00043	mg/L			05/11/20 12:20	1
Ethylbenzene	<0.00050		0.00050	0.00018	mg/L			05/11/20 12:20	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/L			05/11/20 12:20	1
Methylene Chloride	<0.0050		0.0050	0.0016	mg/L			05/11/20 12:20	1
methyl isobutyl ketone	<0.0050		0.0050	0.0022	mg/L			05/11/20 12:20	1
Methyl tert-butyl ether	<0.0010		0.0010	0.00039	mg/L			05/11/20 12:20	1
Styrene	<0.0010		0.0010	0.00039	mg/L			05/11/20 12:20	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010	0.00040	mg/L			05/11/20 12:20	1
Tetrachloroethene	<0.0010		0.0010	0.00037	mg/L			05/11/20 12:20	1
Toluene	<0.00050		0.00050	0.00015	mg/L			05/11/20 12:20	1
trans-1,2-Dichloroethene	<0.0010		0.0010	0.00035	mg/L			05/11/20 12:20	1
trans-1,3-Dichloropropene	<0.0010		0.0010	0.00036	mg/L			05/11/20 12:20	1
1,1,1-Trichloroethane	<0.0010		0.0010	0.00038	mg/L			05/11/20 12:20	1
1,1,2-Trichloroethane	<0.0010		0.0010	0.00035	mg/L			05/11/20 12:20	1
Trichloroethene	<0.00050		0.00050	0.00016	mg/L			05/11/20 12:20	1
Vinyl chloride	<0.0010		0.0010	0.00020	mg/L			05/11/20 12:20	1
Xylenes, Total	<0.0010		0.0010	0.00022	mg/L			05/11/20 12:20	1
1,2-Dichloroethane	<0.0010		0.0010	0.00039	mg/L			05/11/20 12:20	1
1,3-Dichloropropene, Total	<0.0010		0.0010	0.00042	mg/L			05/11/20 12:20	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	105		72 - 124		05/11/20 12:20	1
Dibromofluoromethane	102		75 - 120		05/11/20 12:20	1
1,2-Dichloroethane-d4 (Surr)	102		75 - 126		05/11/20 12:20	1
Toluene-d8 (Surr)	92		75 - 120		05/11/20 12:20	1

QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Crawford Station Demolition Oversight

Job ID: 500-181748-1

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

Lab Sample ID: LCS 500-541848/4
Matrix: Water
Analysis Batch: 541848

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0426		mg/L		85	40 - 143
Benzene	0.0500	0.0478		mg/L		96	70 - 120
Bromodichloromethane	0.0500	0.0461		mg/L		92	69 - 120
Bromoform	0.0500	0.0463		mg/L		93	56 - 132
Bromomethane	0.0500	0.0364		mg/L		73	40 - 152
Methyl Ethyl Ketone	0.0500	0.0509		mg/L		102	46 - 144
Carbon disulfide	0.0500	0.0400		mg/L		80	66 - 120
Carbon tetrachloride	0.0500	0.0477		mg/L		95	59 - 133
Chlorobenzene	0.0500	0.0488		mg/L		98	70 - 120
Chloroethane	0.0500	0.0375		mg/L		75	48 - 136
Chloroform	0.0500	0.0452		mg/L		90	70 - 120
Chloromethane	0.0500	0.0507		mg/L		101	56 - 152
cis-1,2-Dichloroethene	0.0500	0.0456		mg/L		91	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0495		mg/L		99	64 - 127
Dibromochloromethane	0.0500	0.0501		mg/L		100	68 - 125
1,1-Dichloroethane	0.0500	0.0451		mg/L		90	70 - 125
1,1-Dichloroethene	0.0500	0.0401		mg/L		80	67 - 122
1,2-Dichloropropane	0.0500	0.0479		mg/L		96	67 - 130
Ethylbenzene	0.0500	0.0510		mg/L		102	70 - 123
2-Hexanone	0.0500	0.0483		mg/L		97	54 - 146
Methylene Chloride	0.0500	0.0423		mg/L		85	69 - 125
methyl isobutyl ketone	0.0500	0.0485		mg/L		97	55 - 139
Methyl tert-butyl ether	0.0500	0.0491		mg/L		98	55 - 123
Styrene	0.0500	0.0459		mg/L		92	70 - 120
1,1,2,2-Tetrachloroethane	0.0500	0.0470		mg/L		94	62 - 140
Tetrachloroethene	0.0500	0.0488		mg/L		98	70 - 128
Toluene	0.0500	0.0512		mg/L		102	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0464		mg/L		93	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0456		mg/L		91	62 - 128
1,1,1-Trichloroethane	0.0500	0.0463		mg/L		93	70 - 125
1,1,2-Trichloroethane	0.0500	0.0487		mg/L		97	71 - 130
Trichloroethene	0.0500	0.0480		mg/L		96	70 - 125
Vinyl chloride	0.0500	0.0528		mg/L		106	64 - 126
Xylenes, Total	0.100	0.105		mg/L		105	70 - 125
1,2-Dichloroethane	0.0500	0.0483		mg/L		97	68 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		72 - 124
Dibromofluoromethane	95		75 - 120
1,2-Dichloroethane-d4 (Surr)	98		75 - 126
Toluene-d8 (Surr)	93		75 - 120

QC Sample Results

Client: Tetra Tech EM Inc.
 Project/Site: Crawford Station Demolition Oversight

Job ID: 500-181748-1

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

Lab Sample ID: MB 500-541754/1-A
Matrix: Water
Analysis Batch: 541906

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 541754

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0016		0.0016	0.00019	mg/L		05/08/20 18:51	05/11/20 13:03	1
1,2-Dichlorobenzene	<0.0016		0.0016	0.00020	mg/L		05/08/20 18:51	05/11/20 13:03	1
1,3-Dichlorobenzene	<0.0016		0.0016	0.00017	mg/L		05/08/20 18:51	05/11/20 13:03	1
1,4-Dichlorobenzene	<0.0016		0.0016	0.00017	mg/L		05/08/20 18:51	05/11/20 13:03	1
2,2'-oxybis[1-chloropropane]	<0.0016		0.0016	0.00030	mg/L		05/08/20 18:51	05/11/20 13:03	1
2,4,5-Trichlorophenol	<0.0080		0.0080	0.0021	mg/L		05/08/20 18:51	05/11/20 13:03	1
2,4,6-Trichlorophenol	<0.0040		0.0040	0.00057	mg/L		05/08/20 18:51	05/11/20 13:03	1
2,4-Dichlorophenol	<0.0080		0.0080	0.0021	mg/L		05/08/20 18:51	05/11/20 13:03	1
2,4-Dimethylphenol	<0.0080		0.0080	0.0014	mg/L		05/08/20 18:51	05/11/20 13:03	1
2,4-Dinitrophenol	<0.016		0.016	0.0069	mg/L		05/08/20 18:51	05/11/20 13:03	1
2,4-Dinitrotoluene	<0.00080		0.00080	0.00020	mg/L		05/08/20 18:51	05/11/20 13:03	1
2,6-Dinitrotoluene	<0.00080		0.00080	0.00059	mg/L		05/08/20 18:51	05/11/20 13:03	1
2-Chloronaphthalene	<0.0016		0.0016	0.00019	mg/L		05/08/20 18:51	05/11/20 13:03	1
2-Chlorophenol	<0.0040		0.0040	0.00045	mg/L		05/08/20 18:51	05/11/20 13:03	1
2-Methylnaphthalene	<0.0016		0.0016	0.000052	mg/L		05/08/20 18:51	05/11/20 13:03	1
2-Methylphenol	<0.0016		0.0016	0.00024	mg/L		05/08/20 18:51	05/11/20 13:03	1
2-Nitroaniline	<0.0040		0.0040	0.0010	mg/L		05/08/20 18:51	05/11/20 13:03	1
2-Nitrophenol	<0.0080		0.0080	0.0020	mg/L		05/08/20 18:51	05/11/20 13:03	1
3 & 4 Methylphenol	<0.0016		0.0016	0.00036	mg/L		05/08/20 18:51	05/11/20 13:03	1
3,3'-Dichlorobenzidine	<0.0040		0.0040	0.0014	mg/L		05/08/20 18:51	05/11/20 13:03	1
3-Nitroaniline	<0.0080		0.0080	0.0014	mg/L		05/08/20 18:51	05/11/20 13:03	1
4,6-Dinitro-2-methylphenol	<0.016		0.016	0.0047	mg/L		05/08/20 18:51	05/11/20 13:03	1
4-Bromophenyl phenyl ether	<0.0040		0.0040	0.00043	mg/L		05/08/20 18:51	05/11/20 13:03	1
4-Chloro-3-methylphenol	<0.0080		0.0080	0.0018	mg/L		05/08/20 18:51	05/11/20 13:03	1
4-Chloroaniline	<0.0080		0.0080	0.0016	mg/L		05/08/20 18:51	05/11/20 13:03	1
4-Chlorophenyl phenyl ether	<0.0040		0.0040	0.00051	mg/L		05/08/20 18:51	05/11/20 13:03	1
4-Nitroaniline	<0.0080		0.0080	0.0013	mg/L		05/08/20 18:51	05/11/20 13:03	1
4-Nitrophenol	<0.016		0.016	0.0059	mg/L		05/08/20 18:51	05/11/20 13:03	1
Acenaphthene	<0.00080		0.00080	0.00025	mg/L		05/08/20 18:51	05/11/20 13:03	1
Acenaphthylene	<0.00080		0.00080	0.00021	mg/L		05/08/20 18:51	05/11/20 13:03	1
Anthracene	<0.00080		0.00080	0.00027	mg/L		05/08/20 18:51	05/11/20 13:03	1
Benzo[a]anthracene	<0.00013		0.00013	0.000045	mg/L		05/08/20 18:51	05/11/20 13:03	1
Benzo[a]pyrene	<0.00016		0.00016	0.000079	mg/L		05/08/20 18:51	05/11/20 13:03	1
Benzo[b]fluoranthene	<0.00016		0.00016	0.000065	mg/L		05/08/20 18:51	05/11/20 13:03	1
Benzo[g,h,i]perylene	<0.00080		0.00080	0.00030	mg/L		05/08/20 18:51	05/11/20 13:03	1
Benzo[k]fluoranthene	<0.00016		0.00016	0.000051	mg/L		05/08/20 18:51	05/11/20 13:03	1
Bis(2-chloroethoxy)methane	<0.0016		0.0016	0.00023	mg/L		05/08/20 18:51	05/11/20 13:03	1
Bis(2-chloroethyl)ether	<0.0016		0.0016	0.00023	mg/L		05/08/20 18:51	05/11/20 13:03	1
Bis(2-ethylhexyl) phthalate	<0.0080		0.0080	0.0014	mg/L		05/08/20 18:51	05/11/20 13:03	1
Butyl benzyl phthalate	<0.0016		0.0016	0.00038	mg/L		05/08/20 18:51	05/11/20 13:03	1
Carbazole	<0.0040		0.0040	0.00028	mg/L		05/08/20 18:51	05/11/20 13:03	1
Chrysene	<0.00016		0.00016	0.000055	mg/L		05/08/20 18:51	05/11/20 13:03	1
Dibenz(a,h)anthracene	<0.00024		0.00024	0.000041	mg/L		05/08/20 18:51	05/11/20 13:03	1
Dibenzofuran	<0.0016		0.0016	0.00021	mg/L		05/08/20 18:51	05/11/20 13:03	1
Diethyl phthalate	<0.0040		0.0040	0.00029	mg/L		05/08/20 18:51	05/11/20 13:03	1
Dimethyl phthalate	<0.0040		0.0040	0.00025	mg/L		05/08/20 18:51	05/11/20 13:03	1
Di-n-butyl phthalate	<0.0040		0.0040	0.00058	mg/L		05/08/20 18:51	05/11/20 13:03	1
Di-n-octyl phthalate	<0.0080		0.0080	0.00084	mg/L		05/08/20 18:51	05/11/20 13:03	1

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QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Crawford Station Demolition Oversight

Job ID: 500-181748-1

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

Lab Sample ID: MB 500-541754/1-A
Matrix: Water
Analysis Batch: 541906

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 541754

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Fluoranthene	<0.00080		0.00080	0.00036	mg/L		05/08/20 18:51	05/11/20 13:03	1
Fluorene	<0.00080		0.00080	0.00020	mg/L		05/08/20 18:51	05/11/20 13:03	1
Hexachlorobenzene	<0.00040		0.00040	0.000064	mg/L		05/08/20 18:51	05/11/20 13:03	1
Hexachlorobutadiene	<0.0040		0.0040	0.00041	mg/L		05/08/20 18:51	05/11/20 13:03	1
Hexachlorocyclopentadiene	<0.016		0.016	0.0051	mg/L		05/08/20 18:51	05/11/20 13:03	1
Hexachloroethane	<0.0040		0.0040	0.00048	mg/L		05/08/20 18:51	05/11/20 13:03	1
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016	0.000060	mg/L		05/08/20 18:51	05/11/20 13:03	1
Isophorone	<0.0016		0.0016	0.00030	mg/L		05/08/20 18:51	05/11/20 13:03	1
Naphthalene	<0.00080		0.00080	0.00025	mg/L		05/08/20 18:51	05/11/20 13:03	1
Nitrobenzene	<0.00080		0.00080	0.00036	mg/L		05/08/20 18:51	05/11/20 13:03	1
N-Nitrosodi-n-propylamine	<0.00040		0.00040	0.00012	mg/L		05/08/20 18:51	05/11/20 13:03	1
N-Nitrosodiphenylamine	<0.0016		0.0016	0.00030	mg/L		05/08/20 18:51	05/11/20 13:03	1
Pentachlorophenol	<0.016		0.016	0.0032	mg/L		05/08/20 18:51	05/11/20 13:03	1
Phenanthrene	<0.00080		0.00080	0.00024	mg/L		05/08/20 18:51	05/11/20 13:03	1
Phenol	<0.0040		0.0040	0.00054	mg/L		05/08/20 18:51	05/11/20 13:03	1
Pyrene	<0.00080		0.00080	0.00034	mg/L		05/08/20 18:51	05/11/20 13:03	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorophenol (Surr)	89		27 - 110	05/08/20 18:51	05/11/20 13:03	1
Phenol-d5 (Surr)	55		20 - 110	05/08/20 18:51	05/11/20 13:03	1
Nitrobenzene-d5 (Surr)	91		36 - 120	05/08/20 18:51	05/11/20 13:03	1
2-Fluorobiphenyl	97		34 - 110	05/08/20 18:51	05/11/20 13:03	1
2,4,6-Tribromophenol (Surr)	90		40 - 145	05/08/20 18:51	05/11/20 13:03	1
Terphenyl-d14 (Surr)	134		40 - 145	05/08/20 18:51	05/11/20 13:03	1

Lab Sample ID: LCS 500-541754/2-A
Matrix: Water
Analysis Batch: 541906

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 541754

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,2-Dichlorobenzene	0.0320	0.0203		mg/L		63	26 - 110
1,3-Dichlorobenzene	0.0320	0.0195		mg/L		61	22 - 110
1,4-Dichlorobenzene	0.0320	0.0195		mg/L		61	23 - 110
2,2'-oxybis[1-chloropropane]	0.0320	0.0385		mg/L		120	38 - 140
2,4,5-Trichlorophenol	0.0320	0.0325		mg/L		101	63 - 124
2,4,6-Trichlorophenol	0.0320	0.0317		mg/L		99	62 - 121
2,4-Dichlorophenol	0.0320	0.0317		mg/L		99	58 - 120
2,4-Dimethylphenol	0.0320	0.0297		mg/L		93	51 - 115
2,4-Dinitrophenol	0.0640	0.0540		mg/L		84	37 - 130
2,4-Dinitrotoluene	0.0320	0.0358		mg/L		112	63 - 129
2,6-Dinitrotoluene	0.0320	0.0362		mg/L		113	63 - 129
2-Chloronaphthalene	0.0320	0.0246		mg/L		77	39 - 110
2-Chlorophenol	0.0320	0.0277		mg/L		86	59 - 110
2-Methylnaphthalene	0.0320	0.0228		mg/L		71	34 - 110
2-Methylphenol	0.0320	0.0297		mg/L		93	53 - 115
2-Nitroaniline	0.0320	0.0364		mg/L		114	59 - 138
2-Nitrophenol	0.0320	0.0301		mg/L		94	59 - 115

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QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Crawford Station Demolition Oversight

Job ID: 500-181748-1

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

Lab Sample ID: LCS 500-541754/2-A

Matrix: Water

Analysis Batch: 541906

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 541754

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
3 & 4 Methylphenol	0.0320	0.0284		mg/L		89	50 - 116
3,3'-Dichlorobenzidine	0.0320	0.0349		mg/L		109	60 - 132
3-Nitroaniline	0.0320	0.0243		mg/L		76	47 - 123
4,6-Dinitro-2-methylphenol	0.0640	0.0786		mg/L		123	50 - 129
4-Bromophenyl phenyl ether	0.0320	0.0338		mg/L		106	58 - 120
4-Chloro-3-methylphenol	0.0320	0.0332		mg/L		104	64 - 128
4-Chloroaniline	0.0320	0.0289		mg/L		90	35 - 128
4-Chlorophenyl phenyl ether	0.0320	0.0295		mg/L		92	48 - 116
4-Nitroaniline	0.0320	0.0238		mg/L		74	35 - 110
4-Nitrophenol	0.0640	0.0458		mg/L		72	20 - 110
Acenaphthene	0.0320	0.0271		mg/L		85	46 - 110
Acenaphthylene	0.0320	0.0260		mg/L		81	47 - 113
Anthracene	0.0320	0.0297		mg/L		93	67 - 118
Benzo[a]anthracene	0.0320	0.0353		mg/L		110	70 - 126
Benzo[a]pyrene	0.0320	0.0354		mg/L		111	70 - 135
Benzo[b]fluoranthene	0.0320	0.0342		mg/L		107	69 - 136
Benzo[g,h,i]perylene	0.0320	0.0372		mg/L		116	70 - 135
Benzo[k]fluoranthene	0.0320	0.0346		mg/L		108	70 - 133
Bis(2-chloroethoxy)methane	0.0320	0.0305		mg/L		95	59 - 118
Bis(2-chloroethyl)ether	0.0320	0.0260		mg/L		81	54 - 112
Bis(2-ethylhexyl) phthalate	0.0320	0.0355		mg/L		111	69 - 136
Butyl benzyl phthalate	0.0320	0.0344		mg/L		107	68 - 135
Carbazole	0.0320	0.0311		mg/L		97	61 - 145
Chrysene	0.0320	0.0326		mg/L		102	68 - 129
Dibenz(a,h)anthracene	0.0320	0.0352		mg/L		110	70 - 134
Dibenzofuran	0.0320	0.0268		mg/L		84	51 - 110
Diethyl phthalate	0.0320	0.0317		mg/L		99	62 - 123
Dimethyl phthalate	0.0320	0.0324		mg/L		101	63 - 122
Di-n-butyl phthalate	0.0320	0.0306		mg/L		96	69 - 129
Di-n-octyl phthalate	0.0320	0.0378		mg/L		118	68 - 137
Fluoranthene	0.0320	0.0336		mg/L		105	68 - 126
Fluorene	0.0320	0.0287		mg/L		90	53 - 120
Hexachlorobenzene	0.0320	0.0373		mg/L		117	61 - 126
Hexachlorobutadiene	0.0320	0.0197		mg/L		62	20 - 100
Hexachlorocyclopentadiene	0.0320	0.00826	J	mg/L		26	10 - 105
Hexachloroethane	0.0320	0.0174		mg/L		54	20 - 100
Indeno[1,2,3-cd]pyrene	0.0320	0.0346		mg/L		108	65 - 133
Isophorone	0.0320	0.0300		mg/L		94	54 - 127
Naphthalene	0.0320	0.0223		mg/L		70	36 - 110
Nitrobenzene	0.0320	0.0282		mg/L		88	54 - 121
N-Nitrosodi-n-propylamine	0.0320	0.0267		mg/L		83	47 - 131
N-Nitrosodiphenylamine	0.0320	0.0338		mg/L		106	66 - 120
Pentachlorophenol	0.0640	0.0619		mg/L		97	42 - 148
Phenanthrene	0.0320	0.0301		mg/L		94	65 - 120
Phenol	0.0320	0.0237		mg/L		74	33 - 100
Pyrene	0.0320	0.0300		mg/L		94	70 - 126

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QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Crawford Station Demolition Oversight

Job ID: 500-181748-1

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

Lab Sample ID: LCS 500-541754/2-A
Matrix: Water
Analysis Batch: 541906

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 541754

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol (Surr)	92		27 - 110
Phenol-d5 (Surr)	73		20 - 110
Nitrobenzene-d5 (Surr)	88		36 - 120
2-Fluorobiphenyl	84		34 - 110
2,4,6-Tribromophenol (Surr)	104		40 - 145
Terphenyl-d14 (Surr)	109		40 - 145

Lab Sample ID: LCSD 500-541754/3-A
Matrix: Water
Analysis Batch: 541906

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 541754

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	0.0320	0.0237		mg/L		74	26 - 110	12	20
1,2-Dichlorobenzene	0.0320	0.0230		mg/L		72	26 - 110	13	20
1,3-Dichlorobenzene	0.0320	0.0222		mg/L		69	22 - 110	13	20
1,4-Dichlorobenzene	0.0320	0.0225		mg/L		70	23 - 110	14	20
2,2'-oxybis[1-chloropropane]	0.0320	0.0407		mg/L		127	38 - 140	6	20
2,4,5-Trichlorophenol	0.0320	0.00307	J **1	mg/L		10	63 - 124	165	20
2,4,6-Trichlorophenol	0.0320	0.00152	J **1	mg/L		5	62 - 121	182	20
2,4-Dichlorophenol	0.0320	0.00715	J **1	mg/L		22	58 - 120	126	20
2,4-Dimethylphenol	0.0320	0.0304		mg/L		95	51 - 115	2	20
2,4-Dinitrophenol	0.0640	<0.016	**1	mg/L		9	37 - 130	160	20
2,4-Dinitrotoluene	0.0320	0.0362		mg/L		113	63 - 129	1	20
2,6-Dinitrotoluene	0.0320	0.0358		mg/L		112	63 - 129	1	20
2-Chloronaphthalene	0.0320	0.0255		mg/L		80	39 - 110	4	20
2-Chlorophenol	0.0320	0.00843	**1	mg/L		26	59 - 110	107	20
2-Methylnaphthalene	0.0320	0.0243		mg/L		76	34 - 110	6	20
2-Methylphenol	0.0320	0.0279		mg/L		87	53 - 115	6	20
2-Nitroaniline	0.0320	0.0370		mg/L		116	59 - 138	1	20
2-Nitrophenol	0.0320	0.00252	J **1	mg/L		8	59 - 115	169	20
3 & 4 Methylphenol	0.0320	0.0247		mg/L		77	50 - 116	14	20
3,3'-Dichlorobenzidine	0.0320	0.0382		mg/L		119	60 - 132	9	20
3-Nitroaniline	0.0320	0.0263		mg/L		82	47 - 123	8	20
4,6-Dinitro-2-methylphenol	0.0640	<0.016	**1	mg/L		0	50 - 129	200	20
4-Bromophenyl phenyl ether	0.0320	0.0332		mg/L		104	58 - 120	2	20
4-Chloro-3-methylphenol	0.0320	0.0272		mg/L		85	64 - 128	20	20
4-Chloroaniline	0.0320	0.0308		mg/L		96	35 - 128	6	20
4-Chlorophenyl phenyl ether	0.0320	0.0294		mg/L		92	48 - 116	1	20
4-Nitroaniline	0.0320	0.0297	*1	mg/L		93	35 - 110	22	20
4-Nitrophenol	0.0640	<0.016	**1	mg/L		0	20 - 110	200	20
Acenaphthene	0.0320	0.0276		mg/L		86	46 - 110	2	20
Acenaphthylene	0.0320	0.0269		mg/L		84	47 - 113	3	20
Anthracene	0.0320	0.0307		mg/L		96	67 - 118	3	20
Benzo[a]anthracene	0.0320	0.0358		mg/L		112	70 - 126	1	20
Benzo[a]pyrene	0.0320	0.0359		mg/L		112	70 - 135	1	20
Benzo[b]fluoranthene	0.0320	0.0355		mg/L		111	69 - 136	4	20
Benzo[g,h,i]perylene	0.0320	0.0374		mg/L		117	70 - 135	1	20
Benzo[k]fluoranthene	0.0320	0.0348		mg/L		109	70 - 133	1	20

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QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Crawford Station Demolition Oversight

Job ID: 500-181748-1

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

Lab Sample ID: LCSD 500-541754/3-A
Matrix: Water
Analysis Batch: 541906

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 541754

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bis(2-chloroethoxy)methane	0.0320	0.0315		mg/L		99	59 - 118	3	20
Bis(2-chloroethyl)ether	0.0320	0.0274		mg/L		86	54 - 112	5	20
Bis(2-ethylhexyl) phthalate	0.0320	0.0358		mg/L		112	69 - 136	1	20
Butyl benzyl phthalate	0.0320	0.0349		mg/L		109	68 - 135	2	20
Carbazole	0.0320	0.0344		mg/L		107	61 - 145	10	20
Chrysene	0.0320	0.0335		mg/L		105	68 - 129	3	20
Dibenz(a,h)anthracene	0.0320	0.0355		mg/L		111	70 - 134	1	20
Dibenzofuran	0.0320	0.0273		mg/L		85	51 - 110	2	20
Diethyl phthalate	0.0320	0.0328		mg/L		103	62 - 123	3	20
Dimethyl phthalate	0.0320	0.0321		mg/L		100	63 - 122	1	20
Di-n-butyl phthalate	0.0320	0.0312		mg/L		98	69 - 129	2	20
Di-n-octyl phthalate	0.0320	0.0377		mg/L		118	68 - 137	0	20
Fluoranthene	0.0320	0.0342		mg/L		107	68 - 126	2	20
Fluorene	0.0320	0.0293		mg/L		92	53 - 120	2	20
Hexachlorobenzene	0.0320	0.0374		mg/L		117	61 - 126	0	20
Hexachlorobutadiene	0.0320	0.0225		mg/L		70	20 - 100	13	20
Hexachlorocyclopentadiene	0.0320	0.00846	J	mg/L		26	10 - 105	2	20
Hexachloroethane	0.0320	0.0200		mg/L		63	20 - 100	14	20
Indeno[1,2,3-cd]pyrene	0.0320	0.0353		mg/L		110	65 - 133	2	20
Isophorone	0.0320	0.0306		mg/L		96	54 - 127	2	20
Naphthalene	0.0320	0.0242		mg/L		76	36 - 110	8	20
Nitrobenzene	0.0320	0.0300		mg/L		94	54 - 121	6	20
N-Nitrosodi-n-propylamine	0.0320	0.0279		mg/L		87	47 - 131	5	20
N-Nitrosodiphenylamine	0.0320	0.0344		mg/L		107	66 - 120	2	20
Pentachlorophenol	0.0640	<0.016	* *1	mg/L		0	42 - 148	200	20
Phenanthrene	0.0320	0.0303		mg/L		95	65 - 120	1	20
Phenol	0.0320	0.0133	*1	mg/L		42	33 - 100	56	20
Pyrene	0.0320	0.0318		mg/L		99	70 - 126	6	20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
2-Fluorophenol (Surr)	10	X	27 - 110
Phenol-d5 (Surr)	36		20 - 110
Nitrobenzene-d5 (Surr)	93		36 - 120
2-Fluorobiphenyl	87		34 - 110
2,4,6-Tribromophenol (Surr)	14	X	40 - 145
Terphenyl-d14 (Surr)	111		40 - 145

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

Lab Sample ID: MB 500-541708/1-A
Matrix: Water
Analysis Batch: 541755

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 541708

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	<0.00040		0.00040	0.000067	mg/L		05/08/20 13:06	05/08/20 20:20	1
PCB-1221	<0.00040		0.00040	0.00020	mg/L		05/08/20 13:06	05/08/20 20:20	1
PCB-1232	<0.00040		0.00040	0.00020	mg/L		05/08/20 13:06	05/08/20 20:20	1
PCB-1242	<0.00040		0.00040	0.00020	mg/L		05/08/20 13:06	05/08/20 20:20	1
PCB-1248	<0.00040		0.00040	0.00020	mg/L		05/08/20 13:06	05/08/20 20:20	1

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QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Crawford Station Demolition Oversight

Job ID: 500-181748-1

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

Lab Sample ID: MB 500-541708/1-A
Matrix: Water
Analysis Batch: 541755

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 541708

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254	<0.00040		0.00040	0.00020	mg/L		05/08/20 13:06	05/08/20 20:20	1
PCB-1260	<0.00040		0.00040	0.000070	mg/L		05/08/20 13:06	05/08/20 20:20	1
Polychlorinated biphenyls, Total	<0.00040		0.00040	0.00020	mg/L		05/08/20 13:06	05/08/20 20:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	64		30 - 120	05/08/20 13:06	05/08/20 20:20	1
DCB Decachlorobiphenyl	95		30 - 140	05/08/20 13:06	05/08/20 20:20	1

Lab Sample ID: LCS 500-541708/2-A
Matrix: Water
Analysis Batch: 541755

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 541708

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
PCB-1016	0.00400	0.00345		mg/L		86	56 - 120
PCB-1260	0.00400	0.00391		mg/L		98	53 - 137

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	70		30 - 120
DCB Decachlorobiphenyl	93		30 - 140

Lab Sample ID: LCSD 500-541708/3-A
Matrix: Water
Analysis Batch: 541755

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 541708

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
PCB-1016	0.00400	0.00344		mg/L		86	56 - 120	0	20
PCB-1260	0.00400	0.00383		mg/L		96	53 - 137	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	69		30 - 120
DCB Decachlorobiphenyl	95		30 - 140

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-541749/1-A
Matrix: Water
Analysis Batch: 541924

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 541749

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.10		0.10	0.025	mg/L		05/08/20 17:56	05/11/20 09:10	1
Antimony	<0.0030		0.0030	0.0013	mg/L		05/08/20 17:56	05/11/20 09:10	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		05/08/20 17:56	05/11/20 09:10	1
Barium	<0.0025		0.0025	0.00073	mg/L		05/08/20 17:56	05/11/20 09:10	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		05/08/20 17:56	05/11/20 09:10	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		05/08/20 17:56	05/11/20 09:10	1
Calcium	<0.20		0.20	0.044	mg/L		05/08/20 17:56	05/11/20 09:10	1
Chromium	<0.0050		0.0050	0.0011	mg/L		05/08/20 17:56	05/11/20 09:10	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		05/08/20 17:56	05/11/20 09:10	1

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QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Crawford Station Demolition Oversight

Job ID: 500-181748-1

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

Lab Sample ID: MB 500-541749/1-A
Matrix: Water
Analysis Batch: 541924

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 541749

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<0.0020		0.0020	0.00050	mg/L		05/08/20 17:56	05/11/20 09:10	1
Iron	<0.10		0.10	0.047	mg/L		05/08/20 17:56	05/11/20 09:10	1
Lead	<0.00050		0.00050	0.00019	mg/L		05/08/20 17:56	05/11/20 09:10	1
Magnesium	<0.20		0.20	0.049	mg/L		05/08/20 17:56	05/11/20 09:10	1
Manganese	<0.0025		0.0025	0.00079	mg/L		05/08/20 17:56	05/11/20 09:10	1
Nickel	<0.0020		0.0020	0.00063	mg/L		05/08/20 17:56	05/11/20 09:10	1
Potassium	<0.50		0.50	0.11	mg/L		05/08/20 17:56	05/11/20 09:10	1
Selenium	<0.0025		0.0025	0.00098	mg/L		05/08/20 17:56	05/11/20 09:10	1
Silver	<0.00050		0.00050	0.00012	mg/L		05/08/20 17:56	05/11/20 09:10	1
Sodium	<0.20		0.20	0.077	mg/L		05/08/20 17:56	05/11/20 09:10	1
Thallium	<0.0020		0.0020	0.00057	mg/L		05/08/20 17:56	05/11/20 09:10	1
Vanadium	<0.0050		0.0050	0.0022	mg/L		05/08/20 17:56	05/11/20 09:10	1
Zinc	<0.020		0.020	0.0069	mg/L		05/08/20 17:56	05/11/20 09:10	1

Lab Sample ID: LCS 500-541749/2-A
Matrix: Water
Analysis Batch: 541924

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 541749

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	2.00	2.04		mg/L		102	80 - 120
Antimony	0.500	0.532		mg/L		106	80 - 120
Arsenic	0.100	0.0968		mg/L		97	80 - 120
Barium	0.500	0.509		mg/L		102	80 - 120
Beryllium	0.0500	0.0488		mg/L		98	80 - 120
Cadmium	0.0500	0.0491		mg/L		98	80 - 120
Calcium	10.0	10.2		mg/L		102	80 - 120
Chromium	0.200	0.206		mg/L		103	80 - 120
Cobalt	0.500	0.506		mg/L		101	80 - 120
Copper	0.250	0.261		mg/L		104	80 - 120
Iron	1.00	1.04		mg/L		104	80 - 120
Lead	0.100	0.103		mg/L		103	80 - 120
Magnesium	10.0	10.3		mg/L		103	80 - 120
Manganese	0.500	0.515		mg/L		103	80 - 120
Nickel	0.500	0.521		mg/L		104	80 - 120
Potassium	10.0	10.2		mg/L		102	80 - 120
Selenium	0.100	0.0998		mg/L		100	80 - 120
Silver	0.0500	0.0498		mg/L		100	80 - 120
Sodium	10.0	10.1		mg/L		101	80 - 120
Thallium	0.100	0.102		mg/L		102	80 - 120
Vanadium	0.500	0.500		mg/L		100	80 - 120
Zinc	0.500	0.519		mg/L		104	80 - 120

QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Crawford Station Demolition Oversight

Job ID: 500-181748-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-541685/12-A
Matrix: Water
Analysis Batch: 541926

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 541685

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000098	mg/L		05/08/20 10:10	05/11/20 08:43	1

Lab Sample ID: LCS 500-541685/13-A
Matrix: Water
Analysis Batch: 541926

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 541685
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00202		mg/L		101	80 - 120

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-541790/1
Matrix: Water
Analysis Batch: 541790

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	6.00	J	10	4.3	mg/L			05/09/20 20:51	1

Lab Sample ID: LCS 500-541790/2
Matrix: Water
Analysis Batch: 541790

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Dissolved Solids	250	280		mg/L		112	80 - 120

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 500-541699/1
Matrix: Water
Analysis Batch: 541699

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.0		5.0	1.9	mg/L			05/08/20 12:05	1

Lab Sample ID: LCS 500-541699/2
Matrix: Water
Analysis Batch: 541699

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Suspended Solids	200	184		mg/L		92	80 - 120

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Crawford Station Demolition Oversight

Job ID: 500-181748-1

Client Sample ID: CPP-SW01-200507

Lab Sample ID: 500-181748-1

Date Collected: 05/07/20 15:24

Matrix: Water

Date Received: 05/08/20 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	541848	05/11/20 12:48	PMF	TAL CHI
Total/NA	Prep	3510C			541754	05/08/20 18:51	JP1	TAL CHI
Total/NA	Analysis	8270D		1	541892	05/11/20 12:10	AJD	TAL CHI
Total/NA	Prep	3510C			541708	05/08/20 13:06	DAK	TAL CHI
Total/NA	Analysis	8082A		1	541755	05/08/20 21:39	BJH	TAL CHI
Total Recoverable	Prep	3005A			541749	05/08/20 17:56	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	541924	05/11/20 09:18	FXG	TAL CHI
Total Recoverable	Prep	3005A			541749	05/08/20 17:56	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	541924	05/11/20 09:36	FXG	TAL CHI
Total/NA	Prep	7470A			541685	05/08/20 10:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	541926	05/11/20 09:13	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	541790	05/09/20 20:56	CLB	TAL CHI
Total/NA	Analysis	SM 2540D		1	541699		SMO	TAL CHI
					(Start)	05/08/20 12:29		
					(End)	05/08/20 12:30		

Client Sample ID: CPP-SW02-200507

Lab Sample ID: 500-181748-2

Date Collected: 05/07/20 15:46

Matrix: Water

Date Received: 05/08/20 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	541848	05/11/20 13:17	PMF	TAL CHI
Total/NA	Prep	3510C			541754	05/08/20 18:51	JP1	TAL CHI
Total/NA	Analysis	8270D		5	541892	05/11/20 13:25	AJD	TAL CHI
Total/NA	Prep	3510C			541708	05/08/20 13:06	DAK	TAL CHI
Total/NA	Analysis	8082A		1	541755	05/08/20 21:55	BJH	TAL CHI
Total Recoverable	Prep	3005A			541749	05/08/20 17:56	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	541924	05/11/20 09:21	FXG	TAL CHI
Total Recoverable	Prep	3005A			541749	05/08/20 17:56	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	541924	05/11/20 09:25	FXG	TAL CHI
Total/NA	Prep	7470A			541685	05/08/20 10:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	541926	05/11/20 09:14	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	541790	05/09/20 20:58	CLB	TAL CHI
Total/NA	Analysis	SM 2540D		1	541699		SMO	TAL CHI
					(Start)	05/08/20 12:30		
					(End)	05/08/20 12:31		

Client Sample ID: CPP-SW03-200507

Lab Sample ID: 500-181748-3

Date Collected: 05/07/20 15:50

Matrix: Water

Date Received: 05/08/20 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	541848	05/11/20 13:45	PMF	TAL CHI
Total/NA	Prep	3510C			541754	05/08/20 18:51	JP1	TAL CHI
Total/NA	Analysis	8270D		1	541892	05/11/20 12:35	AJD	TAL CHI

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Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Crawford Station Demolition Oversight

Job ID: 500-181748-1

Client Sample ID: CPP-SW03-200507

Lab Sample ID: 500-181748-3

Date Collected: 05/07/20 15:50

Matrix: Water

Date Received: 05/08/20 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			541708	05/08/20 13:06	DAK	TAL CHI
Total/NA	Analysis	8082A		1	541755	05/08/20 22:11	BJH	TAL CHI
Total Recoverable	Prep	3005A			541749	05/08/20 17:56	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	541924	05/11/20 09:29	FXG	TAL CHI
Total/NA	Prep	7470A			541685	05/08/20 10:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	541926	05/11/20 09:16	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	541790	05/09/20 21:01	CLB	TAL CHI
Total/NA	Analysis	SM 2540D		1	541699		SMO	TAL CHI
					(Start)	05/08/20 12:31		
					(End)	05/08/20 12:32		

Client Sample ID: CPP-SW01-200507-D

Lab Sample ID: 500-181748-4

Date Collected: 05/07/20 15:24

Matrix: Water

Date Received: 05/08/20 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	541848	05/11/20 14:13	PMF	TAL CHI
Total/NA	Prep	3510C			541754	05/08/20 18:51	JP1	TAL CHI
Total/NA	Analysis	8270D		1	541892	05/11/20 13:00	AJD	TAL CHI
Total/NA	Prep	3510C			541708	05/08/20 13:06	DAK	TAL CHI
Total/NA	Analysis	8082A		1	541755	05/08/20 22:27	BJH	TAL CHI
Total Recoverable	Prep	3005A			541749	05/08/20 17:56	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	541924	05/11/20 09:32	FXG	TAL CHI
Total Recoverable	Prep	3005A			541749	05/08/20 17:56	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	541924	05/11/20 09:44	FXG	TAL CHI
Total/NA	Prep	7470A			541685	05/08/20 11:42	MJG	TAL CHI
Total/NA	Analysis	7470A		1	541926	05/11/20 09:18	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	541790	05/09/20 21:03	CLB	TAL CHI
Total/NA	Analysis	SM 2540D		1	541699		SMO	TAL CHI
					(Start)	05/08/20 12:32		
					(End)	05/08/20 12:33		

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Tetra Tech EM Inc.
Project/Site: Crawford Station Demolition Oversight

Job ID: 500-181748-1

Laboratory: Eurofins TestAmerica, Chicago

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

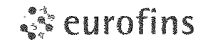
Authority	Program	Identification Number	Expiration Date
California	State	2903	04-30-20 *
Georgia	State	N/A	04-30-20 *
Georgia (DW)	State	939	04-30-20 *
Hawaii	State	NA	04-30-20 *
Illinois	NELAP	IL00035	04-30-20 *
Indiana	State	C-IL-02	04-30-20 *
Iowa	State	082	05-01-20 *
Kansas	NELAP	E-10161	11-01-20
Kentucky (UST)	State	AI # 108083	04-30-20 *
Kentucky (WW)	State	KY90023	12-31-20
Louisiana	NELAP	02046	06-30-20
Mississippi	State	NA	04-30-20 *
New York	NELAP	12019	04-01-21
North Carolina (WW/SW)	State	291	12-31-20
North Dakota	State	R-194	04-30-20 *
Oklahoma	State	8908	08-31-20
South Carolina	State	77001003	04-30-20 *
USDA	US Federal Programs	P330-18-00018	02-11-21
Wisconsin	State	999580010	08-31-20
Wyoming	State	8TMS-Q	04-30-20 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Chicago

Chain of Custody Record

434040




Environment Testing
TestAmerica

Address: _____

Regulatory Program: DW NPDES RCRA Other:

TAL-8210

Client Contact Company Name: tetra tech Address: 1 S Walker Dr City/State/Zip: Chicago IL 60606 Phone: 7089554569 Fax: _____ Project Name: Crawford Demolition Site: 103 S 3284th 003 PO # _____		Project Manager: Stacey Dunley Tel/Email: 708-955-4569		Site Contact: Rachel Home Lab Contact: _____		Date: 5/7/20 Carrier: _____		COC No: _____ _____ of _____ COCs																																																																																														
Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below 3 day <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Filtered Sample (Y/N) _____ Perform MS / MSD (Y/N) _____ Total Metals _____ SVOC _____ VOC _____ PCB _____ TSS/TDS _____		 500-181748 COC		Sampler: _____ For Lab Use Only: Walk-in Client: _____ Lab Sampling: _____		Job / SDG No.: 500-181748																																																																																														
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">Sample Identification</th> <th style="width: 10%;">Sample Date</th> <th style="width: 10%;">Sample Time</th> <th style="width: 10%;">Sample Type (C=Comp, G=Grab)</th> <th style="width: 10%;">Matrix</th> <th style="width: 10%;"># of Cont.</th> <th style="width: 10%;">Preservation</th> <th style="width: 10%;">MS/MSD</th> <th style="width: 10%;">MS/MSD</th> <th style="width: 10%;">MS/MSD</th> <th style="width: 10%;">MS/MSD</th> <th style="width: 10%;">MS/MSD</th> <th style="width: 10%;">MS/MSD</th> <th style="width: 10%;">MS/MSD</th> <th style="width: 10%;">MS/MSD</th> <th style="width: 10%;">MS/MSD</th> <th style="width: 10%;">MS/MSD</th> <th style="width: 10%;">MS/MSD</th> <th style="width: 10%;">MS/MSD</th> </tr> </thead> <tbody> <tr> <td>1 CPP-SW01-200507</td> <td>5/7/20</td> <td>15:24</td> <td>G</td> <td>W</td> <td>9</td> <td>N</td> <td>XX</td> <td>XXX</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2 CPP-SW02-200507</td> <td></td> <td>15:46</td> <td>G</td> <td>W</td> <td>9</td> <td>N</td> <td> </td> <td> </td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3 CPP-SW03-200507</td> <td></td> <td>15:50</td> <td>G</td> <td>W</td> <td>9</td> <td>N</td> <td> </td> <td> </td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4 CPP-SW01-200507-D</td> <td></td> <td>15:24</td> <td>G</td> <td>W</td> <td>9</td> <td>N</td> <td> </td> <td> </td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>						Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Preservation	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD	1 CPP-SW01-200507	5/7/20	15:24	G	W	9	N	XX	XXX												2 CPP-SW02-200507		15:46	G	W	9	N														3 CPP-SW03-200507		15:50	G	W	9	N														4 CPP-SW01-200507-D		15:24	G	W	9	N											
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Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months																																																																																												
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown										Special Instructions/QC Requirements & Comments: <div style="text-align: right; font-size: 24pt; font-weight: bold;">0.1 48qt</div>																																																																																												
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No					Custody Seal No.: _____					Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____																																																																																												
Relinquished by: <i>[Signature]</i>			Company: Tetra Tech			Date/Time: 5/7/20 16:40			Received by: <i>[Signature]</i>			Company: JA			Date/Time: 5/7/20 16:40																																																																																							
Relinquished by: <i>[Signature]</i>			Company: JA			Date/Time: 5/8/20			Received by: <i>[Signature]</i>			Company: JA			Date/Time: 5/8/20 0800																																																																																							
Relinquished by: <i>[Signature]</i>			Company: JA			Date/Time: 5/8/20 9:55			Received in Laboratory by: <i>[Signature]</i>			Company: DA-CH			Date/Time: 5/8/20 0955																																																																																							



Login Sample Receipt Checklist

Client: Tetra Tech EM Inc.

Job Number: 500-181748-1

SDG Number:

Login Number: 181748

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
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	0.1
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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	