



February 7, 2024

Ms. Lisa Dunning
Task Order Contracting Officer's Representative
U.S. Environmental Protection Agency, Region 7
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Lenexa, Kansas 66219

**Subject: Contract No. 68HERH19D0018; Task Order No. 68E0719F0190
Cameron City Park
Cameron, DeKalb County, Missouri
Targeted Brownfields Assessment, Phase II Environmental Site Assessment**

Dear Ms. Dunning:

Toeroek Associates, Inc. (Toeroek) and our teaming subcontractor, Tetra Tech, Inc. (Tetra Tech), (hereafter "Toeroek Team") are pleased to present the Phase II Environmental Site Assessment (ESA) report regarding the Cameron City Park site at Northland Drive in Cameron, DeKalb County, Missouri. This deliverable has been reviewed internally as part of Tetra Tech's quality assurance program, as well as Toeroek's quality assurance program, and is consistent with Toeroek's Quality Management Plan for the Resource Conservation and Recovery Act (RCRA) Enforcement and Permitting Assistance (REPA) contract. Documentation of this review is retained in the Toeroek Team's project files.

If you have any questions or comments, please contact Greg Hanna at 720-898-4102 or Kaitlyn Mitchell at 816-412-1742.

Sincerely,

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Enclosure: Phase II ESA

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**TARGETED BROWNFIELDS ASSESSMENT
PHASE II ENVIRONMENTAL SITE ASSESSMENT**

**CAMERON CITY PARK
NORTHLAND DRIVE
CAMERON, DEKALB COUNTY, MISSOURI**



Prepared for

**U.S. ENVIRONMENTAL PROTECTION AGENCY
REGION 7**

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CONTENTS

<u>Section</u>	<u>Page</u>
1.0 INTRODUCTION	1
1.1 PURPOSE	1
1.2 SPECIAL TERMS AND CONDITIONS	1
2.0 BACKGROUND AND SITE HISTORY	2
2.1 SITE DESCRIPTION AND FEATURES	2
2.2 PHYSICAL SETTING	2
2.2.1 Geologic Setting	2
2.2.2 Hydrogeology	3
2.2.3 Hydrology	3
2.2.4 Meteorology	3
2.3 SITE HISTORY AND LAND USE	4
2.4 ADJACENT PROPERTY USE	4
2.5 SUMMARY OF PREVIOUS ASSESSMENTS	4
3.0 PHASE II ENVIRONMENTAL SITE ASSESSMENT ACTIVITIES	5
3.1 SCOPE OF THE ASSESSMENT	5
3.1.1 Sampling Plan	5
3.1.2 Chemical Testing Plan	5
3.1.3 Deviations from the QAPP	6
3.2 FIELD EXPLORATION AND METHODS	6
3.2.1 Soil Sampling	6
3.2.2 Groundwater Sampling	7
3.2.3 Soil-gas Sampling	9
3.2.4 Quality Control Sampling	10
4.0 PRESENTATION AND EVALUATION OF RESULTS	11
4.1 SOIL SAMPLES	11
4.2 GROUNDWATER SAMPLES	15
4.3 SOIL-GAS SAMPLES	17
4.4 QUALITY CONTROL SAMPLES	18
5.0 DISCUSSION OF SIGNIFICANT FINDINGS AND CONCLUSIONS	20
5.1 SOIL	20
5.2 GROUNDWATER	21
5.3 SOIL GAS	21
5.4 LAND AND GROUNDWATER USE RESTRICTIONS	21
5.5 PHYSICAL CONDITIONS	21
5.6 REMEDIAL ACTIVITIES AT THE SITE	22
5.7 EXPOSURE MODEL	22

5.7.1	Groundwater Migration Pathway and Targets.....	22
5.7.2	Surface Water Migration Pathway and Targets.....	22
5.7.3	Soil Exposure and Air Migration Pathways and Targets.....	22
5.7.4	Subsurface Vapor Intrusion Migration Pathway and Targets.....	23
5.8	AFFECTED MEDIA	23
6.0	REFERENCES	24

TABLES

<u>Table</u>	<u>Page</u>
TABLE 1 SOIL SAMPLE SUMMARY	7
TABLE 2 GROUNDWATER SAMPLE SUMMARY	8
TABLE 3 SOIL-GAS SAMPLE SUMMARY	9
TABLE 4 DETECTED METALS RESULTS FROM SOIL SAMPLES.....	14
TABLE 5 DETECTED TOTAL METALS RESULTS FROM GROUNDWATER SAMPLES	16
TABLE 6 DETECTED DISSOLVED METALS RESULTS FROM GROUNDWATER SAMPLES	17
TABLE 7 DETECTED VOC RESULTS FROM SOIL-GAS SAMPLES.....	18

APPENDICES

Appendix

APPENDIX A FIGURES

APPENDIX B PHOTOGRAPHIC DOCUMENTATION LOG

APPENDIX C LOGBOOK AND SOIL BORING LOGS

APPENDIX D ANALYTICAL DATA PACKAGES AND DATA VALIDATION REPORTS

FIGURES (in Appendix A)

Figure

FIGURE 1 SITE LOCATION MAP

FIGURE 2 SAMPLE LOCATION MAP

FIGURE 3 METALS IN SOIL EXCEEDANCES

FIGURE 4 DISSOLVED METALS IN GROUNDWATER EXCEEDANCES

1.0 INTRODUCTION

The U.S. Environmental Protection Agency (EPA) tasked Toeroek Associates, Inc. (Toeroek) and its teaming subcontractor, Tetra Tech, Inc. (Tetra Tech), (Toeroek Team) with providing technical support to the EPA Region 7 Brownfields Program under Contract Number (No.) 68HERH19D0018, Task Order No. 68E0719F0190. EPA Region 7 requested the Toeroek Team conduct a Phase II Environmental Site Assessment (ESA) as part of a Targeted Brownfields Assessment (TBA) of the Cameron City Park site at Northland Drive in Cameron, DeKalb County, Missouri (the “Site”) ([Appendix A, Figure 1](#)). The Site is vacant and largely overgrown.

In addition, the Toeroek Team conducted a Phase I ESA of the Site in August 2023 on behalf of the City of Cameron as part of the TBA. The intent of the Phase I ESA was to identify recognized environmental conditions (RECs) for the Site.

The scope of this Phase II ESA included collection of soil, groundwater, and soil-gas samples to confirm or eliminate RECs identified during the Phase I ESA (Toeroek Team 2023a). Phase II fieldwork activities were conducted on November 16 and 17, 2023.

This Phase II ESA report is consistent with ASTM International (ASTM) Standard E1903-19 for Phase II ESAs, and otherwise complies with EPA’s “All Appropriate Inquiries” Rule (AAI Rule) (40 *Code of Federal Regulations* [CFR] Part 312).

1.1 PURPOSE

Purposes of this Phase II ESA were to: (1) confirm or eliminate RECs identified during the Phase I ESA; (2) acquire information regarding the nature of contamination (if present) and risks posed by that contamination that would support informed business decisions about the Site; and (3) where applicable, satisfy the innocent purchaser defense under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

1.2 SPECIAL TERMS AND CONDITIONS

No special terms or conditions were identified during this Phase II ESA.

2.0 BACKGROUND AND SITE HISTORY

This section specifies the location of the Site, features of the Site, describes the physical setting, recounts the history of the Site, discusses land uses at the Site and adjacent properties, and summarizes results of previous investigations.

2.1 SITE DESCRIPTION AND FEATURES

The approximately 4.6-acre Site is within the southern portion of a larger parcel (Parcel No. 424216601400000000900). The Site does not have a geo-coded address but is north of Northland Drive and northeast of Clinton Drive in Cameron, DeKalb County, Missouri ([Appendix A, Figure 2](#)). The Site is depicted on the Winston, Missouri, U.S. Geological Survey (USGS) 7.5-minute topographic series maps (USGS 1984) ([Appendix A, Figure 1](#)). Coordinates at the approximate center of the Site are 39.751172 degrees (°) north latitude and 94.229188° west longitude, in DeKalb County, approximately 0.25 mile north of Clinton County.

The Site is currently vacant, and no structure has been known to be present on the Site. The previous property owner had allowed uncontrolled dumping on the Site. The Site is currently bisected by a gravel road, which runs southwest to northeast and is largely overgrown. Debris piles consisting of rubble, metal pipes, utility poles, tires, and similar refuse are visible in multiple areas throughout the Site. At least one abandoned vehicle (a bulldozer) was observed at the Site.

2.2 PHYSICAL SETTING

The Site is in the northeast portion of the City of Cameron and is bounded north by vacant land, a former antique store, and a car dealership, with U.S. Highway 36 beyond; east by vacant land, with Interstate 35 (I-35) beyond; south by Northland Drive, with a ballpark and industrial businesses beyond; and west by Cameron Manor apartment complex, with residential and commercial properties beyond. The Site surface generally slopes to the east-northeast following riparian streamways and the topographic gradient.

2.2.1 Geologic Setting

Dominant soils in the area are Lamoni clay loam, Shelby loam, and Colo silty clay loam. The Lamoni series consists of deep, somewhat poorly drained soils with moderately low to moderately high transmissivity. Slopes range from 5 to 9 percent. The Shelby series consists of deep, well-drained soils with moderately high transmissivity. Slopes range from 9 to 14 percent. The Shelby and Lamoni series typically are found on hillslopes. The Colo series consists of deep, poorly drained soils with moderately low to moderately high

transmissivity. These soils are found in drainageways, and frequently are flooded (U.S. Department of Agriculture [USDA] 2023).

The Site overlies the Pennsylvanian Lansing group limestones and shales with glacial drift overlying. Bedrock is assumed to be 75 to 100 feet below ground surface (bgs) based on data from the Missouri Geological Society (MGS) (MGS 2023).

2.2.2 Hydrogeology

The Site is in DeKalb County, Missouri, which is within the Northwest Missouri Province aquifer system. The water-yielding rocks of the aquifer system are Pennsylvanian limestone and dolomites, and the confining units consist of shale or dolomite (USGS 1997). Well log data in the area indicate that groundwater is shallow, generally between 5 and 20 feet bgs (MGS 2023).

The hydrologic gradient at the subject property is not known but is inferred to be parallel to the topographic gradient, which primarily slopes to the east-northeast. In the absence of site-specific data or other indicators, direction of groundwater flow has been inferred from the regional topography to be to the east-northeast. Actual groundwater flow direction can be determined only by acquisition of site-specific groundwater elevation data.

2.2.3 Hydrology

The Site surface generally slopes to the east. Based on National Wetlands Inventory data, an unnamed perennial stream runs through the south and southeast portions of the Site (U.S. Fish and Wildlife Service [USFWS] 2023b). However, Toeroek Team personnel observed no water in the streambed at the time of the Site visit for the Phase I ESA or during Phase II fieldwork activities. Surface water likely penetrates the ground or flows to the east-northeast following the topographic gradient. Based on monitoring well data in the area, the static water level in this general area is less than 10 feet bgs.

Potable water in Cameron is sourced from surface water reservoirs, with the closest reservoir located approximately 1.3 miles northwest of the Site (Cameron Public Water Supply [PWS] 2023).

2.2.4 Meteorology

Annual average rainfall in Cameron, Missouri is approximately 39.10 inches. Average summer temperature highs are approximately 85 degrees Fahrenheit (°F). Average winter lows are approximately 19°F (National Oceanic and Atmospheric Administration [NOAA] 2020).

2.3 SITE HISTORY AND LAND USE

The Site has remained undeveloped to present day. The previous property owner allowed uncontrolled dumping at the Site. Debris piles including concrete, metal pipes, utility poles, and heavy machinery were observed throughout the Site. Findings of the Phase I ESA highlighted a discrepancy regarding Site ownership (Toeroek Team 2023a). The Site owner is assumed to be the City of Cameron based on chain-of-title documentation reviewed during the Phase I ESA. The TBA applicant is the City of Cameron. Future use of the Site is anticipated as a community park.

2.4 ADJACENT PROPERTY USE

The Site is approximately 0.7 mile northeast of the center of the City of Cameron and is bounded north by vacant land, a former antique store, and a car dealership, with U.S. Highway 36 beyond; east by vacant land, with I-35 beyond; south by Northland Drive, with vacant land and industrial businesses beyond; and west by Cameron Manor apartment complex, with residential and commercial properties beyond. A newly developed ballpark is southeast of the Site along Northland Drive.

2.5 SUMMARY OF PREVIOUS ASSESSMENTS

In August 2023, the Toeroek Team performed a Phase I ESA of the Site on behalf of the City of Cameron. This Phase II ESA was conducted as a result of the Phase I ESA findings, which identified the following RECs and vapor encroachment condition (VEC) at the Site:

- The Northland Cleaners site, approximately 0.115 mile west-southwest of the Site at 500 and 504 Northland Drive, is listed in the Environmental Data Resources (EDR) Historical Cleaners and Missouri Drycleaners databases as a dry cleaner facility from 1983 to 1993. Based on its proximity and location upgradient of the Site, this site poses a REC and VEC for the Site.
- The history of uncontrolled dumping at the Site as reported by the previous property owner poses a REC for the Site.

No other assessments are known to have occurred at the Site.

3.0 PHASE II ENVIRONMENTAL SITE ASSESSMENT ACTIVITIES

The following subsections indicate the scope of this Phase II ESA, describe field exploration, and specify methods implemented during this Phase II ESA. On November 16 and 17, 2023, Toeroek Team members Reed Niemack and Sarah Green conducted soil sampling, groundwater sampling, and soil-gas sampling at the Site. Photographs taken to document Phase II fieldwork activities are in [Appendix B](#). Phase II ESA field activities were documented in a site logbook; a copy is in [Appendix C](#).

3.1 SCOPE OF THE ASSESSMENT

The Toeroek Team performed environmental sampling to determine if soils, groundwater, and/or soil-gas had been contaminated, and if so, whether that resulted from historical activities at the Site. Sampling was consistent with the Quality Assurance Project Plan (QAPP) approved by EPA on October 25, 2023 (Toeroek Team 2023b).

3.1.1 Sampling Plan

The proposed sampling scheme for this project incorporated a combination of biased/judgmental sampling with definitive laboratory analysis, in accordance with procedures included in the *Guidance for Performing Site Inspections Under CERCLA* (EPA 1992). All samples were submitted for analysis to an off-site laboratory subcontracted by the Toeroek Team. Objectives of the sampling were to characterize possible previous releases to the environment. [Figure 2](#) in [Appendix A](#) depicts sampling locations at the Site. Sampling activities at the Site occurred as follows:

- Five surface soil and five subsurface soil samples were collected, one at each of five direct-push technology (DPT) boring locations (soil boring [SB] 1 through SB5). One duplicate pair was collected from the subsurface at SB4.
- Collections of five groundwater samples were attempted, one at each of the five DPT boring locations (SB1 through SB5). Groundwater was encountered only at SB2, SB3, and SB4. Groundwater was collected as a duplicate pair at SB2.
- Five soil-gas samples were collected, one at each of the five DPT boring locations (SB1 through SB5). At each DPT boring location, one soil-gas sample was collected within a 6-inch interval at a depth of approximately 8 feet bgs.

3.1.2 Chemical Testing Plan

Laboratory analyses for chemical parameters were selected based on possibly present contaminants associated with historical uses of the Site. Samples were submitted to Eurofins in Cedar Falls, Iowa (groundwater and soil) and Knoxville, Tennessee (soil gas). Soil and groundwater samples were analyzed

for the following parameters: volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), total petroleum hydrocarbons (TPH) (including gasoline-range organics [TPH-GRO], diesel-range organics [TPH-DRO], and oil-range organics [TPH-ORO]), and Target Analyte List (TAL) metals. In addition, groundwater samples were analyzed for total and dissolved TAL metals; samples for dissolved metals analysis were filtered in the field. Soil-gas samples were analyzed for VOCs.

3.1.3 Deviations from the QAPP

Trip blanks were not provided by Eurofins and; therefore, were not analyzed. Lack of analysis of a laboratory-provided trip blank does not affect the conclusions of this Phase II ESA.

3.2 FIELD EXPLORATION AND METHODS

Phase II fieldwork activities at the Site occurred on November 16 and 17, 2023. The following sections summarize soil, groundwater, and soil-gas sampling. Sample locations appear on [Figure 2](#) in [Appendix A](#).

3.2.1 Soil Sampling

Five surface and subsurface soil samples were collected during Phase II fieldwork activities to assess the presence of contamination from historical activities at the Site.

Sampling proceeded by use of a DPT rig. The Toeroek Team obtained soil cores using DPT sampler rods with disposable polyvinyl chloride (PVC) liners. The soil cores were screened with a hand-held photoionization detector (PID) for the presence of elevated concentrations of VOCs. DPT borings were to be advanced to maximum depth of 25 feet bgs or to refusal, whichever occurred first. Boring logs are in the logbook in [Appendix C](#).

Surface soil samples were collected within 0 to 3 feet bgs. Subsurface soil samples were collected at biased intervals based on the presence of staining, detection of odor, or elevated PID readings (obvious contamination). If no obvious contamination was noted within the subsurface intervals, a soil sample was collected from just above groundwater, if encountered, or the bottom 2-foot interval of the soil core.

After completion of sampling at each location, each non-disposable piece of sampling equipment that had encountered the soil sample was decontaminated by application of a non-phosphate detergent and tap water wash, followed by a tap water rinse. Because detected contamination was *de minimis* and obvious contamination was lacking (no PID readings, no staining, and no odor), disposal of soil investigation-derived waste (IDW) occurred on the ground adjacent to the boring, as described in the QAPP.

Soil sampling for analysis for VOCs proceeded via EPA Method 5035, which specifies collection of approximately 5 grams of soil directly from the undisturbed core by use of a disposable volatile organic analysis plunger, and placement of a portion of that soil into four 40-milliliter (mL) vials—one preserved with sodium bisulfate and one preserved with methanol, and two preserved with deionized water. Soil samples were analyzed for VOCs and TPH-GRO via EPA Method 8260. Remaining soil from each sample interval was homogenized and placed into one 4-ounce (oz) jar and analyzed for SVOCs and TPH-DRO/ORO (via EPA Method 8270) and TAL metals (via EPA Methods 6010 and 7471). [Table 1](#) summarizes soil samples collected during this Phase II ESA.

TABLE 1
SOIL SAMPLE SUMMARY
CAMERON CITY PARK, CAMERON, MISSOURI

Sample Identification (Depth Interval) ^a	Latitude (°North)	Longitude (°West)	Analyses Performed
SB1 (0-3)	39.751529	94.229650	VOCs and TPH-GRO (EPA Method 8260); SVOCs, TPH-DRO, and TPH-ORO (EPA Method 8270); and TAL metals (EPA Method 6010/7471).
SB1 (22-25)			
SB2 (0-3)	39.750471	94.229654	
SB2 (22-24)			
SB3 (0-3)	39.750406	94.229156	
SB3 (20-22)			
SB4 (0-3)	39.751209	94.228716	
SB4 (15-17)A			
SB4 (15-17)B (duplicate)			
SB5 (0-3)	39.751465	94.228399	
SB5 (18-20)			

Notes:

a	The depth interval units are in feet below ground surface.		
°	Degrees	SB	Soil boring
DRO	Diesel-range organics	SVOC	Semivolatile organic compound
EPA	U.S. Environmental Protection Agency	TAL	Target Analyte List
GRO	Gasoline-range organics	TPH	Total petroleum hydrocarbons
ORO	Oil-range organics	VOC	Volatile organic compound

3.2.2 Groundwater Sampling

Five groundwater samples (including a duplicate) were collected from temporary wells at locations co-located with the soil samples. Groundwater was encountered at depths ranging from 10 to 20 feet bgs. Some subsurface soil samples were collected from below the apparent water table. During sampling, it was unclear at what depth the sediments would yield water. Sands were encountered deeper than where water was encountered; typically in the silty clays.

Each temporary well was installed with a 1-inch, disposable, PVC well casing with a 10-foot screen set at the bottom of each boring. Before sampling for groundwater, approximately 1 gallon of water was purged through disposable polyethylene tubing with a check valve placed at the bottom of the tubing. Upon completion of groundwater sampling, the PVC was removed, and borings were filled with bentonite to the surface. After completion of groundwater sampling at each location, each piece of non-disposable sampling equipment that had encountered the groundwater sample was decontaminated by application of a non-phosphate detergent and tap water wash, followed by a tap water rinse. Because contamination was *de minimis* and obvious contamination was lacking (no PID readings, no staining, and no odor), disposal of groundwater IDW occurred on the ground adjacent to the boring, as described in the QAPP.

Groundwater samples to be analyzed for low-level VOCs and TPH-GRO (via EPA Method 8260) were collected into three 40-mL vials preserved with hydrochloric acid. Groundwater samples for analysis for SVOCs and TPH-DRO/ORO (via EPA Method 8270) were collected into two unpreserved 250-mL amber glass bottles. Each groundwater sample for analysis for TAL metals (via EPA Methods 6020 and 7470) was placed in two 250-mL plastic containers preserved with nitric acid. Each groundwater sample for analysis for total metals was field filtered by use of disposable 0.45-micron filters. Sample containers were provided by the laboratory. [Table 2](#) summarizes groundwater samples collected during this Phase II ESA.

TABLE 2
GROUNDWATER SAMPLE SUMMARY
CAMERON CITY PARK, CAMERON, MISSOURI

Sample Identification	Water Table (ft bgs)	Latitude (°North)	Longitude (°West)	Analyses Performed
GW2A	24	39.750471	94.229654	VOCs and TPH-GRO (EPA Method 8260); SVOCs, TPH-DRO, and TPH-ORO (EPA Method 8270); and dissolved and total TAL metals (EPA Method 6020/7470).
GW2B (duplicate)				
GW3	10.6	39.750406	94.229156	
GW4	15	39.751209	94.228716	

Notes:

°	Degrees	ORO	Oil-range organics
DRO	Diesel-range organics	SVOC	Semivolatile organic compound
EPA	U.S. Environmental Protection Agency	TAL	Target Analyte List
ft bgs	Feet below ground surface	TPH	Total petroleum hydrocarbons
GRO	Gasoline-range organics	VOC	Volatile organic compound
GW	Groundwater		

3.2.3 Soil-gas Sampling

The Toeroek Team collected five soil-gas samples during Phase II fieldwork activities, co-located with the five DPT borings (SB-1 through SB-5), to assess vapor contamination from historical activities at the Site.

At each sampling location, the DPT rig advanced steel rods to approximately 8 feet bgs and then retracted them approximately 6 inches to create a void space to allow collection of soil gas. The soil-gas samples were collected through the steel rods via disposable polyethylene tubing connected to the bottom of the rod string and to an evacuated vacuum canister on ground surface. Air in the tubing was evacuated by use of a vacuum pump prior to connection of the tubing to the canister. After connection of the canister to the tubing, a valve on the canister was opened to begin soil-gas sample collection. The canister remained attached to the polyethylene tubing until the vacuum gauge indicated approximately 5 to 7 inches of mercury (“Hg) in the canister. After completion of soil-gas sampling at each location, each piece of sampling equipment that encountered the soil-gas sample, except for the dedicated polyethylene tubing, was decontaminated by application of a non-phosphate detergent and tap water wash, followed by a tap water rinse.

Soil-gas was analyzed for VOCs via EPA Method Toxic Organics (TO)-15. [Table 3](#) summarizes soil-gas samples collected during this Phase II ESA.

TABLE 3
SOIL-GAS SAMPLE SUMMARY
CAMERON CITY PARK, CAMERON, MISSOURI

Sample Identification	Latitude (° North)	Longitude (° West)	Analyses Performed
SG-1	39.751529	94.229650	VOCs (EPA Method TO-15)
SG-2	39.750471	94.229654	
SG-3	39.750406	94.229156	
SG-4	39.751209	94.228716	
SG-5	39.751465	94.228399	

Notes:

° Degrees
EPA U.S. Environmental Protection Agency
SG Soil gas
TO Toxic organics
VOC Volatile organic compound

3.2.4 Quality Control Sampling

Field quality control sampling for this investigation included two field blanks, one equipment rinsate blank, one groundwater field duplicate, and one soil field duplicate. Field blanks were analyzed for VOCs, SVOCs, TPH, and TAL metals. Analytical data from the field blanks were used to assess contamination possibly introduced during sampling and/or laboratory procedures. Analytical data from the equipment rinsate sample were used to determine whether decontamination of equipment after sampling had been effective, and whether cross-contamination had occurred. Soil field duplicates and groundwater field duplicates were collected to determine total method precision. Analytical accuracy was determined by analyses of laboratory-prepared spikes and duplicates. Data-validation reports are in [Appendix D](#).

4.0 PRESENTATION AND EVALUATION OF RESULTS

The following sections present analytical data from soil, groundwater, and soil-gas samples collected during this Phase II ESA. Copies of analytical data packages and data validation reports are in [Appendix D](#).

Soil sample results from this Phase II ESA were compared to Missouri Risk-Based Corrective Action (MRBCA) Tier 1 Residential Risk-Based Target Levels (RBTLs) for Soil Type 2 (silty), and to EPA Regional Screening Levels (RSLs) for residential land uses (Missouri Department of Natural Resources [MoDNR] 2006; EPA 2023a). Metals results from soil samples also were compared to USGS average background concentrations in DeKalb County, Missouri, to determine if those metals results were consistent with naturally occurring concentrations (USGS 2023). A detected concentration of a metal is considered naturally occurring if at or below the average county background concentration (within one standard deviation of the mean).

Groundwater samples were compared to MRBCA Tier 1 Residential RBTLs for Soil Type 2 (silty) for groundwater, to federal Maximum Contaminant Levels (MCLs), and to EPA RSLs for tap water if no MCL had been established (MoDNR 2006, EPA 2023a).

Soil-gas sample results were compared to EPA Vapor Intrusion Screening Levels (VISLs) and MRBCA Tier 1 Residential RBTLs for Soil Type 2 (silty) (EPA 2023b; MoDNR 2006). EPA RSLs and VISLs assumed a target hazard quotient (THQ) of 0.1.

4.1 SOIL SAMPLES

Each of five surface and five subsurface soil samples were collected at one of five pre-selected locations to assess the presence of contamination from historical activities at the Site. Soil samples were submitted to Eurofins for analyses for VOCs, SVOCs, TPH, and TAL metals.

VOCs

Acetone, a common laboratory contaminant, was detected in one subsurface soil sample, SB3 (20-22), at a low concentration of 78.4 micrograms per kilogram ($\mu\text{g/kg}$). No other VOC was detected in any soil samples.

SVOCs

SVOCs, including polynuclear aromatic hydrocarbons (PAHs), were not detected in any soil samples.

TPH

TPH were not detected in any soil samples.

Metals

Surface and subsurface soil samples contained detections of many common metals. [Table 4](#) lists detected metals results. Metals concentrations in soil were compared to EPA residential and commercial/industrial RSLs, MRBCA RBTLs for silty residential soil, and average DeKalb County background levels.

Concentrations of metals in soils were only considered significantly above background if they exceeded the average background concentration for DeKalb County by one standard deviation. Detections of metals that do not significantly exceed the average background concentration for DeKalb County are likely from naturally occurring metals.

Findings of soils in metals included:

- Arsenic in subsurface soil sample SB3 (20-22) was detected at 31.8 milligrams per kilogram (mg/kg), significantly exceeding the background level of 13.3 mg/kg, the EPA Residential RSL of 0.677 mg/kg (and the less conservative commercial/industrial RSL), and the MRBCA Tier 1 RBTL of 3.89 mg/kg. Arsenic concentrations did not significantly exceed the average background level for DeKalb County in any other soil samples.
- Mercury was detected in one subsurface and one surface soil sample, SB2 (22-24) and SB3 (0-3), at 2.70 and 2.24 mg/kg, respectively. These concentrations exceeded the EPA Residential RSL of 1.09 mg/kg and significantly exceeded the background level of 0.01 mg/kg. Other samples contained mercury at concentrations exceeding the background level but not RSLs or RBTLs, except SB1 (22-25) in which mercury was not detected.
- Manganese was detected in one subsurface soil sample, SB3 (20-22), at 2,700 mg/kg, significantly exceeding the background level of 1,524 mg/kg, the EPA Residential RSL of 180 mg/kg, and the EPA commercial/industrial RSL of 2,600 mg/kg. Manganese concentrations exceeded the EPA Residential RSL of 180 mg/kg in 11 of 13 soil samples.
- Aluminum and iron are at very high background concentrations in DeKalb County. Aluminum concentrations exceeded the EPA Residential RSL of 7,700 mg/kg in 7 of 13 soil samples, but no aluminum detection exceeded the background level of 34,520 mg/kg. All soil samples contained iron at concentrations exceeding the EPA Residential RSL of 5,500 mg/kg, but only two yielded iron concentrations significantly exceeding the DeKalb County background level of 19,060 mg/kg.
- Beryllium, cobalt, and vanadium were detected in multiple soil samples at concentrations exceeding EPA and MRBCA screening levels; however, no background levels for these metals have been established in DeKalb County. Beryllium concentrations ranged from 0.554 to 1.54 mg/kg, exceeding the MRBCA Tier 1 RBTL of 0.737 mg/kg in 8 of 13 soil samples. Cobalt concentrations ranged from 1.98 to 27.8 mg/kg, exceeding the EPA Residential RSL of 2.3 mg/kg in 12 of 13 soil samples. Vanadium concentrations ranged from 20.6 to 61.3 mg/kg, exceeding the EPA Residential RSL of 39 mg/kg in 8 of 13 soil samples.

- Zinc concentrations ranged from 27.9 to 61.7 mg/kg, significantly exceeding the background level of 35.5 mg/kg in 6 of 13 soil samples, but not exceeding any other screening level. Copper concentrations ranged from 6.74 to 16.8 mg/kg, exceeding the background level of 8.7 mg/kg in 7 of 13 soil samples by more than one standard deviation, but not exceeding any other screening level.
- One subsurface soil sample, SB3 (20-22), contained lead at 39.5 mg/kg, significantly exceeding the background level of 26.3 mg/kg, but exceeding no screening level.
- Barium, chromium, and nickel were detected in most soil samples, but not at a concentration of exceeding a screening level.

Exceedances in soil are depicted on [Figure 3](#) in [Appendix A](#).

TABLE 4

DETECTED METALS RESULTS FROM SOIL SAMPLES
CAMERON CITY PARK, CAMERON, MISSOURI

Sample Identification ^a	Aluminum	Arsenic	Barium	Beryllium	Chromium (Total)	Cobalt	Copper	Iron	Lead	Mercury	Manganese	Nickel	Vanadium	Zinc
	EPA RSL (TR=1E-06, THQ=0.1) Residential Soil													
	7,700	0.677	1,500	16	11,700*	2.3	310	5,500	400	1.09	180	150	39	2,400
	EPA RSL (TR=1E-06, THQ=0.1) Commercial/Industrial Soil													
	112,000	3	22,000	230	175,000*	35	4,700	82,000	800	4,600	2,600	1,800	580	35,000
	MRBCA Tier 1 Residential RBTLs for Silty Soil													
	75,500	3.89	15,000	0.737	74,600	NE	3,000	NE	260	4,600	9,600	1,500	530	22,800
	USGS DeKalb County, Missouri Average (USGS 2023)													
	34,520	13.3	NE	NE	NE	NE	8.7	19,060	26.3	0.01	1,524	NE	NE	35.5
SB1 (0-3)	19,400	8.46	147	1.42	21.0	11.5	8.13	18,200	17	0.0354	634	15	49.9	33.7
SB1 (22-25)	9,390	11.3	78.0	1.24	20.7	4.27	15.9	25,600	10.2	ND	149	27.6	58.7	56.6
SB2 (0-3)	19,200	8.09	170	1.30	22.1	9.98	10.5	19,000	14.8	0.0250	512	19.1	49.4	55.9
SB2 (22-24)	3,100	7.88	126	0.571	9.06	4.56	6.74	12,500	5.03	2.70	203	13.0	20.6	32.2
SB3 (0-3)	16,500	9.44	246	1.32	24.4	10.5	15.3	19,600	12.3	2.24	755	23.2	45.4	42.3
SB3 (20-22)	8,510	31.8	376	1.30	11.0	27.8	7.38	19,300	39.5	0.143	2,700	22.8	61.3	27.9
SB4 (0-3)	25,100	11.8	186	1.54	24.2	1.98	11.2	22,400	9.99	0.139	65.5	16.5	55.9	38.3
SB4 (15-17)A	5,720	9.10	55.6	0.70	13.7	5.97	12.9	13,100	8.37	0.945	252	18.8	32.1	50.0
SB4 (15-17)B (duplicate)	7,100	10.0	69.0	0.959	15.8	10.8	14.5	16,400	9.44	1.03	464	21.8	40.1	51.7
SB-5 (0-3)	10.900	11.7	345	1.19	22.2	16.4	16.8	19,000	10.9	0.0723	1,410 J	35.8	56.0	61.7
SB5 (18-20)	2,880	8.12	82.2	0.554	8.02	4.16	7.85	12,600	5.46	0.50	245	13.3	23.4	40.0

Notes:

All values are in milligrams per kilogram.

Gold highlighting indicates detection exceeds the EPA RSL.

Bold font indicates concentrations significantly exceeding background levels.

Red highlighting indicates detection exceeds the MRBCA Screening Level and significantly exceeds background levels, where established.

a Depth of sample in feet below ground surface indicated with values in parenthesis following the sample identification.

* Trivalent chromium was assumed.

EPA U.S. Environmental Protection Agency

J Indicates the result is an estimate

MRBCA Missouri Risk-Based Corrective Action

ND Not detected

NE Not established

RBTL Risk-Based Target Level

RSL Regional Screening Level (EPA 2022b)

SB Soil boring

THQ Total hazard quotient

TR Total cancer risk

USGS U.S. Geological Survey

4.2 GROUNDWATER SAMPLES

Four groundwater samples were collected, co-located with soil sampling locations. Groundwater was encountered between 10 and 20 feet bgs, depending on location, as topography at the Site varied greatly. The groundwater samples were submitted to Eurofins for analyses for VOCs, SVOCs, TPH, and total and dissolved TAL metals.

VOCs

No VOC was detected in any groundwater sample collected.

SVOCs

No SVOC was detected in any groundwater sample collected.

TPH

TPH were not detected in any groundwater sample collected.

Metals

Total and dissolved metals were detected in all groundwater samples.

Total aluminum, arsenic, barium, beryllium, cobalt, iron, lead, manganese, nickel, and vanadium exceeded at least one screening level in multiple groundwater samples. Some components of the metals detected in unfiltered groundwater samples derive from suspended sediment. Only dissolved arsenic, cobalt, iron, and manganese exceeded a screening level. [Table 5](#) and [Table 6](#) list total metals and dissolved metals detections, respectively, in groundwater samples for constituents for which an EPA MCL or RSL has been established.

Exceedances of dissolved metals are depicted on [Figure 4](#) in [Appendix A](#).

TABLE 5

DETECTED TOTAL METALS RESULTS FROM GROUNDWATER SAMPLES
CAMERON CITY PARK, CAMERON, MISSOURI

Sample Identification	Aluminum	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Manganese	Nickel	Selenium	Vanadium	Zinc
	EPA MCL or EPA RSL (TR=1E-06, THQ=0.1) Tap Water *														
	2	0.010	2.0	0.004	0.005	0.10	0.0006	1.3	1.4	0.015	0.43	0.039	0.05	0.0086	0.6
	MRBCA Tier 1 Residential RBTLs Groundwater in Silty Soil														
	15.6	0.010	2.0	0.004	0.005	0.10	NE	0.624	NE	0.015	2.2	0.313	0.05	0.11	4.7
GW2A	2.91	0.008	0.135	ND	0.004	0.029	0.025	0.031	32.0	0.008	5.16	0.079	ND	0.019	0.099
GW2B	2.73	0.007	0.131	ND	0.003	0.039	0.024	0.031	54.5	0.008	5.23	0.107	ND	0.017	0.126
GW3	4.14	0.276	4.87	0.008	0.002	0.006	0.326	0.009	181	0.069	33.9	0.163	ND	0.237	0.059
GW4	6.22	0.014	0.196	0.001	0.002	0.028	0.020	0.018	15.7	0.015	8.10	0.036	0.006	0.051	0.045

Notes:

All values are in milligrams per liter.

Gold highlighting indicates detection exceeds the EPA MCL or RSL.

Red highlighting indicates detection exceeds the MRBCA Screening Level, where established.

- *

EPA RSL for tap water used if EPA MCL not established.
- EPA

U.S. Environmental Protection Agency
- GW

Groundwater
- MCL

Maximum Contaminant Level
- MRBCA

Missouri Risk-Based Corrective Action
- ND

Not detected
- NE

Not established
- RBTL

Risk-Based Target Level
- RSL

Regional Screening Level
- THQ

Total hazard quotient
- TR

Total cancer risk

TABLE 6

**DETECTED DISSOLVED METALS RESULTS FROM GROUNDWATER SAMPLES
CAMERON CITY PARK, CAMERON, MISSOURI**

Sample Identification	Arsenic	Barium	Cobalt	Iron	Manganese	Nickel	Zinc
	EPA MCL or EPA RSL (TR=1E-06, THQ=1.0) Tap Water *						
	0.010	2.0	0.00060	1.4	0.43	0.039	0.6
	MRBCA Tier 1 Residential RBTLs Groundwater in Silty Soil						
	0.010	2.0	NE	NE	2.2	0.313	4.7
GW2A	ND	0.038	0.011	9.17	2.62	0.028	0.023
GW2B	ND	0.137	0.037	39.8	9.11	0.125	0.105
GW3	0.187	1.37	0.051	49.9	16.5	0.015	ND
GW4	0.005	0.040	0.003	0.924	1.93	ND	ND

Notes:

All values are in milligrams per liter.

Gold highlighting indicates detection exceeds the EPA MCL or RSL.

Red highlighting indicates detection exceeds the MRBCA Screening Level, where established.

* EPA RSL for tap water used if EPA MCL not established.

EPA U.S. Environmental Protection Agency
GW Groundwater
MCL Maximum Contaminant Level
MRBCA Missouri Risk-Based Corrective Action
ND Not detected
NE Not established
RBTL Risk-Based Target Level
RSL Regional Screening Level
THQ Total hazard quotient
TR Total cancer risk

4.3 SOIL-GAS SAMPLES

The Toeroek Team collected five soil-gas samples co-located with each DPT boring (SB1 through SB5). Soil-gas samples were collected to assess the presence of contamination in soil vapors from historical activities at the Site and were analyzed for VOCs via EPA Method TO-15.

Acetone was detected in one soil-gas sample, and trichlorofluoromethane (freon-11) was detected in two soil-gas samples, with none of these concentrations exceeding a MRBCA Tier 1 Residential RBTL. EPA VISLs for the two detected contaminants have not been established. [Table 7](#) below lists detected VOC results from soil-gas samples.

TABLE 7

**DETECTED VOC RESULTS FROM SOIL-GAS SAMPLES
CAMERON CITY PARK, CAMERON, MISSOURI**

Sample Identification	Acetone	Trichlorofluoromethane (Freon-11)
	EPA Residential Target Sub-Slab and Near-source Soil-Gas VISL (TR=1E-06, THQ=0.1)	
	NE	NE
	EPA Commercial Target Sub-Slab and Near-source Soil-Gas VISL (TR=1E-06, THQ=0.1)	
	NE	NE
	MRBCA Tier 1 Screening Levels for Residential Soil Vapors Soil Type 2 (silty)	
	95,900,000	30,700,000
SG-1	ND	ND
SG-2	212	13.0
SG-3	ND	ND
SG-4	ND	ND
SG-5	ND	21.7

Notes:

All values are in micrograms per cubic meter.

EPA U.S. Environmental Protection Agency
MRBCA Missouri Risk-Based Corrective Action
ND Not detected
NE Not established
SG Soil gas
THQ Total hazard quotient
TR Total cancer risk
VISL Vapor Intrusion Screening Level

4.4 QUALITY CONTROL SAMPLES

Field quality control sampling for this investigation included two field blank samples, one equipment rinsate blank sample, one groundwater field duplicate sample, and one soil field duplicate sample. Field blank samples were analyzed for VOCs, SVOCs, TPH, and TAL metals. Analytical data from the field blanks were used to assess contamination possibly introduced during sampling and/or laboratory procedures. Analytical data from the equipment rinsate sample were used to determine whether decontamination of equipment after sampling had been effective, and whether cross-contamination had occurred. Soil field duplicates and groundwater field duplicate samples were collected to determine total method precision.

Total barium, calcium, iron, and manganese, and dissolved manganese were detected at low concentrations in field blank sample FB1. Total calcium was detected in field blank sample FB2 at a low concentration. No detection of any contaminant occurred in the equipment blank sample EB1.

Data validation reports in [Appendix D](#) discuss implications of these detections in the field blank samples. Even though samples were analyzed outside of standard holding times, no data were rejected; all data were usable as qualified based on findings of data validation.

5.0 DISCUSSION OF SIGNIFICANT FINDINGS AND CONCLUSIONS

This section summarizes significant findings and offers conclusions regarding this Phase II ESA.

5.1 SOIL

VOCs (other than acetone), SVOCs, and TPH were not detected in any soil sample. Metals were detected in all soil samples.

Detections of metals that did not significantly exceed the average background concentration for DeKalb County are considered naturally occurring for the purposes of this Phase II ESA and are not discussed further in this section. In surface soil, the following metals significantly exceeded the average background levels for DeKalb County and at least one screening level:

- Mercury in SB3 (0-3) exceeded the EPA RSL; and
- Iron in SB4 (0-3) exceeded the EPA RSL.

In subsurface soil, the following metals significantly exceeded the average background levels for DeKalb County and at least one screening level:

- Arsenic in SB3 (20-22) exceeded the EPA RSL and MRBCA Tier 1 Residential RBTL;
- Mercury in SB2 (22-24) exceeded the EPA RSL;
- Manganese in SB3 (20-22) exceeded the EPA RSL; and
- Iron in SB1 (22-25) exceeded the EPA RSL.

Although the concentration of arsenic in the subsurface soil sample from SB3 significantly exceeded the background concentration, the concentration of arsenic in the surface soil sample from the same location did not. This pattern of detection is consistent with a natural origin rather than a release from industrial activity at the Site.

Concentrations of beryllium exceeded the MRBCA Tier 1 residential RBTL in surface samples in all five surface soil samples and in the subsurface soil samples from SB1, SB3, and SB4. No concentration of beryllium in soil exceeded the higher EPA residential RSL. Beryllium does not have a background concentration established by USGS. However, the concentrations detected in the subsurface soil samples were similar to those detected in the surface samples, consistent with a natural origin.

No other detections of metals that significantly exceeded a background level also exceeded the MRBCA residential RBTL.

5.2 GROUNDWATER

VOCs, SVOCs, and TPH were not detected in any groundwater sample. Total and dissolved metals were detected in every groundwater sample. Total metals exceedances are as follows:

- Aluminum in GW2A, GW2B, GW3, and GW4 – EPA MCL/RSL;
- Arsenic in GW3 and GW4 – EPA MCL/RSL and MRCBA RBTL;
- Barium in GW3 – EPA MCL/RSL and MRBCA RBTL;
- Cobalt in GW2A, GW2B, GW3, and GW4 – EPA MCL/RSL and MRCBA RBTL;
- Iron in GW2A, GW2B, GW3, and GW4 – EPA MCL/RSL;
- Lead in GW3 and GW4 – EPA MCL/RSL and MRCBA RBTL;
- Manganese in GW2A, GW2B, GW3, and GW4 – EPA MCL/RSL and MRCBA RBTL;
- Nickel in GW2A, GW2B, GW3 – EPA MCL/RSL; and
- Vanadium in GW2A, GW2B, GW3, and GW4 – EPA MCL/RSL and MRCBA RBTL.

Exceedances of dissolved metals are as follows:

- Arsenic in GW3 – EPA MCL/RSL and MRCBA RBTL;
- Cobalt in GW2A, GW2B, GW3, and GW4 – EPA MCL/RSL;
- Iron in GW2A, GW2B, and GW3 – EPA MCL/RSL;
- Manganese in GW2A, GW2B, GW3, and GW4 – EPA MCL/RSL and MRCBA RBTL; and
- Nickel in GW2B – EPA MCL/RSL.

5.3 SOIL GAS

The VOCs acetone and trichlorofluoromethane were detected in two soil-gas samples at concentrations below MRBCA Tier 1 Residential RBTLs for silty soil. EPA VISLs have not been established for acetone and trichlorofluoromethane.

5.4 LAND AND GROUNDWATER USE RESTRICTIONS

No known land or groundwater use restrictions exist.

5.5 PHYSICAL CONDITIONS

A discussion of physical conditions is in [Section 2.2](#) of this report.

5.6 REMEDIAL ACTIVITIES AT THE SITE

No known remedial activities have occurred at the Site.

5.7 EXPOSURE MODEL

The following sections discuss contaminant migration pathways and targets.

5.7.1 Groundwater Migration Pathway and Targets

The Site is within a mixed residential and commercial area of the City of Cameron. Groundwater was encountered at the Site at approximately 10 to 20 feet bgs. No active wells are on the Site. Groundwater at the Site is not used as a potable water supply; nor is it expected to in the future. Surface water from a nearby reservoir is used as a source of municipal water in the area (Cameron PWS 2023). Because planned future land use of the Site is a city park, and potable water from any planned drinking fountain or restroom would be supplied by the City of Cameron, likelihood of ingestion of or dermal exposure to contaminants present in groundwater at the Site is low. No contaminants other than metals were detected in the groundwater samples; therefore, no vapor risk from groundwater is anticipated.

5.7.2 Surface Water Migration Pathway and Targets

The hydrologic gradient at the Site is not known but may be inferred to be consistent with the topographic gradient, which extends primarily to northeast. No critical habitats are listed on the Site (USFWS 2023a). Absence of threatened species at the Site area has not been verified, and the Site has not undergone a habitat assessment.

The Site includes a stream that runs southwest to northeast through the southeast corner of the Site. The stream is indicated on the National Wetlands Inventory; however, the presence of surface water in the streambed was not observed by Toeroek Team personnel during the Site visit for the Phase I ESA or during Phase II fieldwork activities. Stormwater is assumed to infiltrate into the soil or flow overland to the northeast and off of the Site. Likelihood of exposure based on the surface water pathway is low.

5.7.3 Soil Exposure and Air Migration Pathways and Targets

The Site hosts no structures and a gravel drive that diagonally bisects the Site. No VOCs, SVOCs, or TPH were detected in soil samples collected at the Site; however, many common metals were detected in multiple soil samples. Only one detection—arsenic in sample SB3 (20-22)—exceeded the MRBCA Tier 1 RBTL and significantly exceeded background. Given the deep location of the detected arsenic, likelihood

of ingestion of or dermal exposure to arsenic above RBTL in soil at the Site is low. Additionally, concentrations of beryllium exceeded MRBCA Tier 1 Residential RBTLs in most soil samples, but no average background concentration for DeKalb County has been established for this metal. The distribution of detection of beryllium suggests a natural origin.

5.7.4 Subsurface Vapor Intrusion Migration Pathway and Targets

Soil-gas samples were collected at five locations (co-located with the soil and groundwater sample locations). In two soil-gas samples, acetone and trichlorofluoromethane were detected at concentrations below MRBCA Tier 1 Residential RBTLs for silty soil. EPA VISLs for these contaminants have not been established.

The Site does not currently host any structures and has remained undeveloped. Based on detected concentrations of contaminants, commercial and residential receptors are at a low risk of exposure to VOCs in soil vapors, given the planned future land use as a city park and assumed not to include enclosed structures. Likelihood of exposure to contaminants via vapor intrusion at the Site is low.

5.8 AFFECTED MEDIA

Sampling results during this Phase II ESA indicated the presence of metals in soil and groundwater, and of VOCs in soil gas at the Site. According to the TBA application (EPA 2023c), the City of Cameron is planning to redevelop the Site into a city park.

Detections of metals in soil that exceed MRBCA Tier 1 Residential RBTLs are generally consistent with a natural origin. Based on analytical results, proposed future land use, and detected concentrations of metals in groundwater at concentrations above the MRBCA RBTL for groundwater, establishment of an environmental covenant disallowing installation of shallow groundwater drinking water wells at the Site in the future appears warranted.

6.0 REFERENCES

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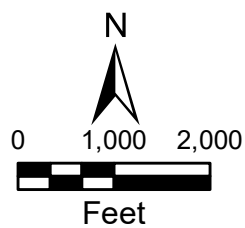
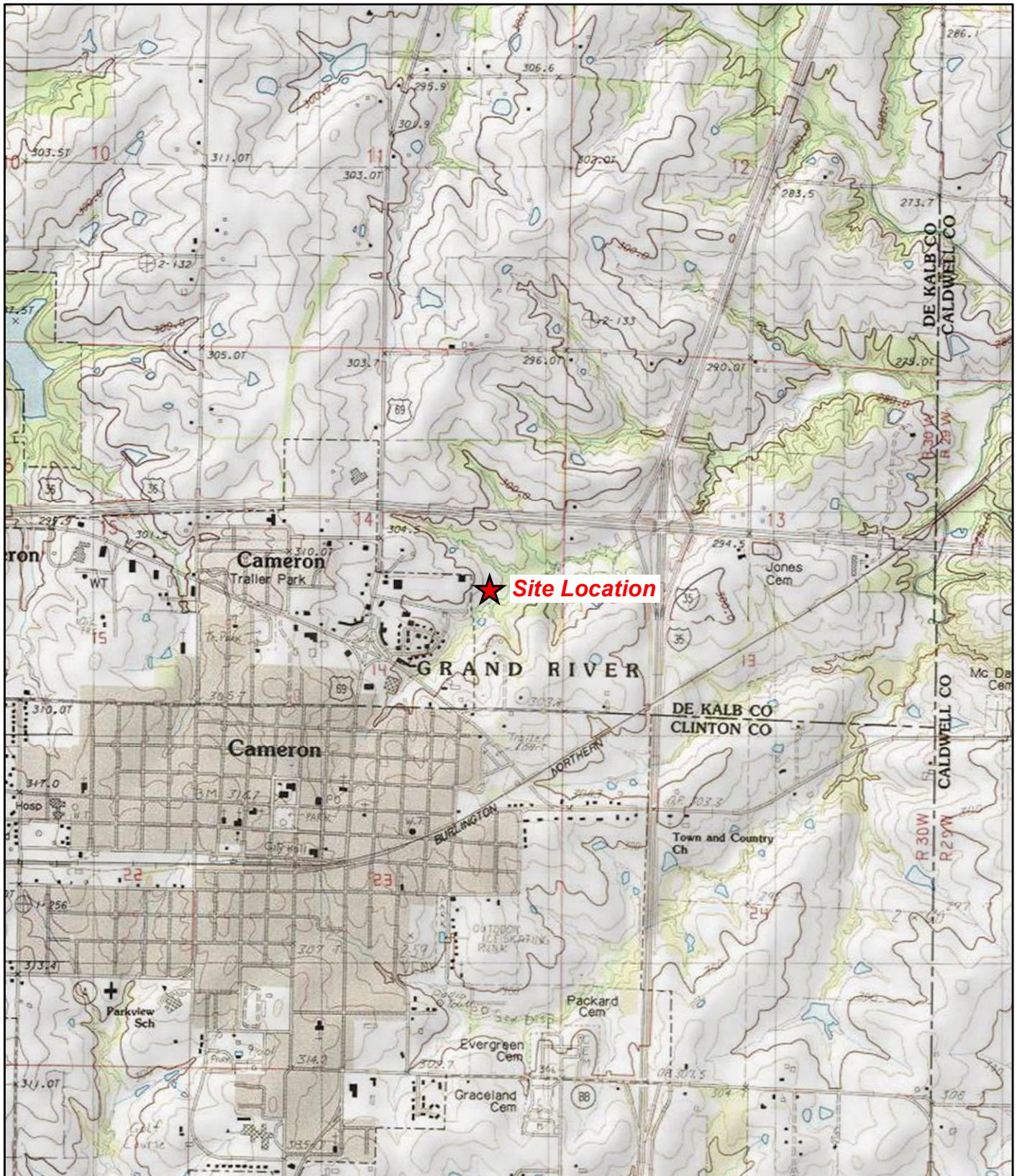
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APPENDIX A

FIGURES

FIGURE 1
SITE LOCATION MAP



Cameron City Park
Cameron, Missouri

Figure 1
Site Location Map



Source: USGS Cameron East, MO 7.5 Minute Topo Quad, 1984;
USGS Winston, MO 7.5 Minute Topo Quad, 1984.

Date: 12/19/2023




Drawn By: Nick Wiederholt

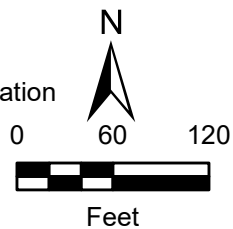
Project No: 103P65210190.20.03

FIGURE 2
SAMPLE LOCATION MAP



Legend

-  DPT soil/soil gas sample location
-  DPT soil/groundwater/soil gas sample location
-  Subject property boundary
- DPT Direct-push technology



Cameron City Park
Cameron, Missouri

Figure 2
Sample Location Map



Source: MSDIS, Statewide Aerial Imagery, 2023

Date: 12/19/2023

Drawn By: Nick Wiederholt

Project No: 103P65210190.20.01

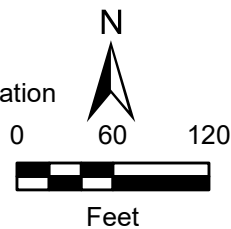
FIGURE 3
METALS IN SOIL EXCEEDANCES



Notes:
 - Concentrations depicted exceed background levels and at least one Screening Level.
 - Results are in milligrams per kilogram (mg/kg).

Legend

- DPT soil/soil gas sample location
- DPT soil/groundwater/soil gas sample location
- Subject property boundary
- DPT Direct-push technology

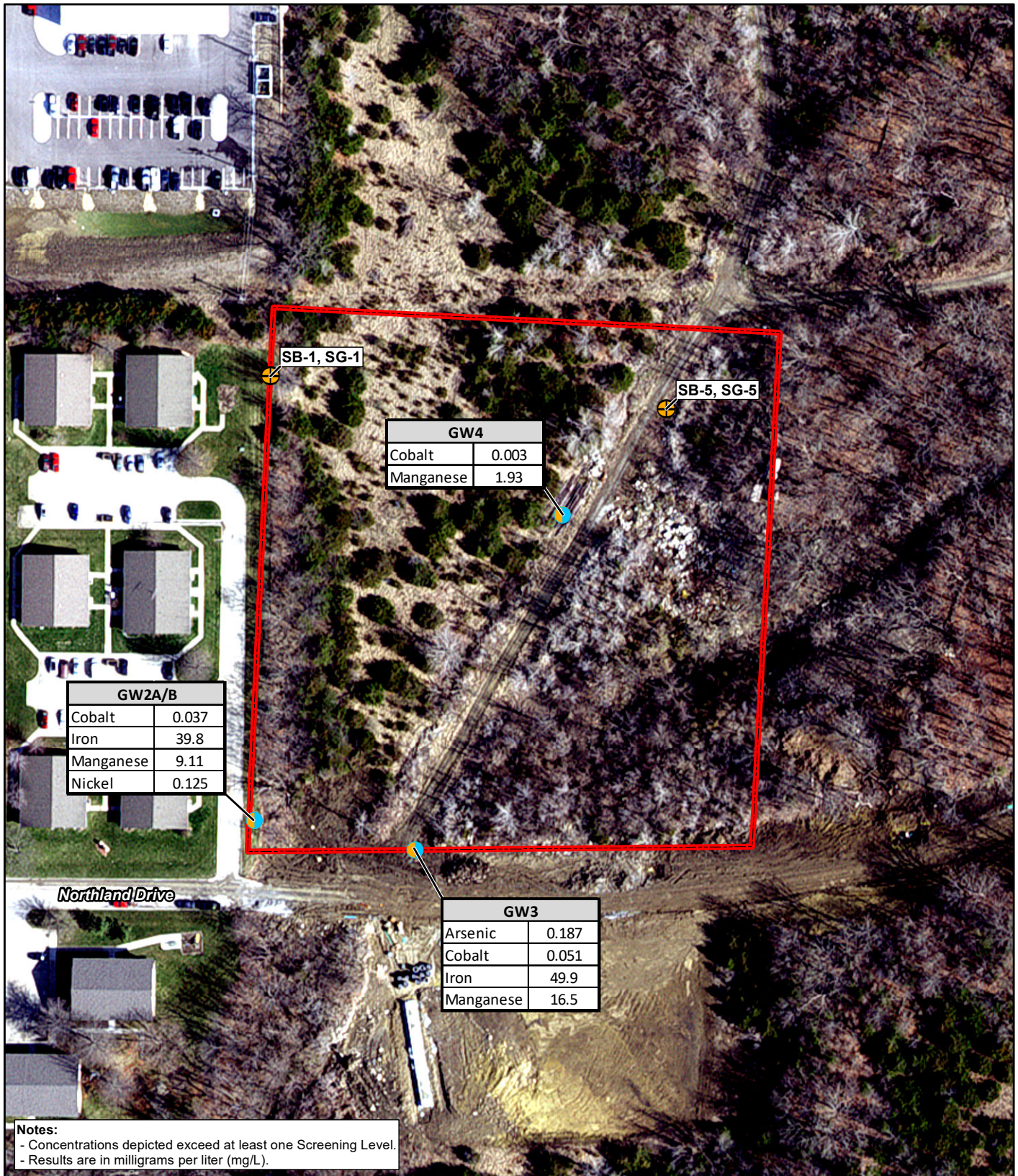


Cameron City Park
 Cameron, Missouri

Figure 3
 Metals in Soil Exceedances

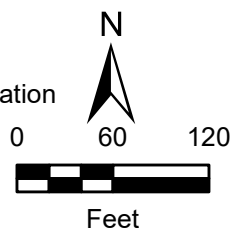


FIGURE 4
DISSOLVED METALS IN GROUNDWATER EXCEEDANCES



Legend

- DPT soil/soil gas sample location
- DPT soil/groundwater/soil gas sample location
- Subject property boundary
- DPT Direct-push technology



Cameron City Park
Cameron, Missouri

Figure 4 Dissolved Metals in Groundwater Exceedances



Source: MSDIS, Statewide Aerial Imagery, 2023

Date: 1/17/2024

Drawn By: Nick Wiederholt

Project No: 103P65210190.20.01

APPENDIX B

PHOTOGRAPHIC DOCUMENTATION LOG

**Phase II Environmental Site Assessment
Photographic Documentation
Cameron City Park – Cameron, Missouri**



SUBTASK NO. 20.03	DESCRIPTION	This photograph shows the direct-push technology (DPT) rig at SB-1.	1
	CLIENT	U.S. Environmental Protection Agency (EPA)	Date: 11/16/23
Direction: Northeast	PHOTOGRAPHER	Reed Niemack	



SUBTASK NO. 19.03	DESCRIPTION	This photograph shows SB-2 location indicated by the stake with the pink flag on the left side of the image.	2
	CLIENT	EPA	Date: 11/16/23
Direction: South	PHOTOGRAPHER	Reed Niemack	

**Phase II Environmental Site Assessment
Photographic Documentation
Cameron City Park – Cameron, Missouri**

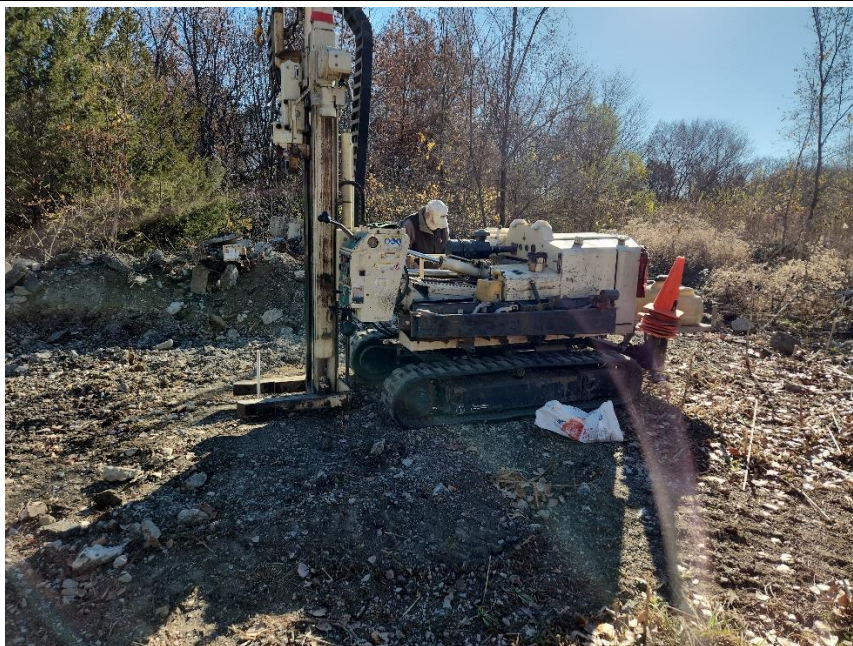


SUBTASK NO. 20.03	DESCRIPTION	This photograph shows the extracted soil core at SB-3.	3
	CLIENT	EPA	Date: 11/16/23
Direction: Northeast	PHOTOGRAPHER	Reed Niemack	



SUBTASK NO. 19.03	DESCRIPTION	This photograph shows the DPT rig at SB-4 near the discarded utility poles.	4
	CLIENT	EPA	Date: 11/16/23
Direction: Northwest	PHOTOGRAPHER	Reed Niemack	

**Phase II Environmental Site Assessment
Photographic Documentation
Cameron City Park – Cameron, Missouri**



SUBTASK NO. 20.03	DESCRIPTION	This photograph shows polyvinyl chloride (PVC) pipe inserted into borehole SB-5 as a temporary well.	5
	CLIENT	EPA	Date: 11/17/23
Direction: East	PHOTOGRAPHER	Reed Niemack	



SUBTASK NO. 19.03	DESCRIPTION	This photograph shows the site from the north. The DPT rig is at SB-5, a discarded bulldozer is in the brush on the left side of the image, south of the entrance to the lift station (left of image).	6
	CLIENT	EPA	Date: 11/16/23
Direction: South	PHOTOGRAPHER	Reed Niemack	

APPENDIX C
LOGBOOK AND SOIL BORING LOGS

KS1980



Rite in the Rain.

ALL-WEATHER

LEVEL

Nº 311FX

X6521.0190.20

Cameron City Park

— EST. 1916 —
Rite in the Rain®

== DEFYING MOTHER NATURE ==

Name _____

Address _____

Phone _____

Project Cameron City Park

Phase II



RiteintheRain.com

CONTENTS

Cameron MO

Cameron City Park phase II

Nov. 16, 2023

0800: S. Green arrives on site.
Tim Wymes with the City of
Cameron arrived on site to
go over the activities of
sampling.

The city cleared + marked
sampling locations.

0810: Plains environmental (drillers)
arrived on site. Drillers + S. Green
walked the site to plan
sampling strategy.

0820: Driller staged at NW
corner to begin drilling at
Location #1.

0825: R. Niemalk arrived on site.
Set up sampling station at
Location #1

0847: begin drilling boring #1

9:09: collected SG-1

start press: -28.6 sum time: 9:07

end press: -2 end time: 9:09

can ID: 34000201

9:11: Begin SB-1

coord: 39.7515683°N, 94.2297°W

Cameron City park phase II

SB-1 Boring log

0-1 ft: Silty loam, dry, light brown.
organic matter + ~~grass~~^{scr} plastic debris

1-2 ft: dark brown silty loam. dry

2-5 ft: light brown silty loam. dry.

- no PID readings

5-7 ft: light brown clayey silt. dry

7-10 ft: light brown clayey silt with

white chalky / powdery substance

interspersed throughout.

appears like pulverized gravel?

- NO PID readings

10-13.5 ft: med brown silty clay. dry.

13.5-15 ft: med brown silty clay with interspersed

white chalky / powdery substance.

- NO PID reading.

15-16 ft: med brown silty clay. dry

16-19 ft: light brown sandy clay <10% sand.

19-20 ft med brown, silty clay. dry.

- NO PID readings

20-24 ft: med brown clayey silt. <10% fine sand
semi-dry.

24-25 ft med brown silty clay with gray
clay interspersed. semi-moist

- NO PID readings

Rite in the Rain

Cameron City Park Phase II

9:40: collect SB-1 (0-3)

9:50: collect SB-1 (22-25)

Borings were very dry. NO
groundwater encountered. Did not
set PVC.

10:20: move to boring #2 and
set up sampling station

10:25: Begin Boring #2

coord: 39° 75' 04" N, 94° 22' 97" W

11:33: collect SG-2

Start press: -28.9 Start time: 10:30

end press: -3 end time: 10:32

can ID: 10554

10:35: begin SB-2

SB-2 Boring Log:

0-5 ft: Silty clay loam. dark brown. dry. roots
into top few in. gravel interspersed to
5 ft.

- NO PID readings

5-6 ft: dark brown silty clay loam dry. with gravel

6-10 ft: black/brown semi-moist clayey silt.

- ~~NO PID~~, NO PID reading.
Slight odor.

10-12 ft: black/brown soft, moist clayey silt.

Slight odor. NO PID readings

Cameron City Park phase II

12-15 ft: greenish brown, semi-moist silty clay.
- NO PID readings

15-18 ft: med brown moist clay silt

18-20 ft: med brown semi-moist silty clay
with <10% very fine sand. soft
- NO PID readings

20-22 ft: med brown semi-moist silty clay

22-24 ft: dark brown, semi-moist silty clay.

24-25 ft: moist coarse sand, → moist med
brown clay, → moist med-grained sand.
~~dry~~ drier.

- NO PID reading.

Water encountered at 24 ft?

11:05: collect SB-2 (0-3)

11:18: collect SB-2 (22-24)

11:20: ~~PVC set in the boring~~
began GW-2. GW encountered
using water level meter at
16.6 ft bgs.

11:35: collect GW-2A

11:50: collect GW-2B (duplicate)

12:00: move to location #3

begin SG-3

collect SG-3 can ID: 03852

Start time 12:25 Start press: -28.6

end time 12:36 end press: ~~-4~~ ^{hit in the rain.}

1240: begin SB-3

SB-3 Boring Log

0-4 ft clayey silt loam with gravel + black glass fragments

4-5 ft med. brown clayey silt, dry, dense.

5-5.5 ft: med brown/green clayey silt, dry

5.5-7.5 ft dark brown clayey silt, dry

7.5-9 ft med brown clayey silt, dry

9-10 ft black/brown semi-moist silty clay.
slight odor

- NO PID reading.

10-11 ft black/brown semi-moist, soft silty clay.
slight odor11-15 ft med brown semi-dry, dense silty clay.
one white/chalky spt. internal structure
- NO PID readings

15-17 ft dark brown semi-moist silty clay, dense

17-18 ft black/brown semi-moist silty clay, dense

18-19.5 ft black/brown, moist soft clayey silt.

19.5-20 ft black/gray fine sand, moist

- NO PID readings.

20-22 ft: black/gray silty sand, wet.

22-23.5: wet fine sand, black/gray

23.5-24.5: wet sandy clay, black/gray

24.5-25 ft: dark brown fine sand, semi-moist.

1255 collect SB-3 (0-3)

1310 collect SB-3 (20-22)

1330 collect ~~SB~~ GW-3

groundwater encountered at 10.6 ft

1400: move to location #4

1405: begin Boring #4

1427: collect SB-4 can ID: 34006247

start time: 14:13 start press - 28.7

end time: 14:27 end press - 4

14:20 collected field blank (FB-1)

14:22 Begin SB-4

SB-4 Boring Log

0-1 foot med brown silty clay loam

1-5 ft: med brown, semi-moist silty clay.

5-7 ft: med brown, semi-moist, silty clay, soft

7-10 ft: med brown, semi-moist, clayey silt, soft

10-14 ft: med brown, semi-moist, silty clay with
very fine sand ~10-20%. soft14-15 ft: med brown, moist, silty clay with 50%
pebbles

- NO PID readings so far.

1455: SB-4 (0-3) collected

1500: collected SB-4 (15-17) A

and SB-4 (15-17) B

15:30: departed from site. Will continue at 9AM
tomorrow. ———— ~~SB~~ ———— *Return to site*

Cameron City Park Phase II

NOV 17, 2023

0900: S. Green + R. Niemack

arrive on site

0910: begin boring #5

0922: collect SB-5

start time: 0922 start press. - 28.6

end time: 0922 end press. - 2

can ID: 34230

0930: collect SB5 (0-3)

0935: field blank 2 (FB2) collected

SB-5 Boring Log

0 - .5 ft med brown silty clay loam. dry

.5 - 1 ft pavement gravel

1 - 1.5 ft med brown clayey silt loam. dry

1.5 - 5 ft med grained sand. dry.

- NO PID readings.

5 - 5.5 ft: med-grained sand. dry

5.5 - 8 ft med brown clayey silt. dry. dense.

8 - 10 ft med brown clayey silt. dry. dense.

- NO PID readings

10 - 12 ft med brown clayey silt. ~~dry~~ dense.semi-dry with interspersed pockets
of fine sand.

12 - 13 ft med brown clayey silt. semi-moist. dense.

Cameron City Park Phase II

13-14 ft dark brown clayey silt. dense.

semi-dry.

14-15 ft black/brown silty clay semi-dry. dense.

15-17 ft black/brown silty clay. semi-moist.

softer. with gray coarse sand at
the bottom17-20 ft gray sandy silt ~ 50% very fine sand.
semi-moist

- NO PID readings

20-24 ft moist sandy silt. 75% very fine sand

25-25 ft: dry ~~sandy~~ sandy silt. ~ 80% very fine sand

- NO PID readings

0940: collect SB-5 (18-20)

0945: DVC inserted into boring. appears dry.
will allow to recharge for a
period of time.

(collect equipment inside blank (EB-1))

1020: groundwater not encountered.
well dry.

1040: S. Green + R. Niemack finish

preparing samples for shipment

1100: coolers were filled with ice
and samples were shipped
to their respective labs.

S. Green + R. Niemack leave site.

SG

Rite in the Rain.

APPENDIX D

ANALYTICAL DATA PACKAGES AND DATA VALIDATION REPORTS

ANALYTICAL REPORT

PREPARED FOR

Attn: Macy La Masney
Tetra Tech EM Inc.
415 Oak Street
Kansas City, Missouri 64106

Generated 12/12/2023 3:01:19 PM

JOB DESCRIPTION

Cameron City Park Site, Cameron MO

JOB NUMBER

310-269966-1

Eurofins Cedar Falls

Job Notes

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

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

Authorization



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12/12/2023 3:01:19 PM

Authorized for release by
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Table of Contents

Cover Page 1

Table of Contents 3

Case Narrative 4

Sample Summary 6

Detection Summary 7

Client Sample Results 15

Definitions 94

Surrogate Summary 95

QC Sample Results 98

QC Association 129

Chronicle 137

Certification Summary 146

Method Summary 147

Chain of Custody 148

Receipt Checklists 152



Case Narrative

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Job ID: 310-269966-1

Laboratory: Eurofins Cedar Falls

Narrative

Job Narrative 310-269966-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 11/18/2023 8:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.1°C and 3.6°C

GC/MS VOA

Method 8260D: The following sample was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The samples were analyzed outside the 7-day holding time specified for unpreserved samples but within the 14-day holding time specified for preserved samples: GW2A (310-269966-12), GW2B (310-269966-13), GW3 (310-269966-14) and GW4 (310-269966-16).

Method 8260D: The following sample was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The samples were analyzed outside the 7-day holding time specified for unpreserved samples but within the 14-day holding time specified for preserved samples: GW2A (310-269966-12), GW2B (310-269966-13) and GW4 (310-269966-16).

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

GC/MS Semi VOA

Method 8270E: The continuing calibration verification (CCV) associated with batch 310-407605 recovered above the upper control limit for 2-Nitrophenol (23.8%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270E: The following analyte(s) recovered outside control limits for the LCS/LCSD associated with preparation batch 310-406676 and analytical batch 310-407605: 4-Chloroaniline, Pyridine and 3-Nitroaniline. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method 8270E: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 310-406676 and analytical batch 310-407605 recovered outside control limits for the following analytes: 4-Chloroaniline and Pyridine.

Method 8270E: The continuing calibration verification (CCV) associated with batch 310-407426 recovered above the upper control limit for 3,3'-Dichlorobenzidine (23.7%D), 4-Nitrophenol (24.9%D) and 2-Nitrophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270E: The following samples were diluted due to the nature of the sample matrix: SB4 (15-17)A (310-269966-8), SB4 (15-17)B (310-269966-9) and SB5 (18-20) (310-269966-11). Elevated reporting limits (RLs) are provided.

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

Metals

Method 6010D: The following sample(s) was diluted due to the presence of an interferent. >: SB1 (22-25) (310-269966-2) and SB4 (0-3)

Case Narrative

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Job ID: 310-269966-1 (Continued)

Laboratory: Eurofins Cedar Falls (Continued)

(310-269966-7). Elevated reporting limits (RLs) are provided.

Method 6020B: The reference method requires samples to be preserved to a pH of <2. The following samples were received with insufficient preservation at a pH of >2: GW2A (310-269966-12), GW2B (310-269966-13), GW3 (310-269966-14) and GW4 (310-269966-16). The sample(s) was preserved to the appropriate pH in the laboratory.

Method 7470A: The reference method requires samples to be preserved to a pH of <2. The following sample was received with insufficient preservation at a pH of >2: GW2A (310-269966-12). The sample(s) was preserved to the appropriate pH in the laboratory.

Method 7470A: The reference method requires samples to be preserved to a pH of <2. The following samples were received with insufficient preservation at a pH of >2: GW2B (310-269966-13), GW3 (310-269966-14) and GW4 (310-269966-16). The sample(s) was preserved to the appropriate pH in the laboratory.

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

General Chemistry

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

Sample Summary

Client: Tetra Tech EM Inc.

Job ID: 310-269966-1

Project/Site: Cameron City Park Site, Cameron MO

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-269966-1	SB1 (0-3)	Solid	11/16/23 09:40	11/18/23 08:50
310-269966-2	SB1 (22-25)	Solid	11/16/23 09:50	11/18/23 08:50
310-269966-3	SB2 (0-3)	Solid	11/16/23 11:05	11/18/23 08:50
310-269966-4	SB2 (22-24)	Solid	11/16/23 11:15	11/18/23 08:50
310-269966-5	SB3 (0-3)	Solid	11/16/23 12:55	11/18/23 08:50
310-269966-6	SB3 (20-22)	Solid	11/16/23 13:10	11/18/23 08:50
310-269966-7	SB4 (0-3)	Solid	11/16/23 14:55	11/18/23 08:50
310-269966-8	SB4 (15-17)A	Solid	11/16/23 15:00	11/18/23 08:50
310-269966-9	SB4 (15-17)B	Solid	11/16/23 15:00	11/18/23 08:50
310-269966-10	SB5 (0-3)	Solid	11/17/23 09:30	11/18/23 08:50
310-269966-11	SB5 (18-20)	Solid	11/17/23 09:40	11/18/23 08:50
310-269966-12	GW2A	Water	11/16/23 11:35	11/18/23 08:50
310-269966-13	GW2B	Water	11/16/23 11:50	11/18/23 08:50
310-269966-14	GW3	Water	11/16/23 13:30	11/18/23 08:50
310-269966-15	FB1	Water	11/16/23 14:20	11/18/23 08:50
310-269966-16	GW4	Water	11/16/23 15:10	11/18/23 08:50
310-269966-17	FB2	Water	11/17/23 09:35	11/18/23 08:50
310-269966-18	EB1	Water	11/17/23 10:15	11/18/23 08:50

Detection Summary

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB1 (0-3)

Lab Sample ID: 310-269966-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	19400		26.8		mg/Kg	1	✱		6010D	Total/NA
Arsenic	8.46		4.29		mg/Kg	1	✱		6010D	Total/NA
Barium	147		1.07		mg/Kg	1	✱		6010D	Total/NA
Beryllium	1.42		0.536		mg/Kg	1	✱		6010D	Total/NA
Calcium	4620		107		mg/Kg	1	✱		6010D	Total/NA
Chromium	21.0		1.07		mg/Kg	1	✱		6010D	Total/NA
Cobalt	11.5		1.07		mg/Kg	1	✱		6010D	Total/NA
Copper	8.13		1.07		mg/Kg	1	✱		6010D	Total/NA
Iron	18200		53.6		mg/Kg	1	✱		6010D	Total/NA
Lead	17.0		5.36		mg/Kg	1	✱		6010D	Total/NA
Magnesium	2200		53.6		mg/Kg	1	✱		6010D	Total/NA
Manganese	634		2.68		mg/Kg	1	✱		6010D	Total/NA
Nickel	15.0		2.68		mg/Kg	1	✱		6010D	Total/NA
Potassium	1240		107		mg/Kg	1	✱		6010D	Total/NA
Vanadium	49.9		2.68		mg/Kg	1	✱		6010D	Total/NA
Zinc	33.7		5.36		mg/Kg	1	✱		6010D	Total/NA
Mercury	0.0354		0.0234		mg/Kg	1	✱		7471B	Total/NA

Client Sample ID: SB1 (22-25)

Lab Sample ID: 310-269966-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	9390		47.7		mg/Kg	2	✱		6010D	Total/NA
Arsenic	11.3		7.63		mg/Kg	2	✱		6010D	Total/NA
Barium	78.0		1.91		mg/Kg	2	✱		6010D	Total/NA
Beryllium	1.24		0.954		mg/Kg	2	✱		6010D	Total/NA
Calcium	43300		191		mg/Kg	2	✱		6010D	Total/NA
Chromium	20.7		1.91		mg/Kg	2	✱		6010D	Total/NA
Cobalt	4.27		1.91		mg/Kg	2	✱		6010D	Total/NA
Copper	15.9		1.91		mg/Kg	2	✱		6010D	Total/NA
Iron	25600		95.4		mg/Kg	2	✱		6010D	Total/NA
Lead	10.2		9.54		mg/Kg	2	✱		6010D	Total/NA
Magnesium	5750		95.4		mg/Kg	2	✱		6010D	Total/NA
Manganese	149		4.77		mg/Kg	2	✱		6010D	Total/NA
Nickel	27.6		4.77		mg/Kg	2	✱		6010D	Total/NA
Potassium	1590		191		mg/Kg	2	✱		6010D	Total/NA
Sodium	193		191		mg/Kg	2	✱		6010D	Total/NA
Vanadium	58.7		4.77		mg/Kg	2	✱		6010D	Total/NA
Zinc	56.6		9.54		mg/Kg	2	✱		6010D	Total/NA

Client Sample ID: SB2 (0-3)

Lab Sample ID: 310-269966-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	19200		25.3		mg/Kg	1	✱		6010D	Total/NA
Arsenic	8.09		4.05		mg/Kg	1	✱		6010D	Total/NA
Barium	170		1.01		mg/Kg	1	✱		6010D	Total/NA
Beryllium	1.30		0.507		mg/Kg	1	✱		6010D	Total/NA
Calcium	10800		101		mg/Kg	1	✱		6010D	Total/NA
Chromium	22.1		1.01		mg/Kg	1	✱		6010D	Total/NA
Cobalt	9.98		1.01		mg/Kg	1	✱		6010D	Total/NA
Copper	10.5		1.01		mg/Kg	1	✱		6010D	Total/NA
Iron	19000		50.7		mg/Kg	1	✱		6010D	Total/NA
Lead	14.8		5.07		mg/Kg	1	✱		6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB2 (0-3) (Continued)

Lab Sample ID: 310-269966-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	3090		50.7		mg/Kg	1	✱	6010D	Total/NA
Manganese	512		2.53		mg/Kg	1	✱	6010D	Total/NA
Nickel	19.1		2.53		mg/Kg	1	✱	6010D	Total/NA
Potassium	1360		101		mg/Kg	1	✱	6010D	Total/NA
Vanadium	49.4		2.53		mg/Kg	1	✱	6010D	Total/NA
Zinc	55.9		5.07		mg/Kg	1	✱	6010D	Total/NA
Mercury	0.0250		0.0174		mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: SB2 (22-24)

Lab Sample ID: 310-269966-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	3100		21.3		mg/Kg	1	✱	6010D	Total/NA
Arsenic	7.88		3.41		mg/Kg	1	✱	6010D	Total/NA
Barium	126		0.853		mg/Kg	1	✱	6010D	Total/NA
Beryllium	0.571		0.427		mg/Kg	1	✱	6010D	Total/NA
Calcium	29700		85.3		mg/Kg	1	✱	6010D	Total/NA
Chromium	9.06		0.853		mg/Kg	1	✱	6010D	Total/NA
Cobalt	4.56		0.853		mg/Kg	1	✱	6010D	Total/NA
Copper	6.74		0.853		mg/Kg	1	✱	6010D	Total/NA
Iron	12500		42.7		mg/Kg	1	✱	6010D	Total/NA
Lead	5.03		4.27		mg/Kg	1	✱	6010D	Total/NA
Magnesium	4160		42.7		mg/Kg	1	✱	6010D	Total/NA
Manganese	203		2.13		mg/Kg	1	✱	6010D	Total/NA
Nickel	13.0		2.13		mg/Kg	1	✱	6010D	Total/NA
Potassium	595		85.3		mg/Kg	1	✱	6010D	Total/NA
Sodium	134		85.3		mg/Kg	1	✱	6010D	Total/NA
Vanadium	20.6		2.13		mg/Kg	1	✱	6010D	Total/NA
Zinc	32.2		4.27		mg/Kg	1	✱	6010D	Total/NA
Mercury	2.70		0.361		mg/Kg	20	✱	7471B	Total/NA

Client Sample ID: SB3 (0-3)

Lab Sample ID: 310-269966-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	16500		24.9		mg/Kg	1	✱	6010D	Total/NA
Arsenic	9.44		3.99		mg/Kg	1	✱	6010D	Total/NA
Barium	246		0.998		mg/Kg	1	✱	6010D	Total/NA
Beryllium	1.32		0.499		mg/Kg	1	✱	6010D	Total/NA
Calcium	28600		99.8		mg/Kg	1	✱	6010D	Total/NA
Chromium	24.4		0.998		mg/Kg	1	✱	6010D	Total/NA
Cobalt	10.5		0.998		mg/Kg	1	✱	6010D	Total/NA
Copper	15.3		0.998		mg/Kg	1	✱	6010D	Total/NA
Iron	19600		49.9		mg/Kg	1	✱	6010D	Total/NA
Lead	12.3		4.99		mg/Kg	1	✱	6010D	Total/NA
Magnesium	3800		49.9		mg/Kg	1	✱	6010D	Total/NA
Manganese	755		2.49		mg/Kg	1	✱	6010D	Total/NA
Nickel	23.2		2.49		mg/Kg	1	✱	6010D	Total/NA
Potassium	1370		99.8		mg/Kg	1	✱	6010D	Total/NA
Sodium	227		99.8		mg/Kg	1	✱	6010D	Total/NA
Vanadium	45.4		2.49		mg/Kg	1	✱	6010D	Total/NA
Zinc	42.3		4.99		mg/Kg	1	✱	6010D	Total/NA
Mercury	2.24		0.391		mg/Kg	20	✱	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: Tetra Tech EM Inc.

Job ID: 310-269966-1

Project/Site: Cameron City Park Site, Cameron MO

Client Sample ID: SB3 (20-22)

Lab Sample ID: 310-269966-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	78.4		40.5		ug/Kg	1	✖	8260D	Total/NA
Aluminum	8510		28.7		mg/Kg	1	✖	6010D	Total/NA
Arsenic	31.8		4.60		mg/Kg	1	✖	6010D	Total/NA
Barium	376		1.15		mg/Kg	1	✖	6010D	Total/NA
Beryllium	1.30		0.575		mg/Kg	1	✖	6010D	Total/NA
Calcium	4360		115		mg/Kg	1	✖	6010D	Total/NA
Chromium	11.0		1.15		mg/Kg	1	✖	6010D	Total/NA
Cobalt	27.8		1.15		mg/Kg	1	✖	6010D	Total/NA
Copper	7.38		1.15		mg/Kg	1	✖	6010D	Total/NA
Iron	19300		57.5		mg/Kg	1	✖	6010D	Total/NA
Lead	39.5		5.75		mg/Kg	1	✖	6010D	Total/NA
Magnesium	1560		57.5		mg/Kg	1	✖	6010D	Total/NA
Manganese	2700		2.87		mg/Kg	1	✖	6010D	Total/NA
Nickel	22.8		2.87		mg/Kg	1	✖	6010D	Total/NA
Potassium	801		115		mg/Kg	1	✖	6010D	Total/NA
Sodium	125		115		mg/Kg	1	✖	6010D	Total/NA
Vanadium	61.3		2.87		mg/Kg	1	✖	6010D	Total/NA
Zinc	27.9		5.75		mg/Kg	1	✖	6010D	Total/NA
Mercury	0.143		0.0223		mg/Kg	1	✖	7471B	Total/NA

Client Sample ID: SB4 (0-3)

Lab Sample ID: 310-269966-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	25100		48.5		mg/Kg	2	✖	6010D	Total/NA
Arsenic	11.8		7.76		mg/Kg	2	✖	6010D	Total/NA
Barium	186		1.94		mg/Kg	2	✖	6010D	Total/NA
Beryllium	1.54		0.970		mg/Kg	2	✖	6010D	Total/NA
Calcium	4530		194		mg/Kg	2	✖	6010D	Total/NA
Chromium	24.2		1.94		mg/Kg	2	✖	6010D	Total/NA
Cobalt	1.98		1.94		mg/Kg	2	✖	6010D	Total/NA
Copper	11.2		1.94		mg/Kg	2	✖	6010D	Total/NA
Iron	22400		97.0		mg/Kg	2	✖	6010D	Total/NA
Lead	9.99		9.70		mg/Kg	2	✖	6010D	Total/NA
Magnesium	3040		97.0		mg/Kg	2	✖	6010D	Total/NA
Manganese	65.5		4.85		mg/Kg	2	✖	6010D	Total/NA
Nickel	16.5		4.85		mg/Kg	2	✖	6010D	Total/NA
Potassium	1560		194		mg/Kg	2	✖	6010D	Total/NA
Vanadium	55.9		4.85		mg/Kg	2	✖	6010D	Total/NA
Zinc	38.3		9.70		mg/Kg	2	✖	6010D	Total/NA
Mercury	0.139		0.0213		mg/Kg	1	✖	7471B	Total/NA

Client Sample ID: SB4 (15-17)A

Lab Sample ID: 310-269966-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	5720		26.3		mg/Kg	1	✖	6010D	Total/NA
Arsenic	9.10		4.20		mg/Kg	1	✖	6010D	Total/NA
Barium	55.6		1.05		mg/Kg	1	✖	6010D	Total/NA
Beryllium	0.700		0.525		mg/Kg	1	✖	6010D	Total/NA
Calcium	38500		105		mg/Kg	1	✖	6010D	Total/NA
Chromium	13.7		1.05		mg/Kg	1	✖	6010D	Total/NA
Cobalt	5.97		1.05		mg/Kg	1	✖	6010D	Total/NA
Copper	12.9		1.05		mg/Kg	1	✖	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: Tetra Tech EM Inc.

Job ID: 310-269966-1

Project/Site: Cameron City Park Site, Cameron MO

Client Sample ID: SB4 (15-17)A (Continued)

Lab Sample ID: 310-269966-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Iron	13100		52.5		mg/Kg	1		✱	6010D	Total/NA
Lead	8.37		5.25		mg/Kg	1		✱	6010D	Total/NA
Magnesium	6880		52.5		mg/Kg	1		✱	6010D	Total/NA
Manganese	252		2.63		mg/Kg	1		✱	6010D	Total/NA
Nickel	18.8		2.63		mg/Kg	1		✱	6010D	Total/NA
Potassium	1230		105		mg/Kg	1		✱	6010D	Total/NA
Sodium	161		105		mg/Kg	1		✱	6010D	Total/NA
Vanadium	32.1		2.63		mg/Kg	1		✱	6010D	Total/NA
Zinc	50.0		5.25		mg/Kg	1		✱	6010D	Total/NA
Mercury	0.945		0.183		mg/Kg	10		✱	7471B	Total/NA

Client Sample ID: SB4 (15-17)B

Lab Sample ID: 310-269966-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	7100		24.8		mg/Kg	1		✱	6010D	Total/NA
Arsenic	10.0		3.97		mg/Kg	1		✱	6010D	Total/NA
Barium	69.0		0.992		mg/Kg	1		✱	6010D	Total/NA
Beryllium	0.959		0.496		mg/Kg	1		✱	6010D	Total/NA
Calcium	43500		99.2		mg/Kg	1		✱	6010D	Total/NA
Chromium	15.8		0.992		mg/Kg	1		✱	6010D	Total/NA
Cobalt	10.8		0.992		mg/Kg	1		✱	6010D	Total/NA
Copper	14.5		0.992		mg/Kg	1		✱	6010D	Total/NA
Iron	16400		49.6		mg/Kg	1		✱	6010D	Total/NA
Lead	9.44		4.96		mg/Kg	1		✱	6010D	Total/NA
Magnesium	7140		49.6		mg/Kg	1		✱	6010D	Total/NA
Manganese	464		2.48		mg/Kg	1		✱	6010D	Total/NA
Nickel	21.8		2.48		mg/Kg	1		✱	6010D	Total/NA
Potassium	1560		99.2		mg/Kg	1		✱	6010D	Total/NA
Sodium	171		99.2		mg/Kg	1		✱	6010D	Total/NA
Vanadium	40.1		2.48		mg/Kg	1		✱	6010D	Total/NA
Zinc	51.7		4.96		mg/Kg	1		✱	6010D	Total/NA
Mercury	1.03		0.180		mg/Kg	10		✱	7471B	Total/NA

Client Sample ID: SB5 (0-3)

Lab Sample ID: 310-269966-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	10900		26.1		mg/Kg	1		✱	6010D	Total/NA
Arsenic	11.7		4.18		mg/Kg	1		✱	6010D	Total/NA
Barium	345		1.04		mg/Kg	1		✱	6010D	Total/NA
Beryllium	1.19		0.522		mg/Kg	1		✱	6010D	Total/NA
Calcium	5080		104		mg/Kg	1		✱	6010D	Total/NA
Chromium	22.2		1.04		mg/Kg	1		✱	6010D	Total/NA
Cobalt	16.4		1.04		mg/Kg	1		✱	6010D	Total/NA
Copper	16.8		1.04		mg/Kg	1		✱	6010D	Total/NA
Iron	19000		52.2		mg/Kg	1		✱	6010D	Total/NA
Lead	10.9		5.22		mg/Kg	1		✱	6010D	Total/NA
Magnesium	2630		52.2		mg/Kg	1		✱	6010D	Total/NA
Manganese	1410		2.61		mg/Kg	1		✱	6010D	Total/NA
Nickel	35.8		2.61		mg/Kg	1		✱	6010D	Total/NA
Potassium	1430		104		mg/Kg	1		✱	6010D	Total/NA
Sodium	147		104		mg/Kg	1		✱	6010D	Total/NA
Vanadium	56.0		2.61		mg/Kg	1		✱	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB5 (0-3) (Continued)

Lab Sample ID: 310-269966-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Zinc	61.7		5.22		mg/Kg	1		✱	6010D	Total/NA
Mercury	0.0723		0.0199		mg/Kg	1		✱	7471B	Total/NA

Client Sample ID: SB5 (18-20)

Lab Sample ID: 310-269966-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	2880		23.6		mg/Kg	1		✱	6010D	Total/NA
Arsenic	8.12		3.78		mg/Kg	1		✱	6010D	Total/NA
Barium	82.2		0.944		mg/Kg	1		✱	6010D	Total/NA
Beryllium	0.554		0.472		mg/Kg	1		✱	6010D	Total/NA
Calcium	35600		94.4		mg/Kg	1		✱	6010D	Total/NA
Chromium	8.02		0.944		mg/Kg	1		✱	6010D	Total/NA
Cobalt	4.16		0.944		mg/Kg	1		✱	6010D	Total/NA
Copper	7.85		0.944		mg/Kg	1		✱	6010D	Total/NA
Iron	12600		47.2		mg/Kg	1		✱	6010D	Total/NA
Lead	5.46		4.72		mg/Kg	1		✱	6010D	Total/NA
Magnesium	6030		47.2		mg/Kg	1		✱	6010D	Total/NA
Manganese	245		2.36		mg/Kg	1		✱	6010D	Total/NA
Nickel	13.3		2.36		mg/Kg	1		✱	6010D	Total/NA
Potassium	686		94.4		mg/Kg	1		✱	6010D	Total/NA
Sodium	167		94.4		mg/Kg	1		✱	6010D	Total/NA
Vanadium	23.4		2.36		mg/Kg	1		✱	6010D	Total/NA
Zinc	40.0		4.72		mg/Kg	1		✱	6010D	Total/NA
Mercury	0.0500		0.0207		mg/Kg	1		✱	7471B	Total/NA

Client Sample ID: GW2A

Lab Sample ID: 310-269966-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	2.91		0.0500		mg/L	1			6020B	Total/NA
Arsenic	0.00761		0.00200		mg/L	1			6020B	Total/NA
Barium	0.135		0.00200		mg/L	1			6020B	Total/NA
Cadmium	0.00387		0.000200		mg/L	1			6020B	Total/NA
Calcium	1040		2.00		mg/L	4			6020B	Total/NA
Chromium	0.0286		0.00500		mg/L	1			6020B	Total/NA
Cobalt	0.0247		0.000500		mg/L	1			6020B	Total/NA
Copper	0.0309		0.00500		mg/L	1			6020B	Total/NA
Iron	32.0		0.100		mg/L	1			6020B	Total/NA
Lead	0.00817		0.000500		mg/L	1			6020B	Total/NA
Magnesium	130		2.00		mg/L	4			6020B	Total/NA
Manganese	5.16		0.0400		mg/L	4			6020B	Total/NA
Nickel	0.0789		0.00500		mg/L	1			6020B	Total/NA
Potassium	6.17		0.500		mg/L	1			6020B	Total/NA
Sodium	72.4		1.00		mg/L	1			6020B	Total/NA
Vanadium	0.0189		0.00500		mg/L	1			6020B	Total/NA
Zinc	0.0991		0.0200		mg/L	1			6020B	Total/NA
Barium	0.0380		0.00200		mg/L	1			6020B	Dissolved
Calcium	434		0.500		mg/L	1			6020B	Dissolved
Cobalt	0.0108		0.000500		mg/L	1			6020B	Dissolved
Iron	9.17		0.100		mg/L	1			6020B	Dissolved
Magnesium	98.9		2.00		mg/L	4			6020B	Dissolved
Manganese	2.62		0.0100		mg/L	1			6020B	Dissolved
Nickel	0.0282		0.00500		mg/L	1			6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: GW2A (Continued)

Lab Sample ID: 310-269966-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	5.20		0.500		mg/L	1		6020B	Dissolved
Sodium	71.7		1.00		mg/L	1		6020B	Dissolved
Zinc	0.0228		0.0200		mg/L	1		6020B	Dissolved

Client Sample ID: GW2B

Lab Sample ID: 310-269966-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	2.73		0.0500		mg/L	1		6020B	Total/NA
Arsenic	0.00719		0.00200		mg/L	1		6020B	Total/NA
Barium	0.131		0.00200		mg/L	1		6020B	Total/NA
Cadmium	0.00289		0.000200		mg/L	1		6020B	Total/NA
Calcium	971		2.00		mg/L	4		6020B	Total/NA
Chromium	0.0389		0.00500		mg/L	1		6020B	Total/NA
Cobalt	0.0241		0.000500		mg/L	1		6020B	Total/NA
Copper	0.0311		0.00500		mg/L	1		6020B	Total/NA
Iron	54.5		0.100		mg/L	1		6020B	Total/NA
Lead	0.00778		0.000500		mg/L	1		6020B	Total/NA
Magnesium	124		2.00		mg/L	4		6020B	Total/NA
Manganese	5.23		0.0400		mg/L	4		6020B	Total/NA
Nickel	0.107		0.00500		mg/L	1		6020B	Total/NA
Potassium	6.59		0.500		mg/L	1		6020B	Total/NA
Sodium	71.7		1.00		mg/L	1		6020B	Total/NA
Vanadium	0.0169		0.00500		mg/L	1		6020B	Total/NA
Zinc	0.126		0.0200		mg/L	1		6020B	Total/NA
Barium	0.137		0.00800		mg/L	4		6020B	Dissolved
Calcium	1460		2.00		mg/L	4		6020B	Dissolved
Cobalt	0.0374		0.00200		mg/L	4		6020B	Dissolved
Iron	39.8		0.400		mg/L	4		6020B	Dissolved
Magnesium	336		2.00		mg/L	4		6020B	Dissolved
Manganese	9.11		0.0400		mg/L	4		6020B	Dissolved
Nickel	0.125		0.0200		mg/L	4		6020B	Dissolved
Potassium	17.7		2.00		mg/L	4		6020B	Dissolved
Sodium	239		4.00		mg/L	4		6020B	Dissolved
Zinc	0.105		0.0800		mg/L	4		6020B	Dissolved

Client Sample ID: GW3

Lab Sample ID: 310-269966-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	4.14		0.0500		mg/L	1		6020B	Total/NA
Arsenic	0.276		0.00200		mg/L	1		6020B	Total/NA
Barium	4.87		0.0200		mg/L	10		6020B	Total/NA
Beryllium	0.00827		0.00100		mg/L	1		6020B	Total/NA
Cadmium	0.00189		0.000200		mg/L	1		6020B	Total/NA
Calcium	318		0.500		mg/L	1		6020B	Total/NA
Chromium	0.00632		0.00500		mg/L	1		6020B	Total/NA
Cobalt	0.326		0.000500		mg/L	1		6020B	Total/NA
Copper	0.00881		0.00500		mg/L	1		6020B	Total/NA
Iron	181		1.00		mg/L	10		6020B	Total/NA
Lead	0.0685		0.000500		mg/L	1		6020B	Total/NA
Magnesium	58.6		0.500		mg/L	1		6020B	Total/NA
Manganese	33.9		0.100		mg/L	10		6020B	Total/NA
Nickel	0.163		0.00500		mg/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: Tetra Tech EM Inc.

Job ID: 310-269966-1

Project/Site: Cameron City Park Site, Cameron MO

Client Sample ID: GW3 (Continued)

Lab Sample ID: 310-269966-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	3.52		0.500		mg/L	1		6020B	Total/NA
Sodium	54.4		1.00		mg/L	1		6020B	Total/NA
Vanadium	0.237		0.00500		mg/L	1		6020B	Total/NA
Zinc	0.0592		0.0200		mg/L	1		6020B	Total/NA
Arsenic	0.187		0.00200		mg/L	1		6020B	Dissolved
Barium	1.37		0.00200		mg/L	1		6020B	Dissolved
Calcium	197		0.500		mg/L	1		6020B	Dissolved
Cobalt	0.0507		0.000500		mg/L	1		6020B	Dissolved
Iron	49.9		0.100		mg/L	1		6020B	Dissolved
Magnesium	42.5		0.500		mg/L	1		6020B	Dissolved
Manganese	16.5		0.0700		mg/L	7		6020B	Dissolved
Nickel	0.0148		0.00500		mg/L	1		6020B	Dissolved
Potassium	2.14		0.500		mg/L	1		6020B	Dissolved
Sodium	55.3		1.00		mg/L	1		6020B	Dissolved

Client Sample ID: FB1

Lab Sample ID: 310-269966-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.00473		0.00200		mg/L	1		6020B	Total/NA
Calcium	0.836		0.500		mg/L	1		6020B	Total/NA
Iron	0.240		0.100		mg/L	1		6020B	Total/NA
Manganese	0.0382		0.0100		mg/L	1		6020B	Total/NA
Manganese	0.0210		0.0100		mg/L	1		6020B	Dissolved

Client Sample ID: GW4

Lab Sample ID: 310-269966-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	6.22		0.0500		mg/L	1		6020B	Total/NA
Arsenic	0.0136		0.00200		mg/L	1		6020B	Total/NA
Barium	0.196		0.00200		mg/L	1		6020B	Total/NA
Beryllium	0.00113		0.00100		mg/L	1		6020B	Total/NA
Cadmium	0.00207		0.000200		mg/L	1		6020B	Total/NA
Calcium	983		2.00		mg/L	4		6020B	Total/NA
Chromium	0.0284		0.00500		mg/L	1		6020B	Total/NA
Cobalt	0.0196		0.000500		mg/L	1		6020B	Total/NA
Copper	0.0181		0.00500		mg/L	1		6020B	Total/NA
Iron	15.7		0.100		mg/L	1		6020B	Total/NA
Lead	0.0150		0.000500		mg/L	1		6020B	Total/NA
Magnesium	78.5		0.500		mg/L	1		6020B	Total/NA
Manganese	8.10		0.0400		mg/L	4		6020B	Total/NA
Nickel	0.0355		0.00500		mg/L	1		6020B	Total/NA
Potassium	7.07		0.500		mg/L	1		6020B	Total/NA
Selenium	0.00617		0.00500		mg/L	1		6020B	Total/NA
Sodium	46.0		1.00		mg/L	1		6020B	Total/NA
Vanadium	0.0505		0.00500		mg/L	1		6020B	Total/NA
Zinc	0.0453		0.0200		mg/L	1		6020B	Total/NA
Arsenic	0.00543		0.00200		mg/L	1		6020B	Dissolved
Barium	0.0399		0.00200		mg/L	1		6020B	Dissolved
Calcium	207		0.500		mg/L	1		6020B	Dissolved
Cobalt	0.00303		0.000500		mg/L	1		6020B	Dissolved
Iron	0.924		0.100		mg/L	1		6020B	Dissolved
Magnesium	42.8		0.500		mg/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: GW4 (Continued) Lab Sample ID: 310-269966-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	1.93		0.0100		mg/L	1		6020B	Dissolved
Potassium	4.92		0.500		mg/L	1		6020B	Dissolved
Sodium	43.7		1.00		mg/L	1		6020B	Dissolved

Client Sample ID: FB2 Lab Sample ID: 310-269966-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	1.22		0.500		mg/L	1		6020B	Total/NA

Client Sample ID: EB1 Lab Sample ID: 310-269966-18

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB1 (0-3)

Lab Sample ID: 310-269966-1

Date Collected: 11/16/23 09:40

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
1,1,1-Trichloroethane	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
1,1,2,2-Tetrachloroethane	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
1,1,2-Trichloroethane	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
1,1-Dichloroethane	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
1,1-Dichloroethene	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
1,1-Dichloropropene	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
1,2,3-Trichlorobenzene	<9.38		9.38		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
1,2,3-Trichloropropane	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
1,2,4-Trichlorobenzene	<9.38		9.38		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
1,2,4-Trimethylbenzene	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
1,2-Dibromo-3-chloropropane	<9.38		9.38		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
1,2-Dibromoethane (EDB)	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
1,2-Dichlorobenzene	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
1,2-Dichloroethane	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
1,2-Dichloropropane	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
1,3,5-Trimethylbenzene	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
1,3-Dichlorobenzene	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
1,3-Dichloropropane	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
1,4-Dichlorobenzene	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
2,2-Dichloropropane	<18.8		18.8		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
2-Butanone (MEK)	<18.8		18.8		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
2-Chlorotoluene	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
4-Chlorotoluene	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
Acetone	<46.9		46.9		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
Benzene	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
Bromobenzene	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
Bromochloromethane	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
Bromodichloromethane	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
Bromoform	<9.38		9.38		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
Bromomethane	<18.8		18.8		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
Carbon disulfide	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
Carbon tetrachloride	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
Chlorobenzene	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
Chlorodibromomethane	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
Chloroethane	<18.8		18.8		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
Chloroform	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
Chloromethane	<18.8		18.8		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
cis-1,2-Dichloroethene	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
cis-1,3-Dichloropropene	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
Dibromomethane	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
Dichlorodifluoromethane	<14.1		14.1		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
Ethylbenzene	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
Hexachlorobutadiene	<23.5		23.5		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
Hexane	<23.5		23.5		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
Isopropylbenzene	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
Methyl tert-butyl ether	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
Methylene chloride	<46.9		46.9		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
Naphthalene	<23.5		23.5		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB1 (0-3)

Lab Sample ID: 310-269966-1

Date Collected: 11/16/23 09:40

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
n-Propylbenzene	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
p-Isopropyltoluene	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
sec-Butylbenzene	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
Styrene	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
tert-Butylbenzene	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
Tetrachloroethene	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
Toluene	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
trans-1,2-Dichloroethene	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
trans-1,3-Dichloropropene	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
Trichloroethene	<4.69		4.69		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
Trichlorofluoromethane	<18.8		18.8		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
Vinyl chloride	<9.38		9.38		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
Xylenes, Total	<9.38		9.38		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1
TPH-GRO (C6-C10)	<1880		1880		ug/Kg	☼	11/30/23 09:01	11/30/23 22:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	110		80 - 131	11/30/23 09:01	11/30/23 22:01	1
Toluene-d8 (Surr)	91		80 - 120	11/30/23 09:01	11/30/23 22:01	1
4-Bromofluorobenzene (Surr)	93		78 - 120	11/30/23 09:01	11/30/23 22:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<231		231		ug/Kg	☼	11/28/23 09:37	11/30/23 20:13	1
1,2-Dichlorobenzene	<231		231		ug/Kg	☼	11/28/23 09:37	11/30/23 20:13	1
1,3-Dichlorobenzene	<231		231		ug/Kg	☼	11/28/23 09:37	11/30/23 20:13	1
1,4-Dichlorobenzene	<231		231		ug/Kg	☼	11/28/23 09:37	11/30/23 20:13	1
2,4,5-Trichlorophenol	<231		231		ug/Kg	☼	11/28/23 09:37	11/30/23 20:13	1
2,4,6-Trichlorophenol	<231		231		ug/Kg	☼	11/28/23 09:37	11/30/23 20:13	1
2,4-Dichlorophenol	<231		231		ug/Kg	☼	11/28/23 09:37	11/30/23 20:13	1
2,4-Dimethylphenol	<231		231		ug/Kg	☼	11/28/23 09:37	11/30/23 20:13	1
2,4-Dinitrophenol	<463		463		ug/Kg	☼	11/28/23 09:37	11/30/23 20:13	1
2,4-Dinitrotoluene	<231		231		ug/Kg	☼	11/28/23 09:37	11/30/23 20:13	1
2,6-Dinitrotoluene	<231		231		ug/Kg	☼	11/28/23 09:37	11/30/23 20:13	1
2-Chloronaphthalene	<231		231		ug/Kg	☼	11/28/23 09:37	11/30/23 20:13	1
2-Chlorophenol	<231		231		ug/Kg	☼	11/28/23 09:37	11/30/23 20:13	1
2-Methylnaphthalene	<231		231		ug/Kg	☼	11/28/23 09:37	11/30/23 20:13	1
2-Methylphenol	<231		231		ug/Kg	☼	11/28/23 09:37	11/30/23 20:13	1
2-Nitroaniline	<231		231		ug/Kg	☼	11/28/23 09:37	11/30/23 20:13	1
2-Nitrophenol	<231		231		ug/Kg	☼	11/28/23 09:37	11/30/23 20:13	1
3,3'-Dichlorobenzidine	<463		463		ug/Kg	☼	11/28/23 09:37	11/30/23 20:13	1
3-Nitroaniline	<231		231		ug/Kg	☼	11/28/23 09:37	11/30/23 20:13	1
4,6-Dinitro-2-methylphenol	<231		231		ug/Kg	☼	11/28/23 09:37	11/30/23 20:13	1
4-Bromophenyl phenyl ether	<231		231		ug/Kg	☼	11/28/23 09:37	11/30/23 20:13	1
4-Chloro-3-methylphenol	<231		231		ug/Kg	☼	11/28/23 09:37	11/30/23 20:13	1
4-Chloroaniline	<231		231		ug/Kg	☼	11/28/23 09:37	11/30/23 20:13	1
4-Chlorophenyl phenyl ether	<231		231		ug/Kg	☼	11/28/23 09:37	11/30/23 20:13	1
4-Methylphenol (and/or 3-Methylphenol)	<231		231		ug/Kg	☼	11/28/23 09:37	11/30/23 20:13	1
4-Nitroaniline	<231		231		ug/Kg	☼	11/28/23 09:37	11/30/23 20:13	1

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Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB1 (0-3)

Lab Sample ID: 310-269966-1

Date Collected: 11/16/23 09:40

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<231		231		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
Acenaphthene	<231		231		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
Acenaphthylene	<231		231		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
Anthracene	<231		231		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
Benzidine	<463		463		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
Benzo(a)anthracene	<231		231		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
Benzo(a)pyrene	<231		231		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
Benzo(b)fluoranthene	<231		231		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
Benzo(g,h,i)perylene	<231		231		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
Benzo(k)fluoranthene	<231		231		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
Benzoic acid	<1160		1160		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
Benzyl alcohol	<231		231		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
Bis(2-chloroethoxy)methane	<231		231		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
Bis(2-chloroethyl)ether	<231		231		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
bis(2-chloroisopropyl) ether	<231		231		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
Bis(2-ethylhexyl) phthalate	<231		231		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
Butyl benzyl phthalate	<231		231		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
Carbazole	<231		231		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
Chrysene	<231		231		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
Dibenzo(a,h)anthracene	<231		231		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
Dibenzofuran	<231		231		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
Diethyl phthalate	<231		231		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
Dimethyl phthalate	<231		231		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
Di-n-butyl phthalate	<231		231		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
Di-n-octyl phthalate	<231		231		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
Fluoranthene	<231		231		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
Fluorene	<231		231		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
Hexachlorobenzene	<231		231		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
Hexachlorobutadiene	<231		231		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
Hexachlorocyclopentadiene	<463		463		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
Hexachloroethane	<231		231		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
Indeno(1,2,3-cd)pyrene	<231		231		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
Isophorone	<231		231		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
Naphthalene	<231		231		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
Nitrobenzene	<231		231		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
N-Nitrosodimethylamine	<231		231		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
N-Nitrosodi-n-propylamine	<231		231		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
N-Nitrosodiphenylamine	<231		231		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
Pentachlorophenol	<231		231		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
Phenanthrene	<231		231		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
Phenol	<231		231		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
Pyrene	<231		231		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
Pyridine	<231		231		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
Total Cresols	<231		231		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
TPH-DRO (C10-C21)	<17300		17300		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
TPH-ORO (C21-C35)	<17300	*	17300		ug/Kg	✱	11/28/23 09:37	11/30/23 20:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	63		18 - 126				11/28/23 09:37	11/30/23 20:13	1
Phenol-d5 (Surr)	65		25 - 119				11/28/23 09:37	11/30/23 20:13	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB1 (0-3)

Lab Sample ID: 310-269966-1

Date Collected: 11/16/23 09:40

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 84.3

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	66		15 - 131	11/28/23 09:37	11/30/23 20:13	1
2-Fluorobiphenyl (Surr)	57		28 - 116	11/28/23 09:37	11/30/23 20:13	1
2,4,6-Tribromophenol (Surr)	67		10 - 121	11/28/23 09:37	11/30/23 20:13	1
Terphenyl-d14 (Surr)	57		24 - 132	11/28/23 09:37	11/30/23 20:13	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	19400		26.8		mg/Kg	☆	11/29/23 09:27	12/06/23 10:52	1
Antimony	<5.36	F1	5.36		mg/Kg	☆	11/29/23 09:27	12/06/23 10:52	1
Arsenic	8.46		4.29		mg/Kg	☆	11/29/23 09:27	12/06/23 10:52	1
Barium	147		1.07		mg/Kg	☆	11/29/23 09:27	12/06/23 10:52	1
Beryllium	1.42		0.536		mg/Kg	☆	11/29/23 09:27	12/06/23 10:52	1
Cadmium	<1.07		1.07		mg/Kg	☆	11/29/23 09:27	12/06/23 10:52	1
Calcium	4620		107		mg/Kg	☆	11/29/23 09:27	12/06/23 10:52	1
Chromium	21.0		1.07		mg/Kg	☆	11/29/23 09:27	12/06/23 10:52	1
Cobalt	11.5		1.07		mg/Kg	☆	11/29/23 09:27	12/06/23 10:52	1
Copper	8.13		1.07		mg/Kg	☆	11/29/23 09:27	12/06/23 10:52	1
Iron	18200		53.6		mg/Kg	☆	11/29/23 09:27	12/06/23 10:52	1
Lead	17.0		5.36		mg/Kg	☆	11/29/23 09:27	12/06/23 10:52	1
Magnesium	2200		53.6		mg/Kg	☆	11/29/23 09:27	12/06/23 10:52	1
Manganese	634		2.68		mg/Kg	☆	11/29/23 09:27	12/06/23 10:52	1
Nickel	15.0		2.68		mg/Kg	☆	11/29/23 09:27	12/06/23 10:52	1
Potassium	1240		107		mg/Kg	☆	11/29/23 09:27	12/06/23 10:52	1
Selenium	<5.36		5.36		mg/Kg	☆	11/29/23 09:27	12/06/23 10:52	1
Silver	<1.07		1.07		mg/Kg	☆	11/29/23 09:27	12/06/23 10:52	1
Sodium	<107		107		mg/Kg	☆	11/29/23 09:27	12/06/23 10:52	1
Thallium	<5.36		5.36		mg/Kg	☆	11/29/23 09:27	12/06/23 10:52	1
Vanadium	49.9		2.68		mg/Kg	☆	11/29/23 09:27	12/06/23 10:52	1
Zinc	33.7		5.36		mg/Kg	☆	11/29/23 09:27	12/06/23 10:52	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0354		0.0234		mg/Kg	☆	11/22/23 10:53	11/28/23 14:35	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	15.7		0.1		%			11/20/23 08:50	1
Percent Solids (EPA Moisture)	84.3		0.1		%			11/20/23 08:50	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB1 (22-25)

Lab Sample ID: 310-269966-2

Date Collected: 11/16/23 09:50

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
1,1,1-Trichloroethane	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
1,1,2,2-Tetrachloroethane	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
1,1,2-Trichloroethane	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
1,1-Dichloroethane	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
1,1-Dichloroethene	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
1,1-Dichloropropene	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
1,2,3-Trichlorobenzene	<7.64		7.64		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
1,2,3-Trichloropropane	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
1,2,4-Trichlorobenzene	<7.64		7.64		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
1,2,4-Trimethylbenzene	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
1,2-Dibromo-3-chloropropane	<7.64		7.64		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
1,2-Dibromoethane (EDB)	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
1,2-Dichlorobenzene	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
1,2-Dichloroethane	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
1,2-Dichloropropane	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
1,3,5-Trimethylbenzene	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
1,3-Dichlorobenzene	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
1,3-Dichloropropane	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
1,4-Dichlorobenzene	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
2,2-Dichloropropane	<15.3		15.3		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
2-Butanone (MEK)	<15.3		15.3		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
2-Chlorotoluene	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
4-Chlorotoluene	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
Acetone	<38.2		38.2		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
Benzene	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
Bromobenzene	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
Bromochloromethane	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
Bromodichloromethane	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
Bromoform	<7.64		7.64		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
Bromomethane	<15.3		15.3		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
Carbon disulfide	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
Carbon tetrachloride	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
Chlorobenzene	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
Chlorodibromomethane	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
Chloroethane	<15.3		15.3		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
Chloroform	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
Chloromethane	<15.3		15.3		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
cis-1,2-Dichloroethene	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
cis-1,3-Dichloropropene	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
Dibromomethane	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
Dichlorodifluoromethane	<11.5		11.5		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
Ethylbenzene	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
Hexachlorobutadiene	<19.1		19.1		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
Hexane	<19.1		19.1		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
Isopropylbenzene	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
Methyl tert-butyl ether	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
Methylene chloride	<38.2		38.2		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
Naphthalene	<19.1		19.1		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB1 (22-25)

Lab Sample ID: 310-269966-2

Date Collected: 11/16/23 09:50

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
n-Propylbenzene	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
p-Isopropyltoluene	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
sec-Butylbenzene	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
Styrene	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
tert-Butylbenzene	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
Tetrachloroethene	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
Toluene	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
trans-1,2-Dichloroethene	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
trans-1,3-Dichloropropene	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
Trichloroethene	<3.82		3.82		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
Trichlorofluoromethane	<15.3		15.3		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
Vinyl chloride	<7.64		7.64		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
Xylenes, Total	<7.64		7.64		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1
TPH-GRO (C6-C10)	<1530		1530		ug/Kg	✱	11/30/23 09:01	11/30/23 16:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	105		80 - 131	11/30/23 09:01	11/30/23 16:22	1
Toluene-d8 (Surr)	94		80 - 120	11/30/23 09:01	11/30/23 16:22	1
4-Bromofluorobenzene (Surr)	100		78 - 120	11/30/23 09:01	11/30/23 16:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
1,2-Dichlorobenzene	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
1,3-Dichlorobenzene	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
1,4-Dichlorobenzene	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
2,4,5-Trichlorophenol	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
2,4,6-Trichlorophenol	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
2,4-Dichlorophenol	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
2,4-Dimethylphenol	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
2,4-Dinitrophenol	<469		469		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
2,4-Dinitrotoluene	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
2,6-Dinitrotoluene	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
2-Chloronaphthalene	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
2-Chlorophenol	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
2-Methylnaphthalene	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
2-Methylphenol	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
2-Nitroaniline	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
2-Nitrophenol	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
3,3'-Dichlorobenzidine	<469		469		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
3-Nitroaniline	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
4,6-Dinitro-2-methylphenol	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
4-Bromophenyl phenyl ether	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
4-Chloro-3-methylphenol	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
4-Chloroaniline	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
4-Chlorophenyl phenyl ether	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
4-Methylphenol (and/or 3-Methylphenol)	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
4-Nitroaniline	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB1 (22-25)

Lab Sample ID: 310-269966-2

Date Collected: 11/16/23 09:50

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
Acenaphthene	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
Acenaphthylene	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
Anthracene	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
Benzidine	<469		469		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
Benzo(a)anthracene	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
Benzo(a)pyrene	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
Benzo(b)fluoranthene	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
Benzo(g,h,i)perylene	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
Benzo(k)fluoranthene	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
Benzoic acid	<1170		1170		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
Benzyl alcohol	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
Bis(2-chloroethoxy)methane	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
Bis(2-chloroethyl)ether	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
bis(2-chloroisopropyl) ether	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
Bis(2-ethylhexyl) phthalate	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
Butyl benzyl phthalate	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
Carbazole	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
Chrysene	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
Dibenzo(a,h)anthracene	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
Dibenzofuran	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
Diethyl phthalate	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
Dimethyl phthalate	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
Di-n-butyl phthalate	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
Di-n-octyl phthalate	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
Fluoranthene	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
Fluorene	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
Hexachlorobenzene	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
Hexachlorobutadiene	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
Hexachlorocyclopentadiene	<469		469		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
Hexachloroethane	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
Indeno(1,2,3-cd)pyrene	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
Isophorone	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
Naphthalene	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
Nitrobenzene	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
N-Nitrosodimethylamine	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
N-Nitrosodi-n-propylamine	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
N-Nitrosodiphenylamine	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
Pentachlorophenol	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
Phenanthrene	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
Phenol	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
Pyrene	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
Pyridine	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
Total Cresols	<234		234		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
TPH-DRO (C10-C21)	<17600		17600		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1
TPH-ORO (C21-C35)	<17600	-	17600		ug/Kg	✱	11/28/23 09:37	11/30/23 20:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	68		18 - 126	11/28/23 09:37	11/30/23 20:40	1
Phenol-d5 (Surr)	70		25 - 119	11/28/23 09:37	11/30/23 20:40	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB1 (22-25)

Lab Sample ID: 310-269966-2

Date Collected: 11/16/23 09:50

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 82.9

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	76		15 - 131	11/28/23 09:37	11/30/23 20:40	1
2-Fluorobiphenyl (Surr)	63		28 - 116	11/28/23 09:37	11/30/23 20:40	1
2,4,6-Tribromophenol (Surr)	69		10 - 121	11/28/23 09:37	11/30/23 20:40	1
Terphenyl-d14 (Surr)	67		24 - 132	11/28/23 09:37	11/30/23 20:40	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9390		47.7		mg/Kg	☆	11/29/23 09:27	12/06/23 11:39	2
Antimony	<9.54		9.54		mg/Kg	☆	11/29/23 09:27	12/06/23 11:39	2
Arsenic	11.3		7.63		mg/Kg	☆	11/29/23 09:27	12/06/23 11:39	2
Barium	78.0		1.91		mg/Kg	☆	11/29/23 09:27	12/06/23 11:39	2
Beryllium	1.24		0.954		mg/Kg	☆	11/29/23 09:27	12/06/23 11:39	2
Cadmium	<1.91		1.91		mg/Kg	☆	11/29/23 09:27	12/06/23 11:39	2
Calcium	43300		191		mg/Kg	☆	11/29/23 09:27	12/06/23 11:39	2
Chromium	20.7		1.91		mg/Kg	☆	11/29/23 09:27	12/06/23 11:39	2
Cobalt	4.27		1.91		mg/Kg	☆	11/29/23 09:27	12/06/23 11:39	2
Copper	15.9		1.91		mg/Kg	☆	11/29/23 09:27	12/06/23 11:39	2
Iron	25600		95.4		mg/Kg	☆	11/29/23 09:27	12/06/23 11:39	2
Lead	10.2		9.54		mg/Kg	☆	11/29/23 09:27	12/06/23 11:39	2
Magnesium	5750		95.4		mg/Kg	☆	11/29/23 09:27	12/06/23 11:39	2
Manganese	149		4.77		mg/Kg	☆	11/29/23 09:27	12/06/23 11:39	2
Nickel	27.6		4.77		mg/Kg	☆	11/29/23 09:27	12/06/23 11:39	2
Potassium	1590		191		mg/Kg	☆	11/29/23 09:27	12/06/23 11:39	2
Selenium	<9.54		9.54		mg/Kg	☆	11/29/23 09:27	12/06/23 11:39	2
Silver	<1.91		1.91		mg/Kg	☆	11/29/23 09:27	12/06/23 11:39	2
Sodium	193		191		mg/Kg	☆	11/29/23 09:27	12/06/23 11:39	2
Thallium	<9.54		9.54		mg/Kg	☆	11/29/23 09:27	12/06/23 11:39	2
Vanadium	58.7		4.77		mg/Kg	☆	11/29/23 09:27	12/06/23 11:39	2
Zinc	56.6		9.54		mg/Kg	☆	11/29/23 09:27	12/06/23 11:39	2

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0186		0.0186		mg/Kg	☆	12/01/23 09:48	12/04/23 13:11	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	17.1		0.1		%			11/20/23 08:50	1
Percent Solids (EPA Moisture)	82.9		0.1		%			11/20/23 08:50	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB2 (0-3)

Lab Sample ID: 310-269966-3

Date Collected: 11/16/23 11:05

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 86.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<3.96		3.96		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
1,1,1-Trichloroethane	<3.96		3.96		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
1,1,2,2-Tetrachloroethane	<3.96		3.96		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
1,1,2-Trichloroethane	<3.96		3.96		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
1,1-Dichloroethane	<3.96		3.96		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
1,1-Dichloroethene	<3.96		3.96		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
1,1-Dichloropropene	<3.96		3.96		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
1,2,3-Trichlorobenzene	<7.91		7.91		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
1,2,3-Trichloropropane	<3.96		3.96		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
1,2,4-Trichlorobenzene	<7.91		7.91		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
1,2,4-Trimethylbenzene	<3.96		3.96		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
1,2-Dibromo-3-chloropropane	<7.91		7.91		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
1,2-Dibromoethane (EDB)	<3.96		3.96		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
1,2-Dichlorobenzene	<3.96		3.96		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
1,2-Dichloroethane	<3.96		3.96		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
1,2-Dichloropropane	<3.96		3.96		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
1,3,5-Trimethylbenzene	<3.96		3.96		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
1,3-Dichlorobenzene	<3.96		3.96		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
1,3-Dichloropropane	<3.96		3.96		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
1,4-Dichlorobenzene	<3.96		3.96		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
2,2-Dichloropropane	<15.8		15.8		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
2-Butanone (MEK)	<15.8		15.8		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
2-Chlorotoluene	<3.96		3.96		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
4-Chlorotoluene	<3.96		3.96		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
Acetone	<39.6		39.6		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
Benzene	<3.96		3.96		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
Bromobenzene	<3.96		3.96		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
Bromochloromethane	<3.96		3.96		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
Bromodichloromethane	<3.96		3.96		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
Bromoform	<7.91		7.91		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
Bromomethane	<15.8		15.8		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
Carbon disulfide	<3.96		3.96		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
Carbon tetrachloride	<3.96		3.96		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
Chlorobenzene	<3.96		3.96		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
Chlorodibromomethane	<3.96		3.96		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
Chloroethane	<15.8		15.8		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
Chloroform	<3.96		3.96		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
Chloromethane	<15.8		15.8		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
cis-1,2-Dichloroethene	<3.96		3.96		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
cis-1,3-Dichloropropene	<3.96		3.96		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
Dibromomethane	<3.96		3.96		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
Dichlorodifluoromethane	<11.9		11.9		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
Ethylbenzene	<3.96		3.96		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
Hexachlorobutadiene	<19.8		19.8		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
Hexane	<19.8		19.8		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
Isopropylbenzene	<3.96		3.96		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
Methyl tert-butyl ether	<3.96		3.96		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
Methylene chloride	<39.6		39.6		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1
Naphthalene	<19.8		19.8		ug/Kg	☼	11/30/23 09:01	11/30/23 16:46	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB2 (0-3)

Lab Sample ID: 310-269966-3

Date Collected: 11/16/23 11:05

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 86.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	<3.96		3.96		ug/Kg	✱	11/30/23 09:01	11/30/23 16:46	1
n-Propylbenzene	<3.96		3.96		ug/Kg	✱	11/30/23 09:01	11/30/23 16:46	1
p-Isopropyltoluene	<3.96		3.96		ug/Kg	✱	11/30/23 09:01	11/30/23 16:46	1
sec-Butylbenzene	<3.96		3.96		ug/Kg	✱	11/30/23 09:01	11/30/23 16:46	1
Styrene	<3.96		3.96		ug/Kg	✱	11/30/23 09:01	11/30/23 16:46	1
tert-Butylbenzene	<3.96		3.96		ug/Kg	✱	11/30/23 09:01	11/30/23 16:46	1
Tetrachloroethene	<3.96		3.96		ug/Kg	✱	11/30/23 09:01	11/30/23 16:46	1
Toluene	<3.96		3.96		ug/Kg	✱	11/30/23 09:01	11/30/23 16:46	1
trans-1,2-Dichloroethene	<3.96		3.96		ug/Kg	✱	11/30/23 09:01	11/30/23 16:46	1
trans-1,3-Dichloropropene	<3.96		3.96		ug/Kg	✱	11/30/23 09:01	11/30/23 16:46	1
Trichloroethene	<3.96		3.96		ug/Kg	✱	11/30/23 09:01	11/30/23 16:46	1
Trichlorofluoromethane	<15.8		15.8		ug/Kg	✱	11/30/23 09:01	11/30/23 16:46	1
Vinyl chloride	<7.91		7.91		ug/Kg	✱	11/30/23 09:01	11/30/23 16:46	1
Xylenes, Total	<7.91		7.91		ug/Kg	✱	11/30/23 09:01	11/30/23 16:46	1
TPH-GRO (C6-C10)	<1580		1580		ug/Kg	✱	11/30/23 09:01	11/30/23 16:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	106		80 - 131	11/30/23 09:01	11/30/23 16:46	1
Toluene-d8 (Surr)	96		80 - 120	11/30/23 09:01	11/30/23 16:46	1
4-Bromofluorobenzene (Surr)	97		78 - 120	11/30/23 09:01	11/30/23 16:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
1,2-Dichlorobenzene	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
1,3-Dichlorobenzene	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
1,4-Dichlorobenzene	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
2,4,5-Trichlorophenol	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
2,4,6-Trichlorophenol	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
2,4-Dichlorophenol	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
2,4-Dimethylphenol	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
2,4-Dinitrophenol	<434		434		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
2,4-Dinitrotoluene	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
2,6-Dinitrotoluene	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
2-Chloronaphthalene	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
2-Chlorophenol	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
2-Methylnaphthalene	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
2-Methylphenol	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
2-Nitroaniline	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
2-Nitrophenol	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
3,3'-Dichlorobenzidine	<434		434		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
3-Nitroaniline	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
4,6-Dinitro-2-methylphenol	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
4-Bromophenyl phenyl ether	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
4-Chloro-3-methylphenol	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
4-Chloroaniline	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
4-Chlorophenyl phenyl ether	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
4-Methylphenol (and/or 3-Methylphenol)	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
4-Nitroaniline	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB2 (0-3)

Lab Sample ID: 310-269966-3

Date Collected: 11/16/23 11:05

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 86.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
Acenaphthene	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
Acenaphthylene	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
Anthracene	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
Benzidine	<434		434		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
Benzo(a)anthracene	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
Benzo(a)pyrene	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
Benzo(b)fluoranthene	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
Benzo(g,h,i)perylene	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
Benzo(k)fluoranthene	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
Benzoic acid	<1080		1080		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
Benzyl alcohol	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
Bis(2-chloroethoxy)methane	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
Bis(2-chloroethyl)ether	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
bis(2-chloroisopropyl) ether	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
Bis(2-ethylhexyl) phthalate	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
Butyl benzyl phthalate	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
Carbazole	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
Chrysene	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
Dibenzo(a,h)anthracene	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
Dibenzofuran	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
Diethyl phthalate	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
Dimethyl phthalate	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
Di-n-butyl phthalate	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
Di-n-octyl phthalate	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
Fluoranthene	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
Fluorene	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
Hexachlorobenzene	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
Hexachlorobutadiene	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
Hexachlorocyclopentadiene	<434		434		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
Hexachloroethane	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
Indeno(1,2,3-cd)pyrene	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
Isophorone	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
Naphthalene	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
Nitrobenzene	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
N-Nitrosodimethylamine	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
N-Nitrosodi-n-propylamine	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
N-Nitrosodiphenylamine	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
Pentachlorophenol	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
Phenanthrene	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
Phenol	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
Pyrene	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
Pyridine	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
Total Cresols	<217		217		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
TPH-DRO (C10-C21)	<16300		16300		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1
TPH-ORO (C21-C35)	<16300	*	16300		ug/Kg	✱	11/28/23 09:37	11/30/23 21:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	74		18 - 126	11/28/23 09:37	11/30/23 21:06	1
Phenol-d5 (Surr)	75		25 - 119	11/28/23 09:37	11/30/23 21:06	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB2 (0-3)

Lab Sample ID: 310-269966-3

Date Collected: 11/16/23 11:05

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 86.6

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	78		15 - 131	11/28/23 09:37	11/30/23 21:06	1
2-Fluorobiphenyl (Surr)	68		28 - 116	11/28/23 09:37	11/30/23 21:06	1
2,4,6-Tribromophenol (Surr)	79		10 - 121	11/28/23 09:37	11/30/23 21:06	1
Terphenyl-d14 (Surr)	68		24 - 132	11/28/23 09:37	11/30/23 21:06	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	19200		25.3		mg/Kg	✱	11/29/23 09:27	12/06/23 11:09	1
Antimony	<5.07		5.07		mg/Kg	✱	11/29/23 09:27	12/06/23 11:09	1
Arsenic	8.09		4.05		mg/Kg	✱	11/29/23 09:27	12/06/23 11:09	1
Barium	170		1.01		mg/Kg	✱	11/29/23 09:27	12/06/23 11:09	1
Beryllium	1.30		0.507		mg/Kg	✱	11/29/23 09:27	12/06/23 11:09	1
Cadmium	<1.01		1.01		mg/Kg	✱	11/29/23 09:27	12/06/23 11:09	1
Calcium	10800		101		mg/Kg	✱	11/29/23 09:27	12/06/23 11:09	1
Chromium	22.1		1.01		mg/Kg	✱	11/29/23 09:27	12/06/23 11:09	1
Cobalt	9.98		1.01		mg/Kg	✱	11/29/23 09:27	12/06/23 11:09	1
Copper	10.5		1.01		mg/Kg	✱	11/29/23 09:27	12/06/23 11:09	1
Iron	19000		50.7		mg/Kg	✱	11/29/23 09:27	12/06/23 11:09	1
Lead	14.8		5.07		mg/Kg	✱	11/29/23 09:27	12/06/23 11:09	1
Magnesium	3090		50.7		mg/Kg	✱	11/29/23 09:27	12/06/23 11:09	1
Manganese	512		2.53		mg/Kg	✱	11/29/23 09:27	12/06/23 11:09	1
Nickel	19.1		2.53		mg/Kg	✱	11/29/23 09:27	12/06/23 11:09	1
Potassium	1360		101		mg/Kg	✱	11/29/23 09:27	12/06/23 11:09	1
Selenium	<5.07		5.07		mg/Kg	✱	11/29/23 09:27	12/06/23 11:09	1
Silver	<1.01		1.01		mg/Kg	✱	11/29/23 09:27	12/06/23 11:09	1
Sodium	<101		101		mg/Kg	✱	11/29/23 09:27	12/06/23 11:09	1
Thallium	<5.07		5.07		mg/Kg	✱	11/29/23 09:27	12/06/23 11:09	1
Vanadium	49.4		2.53		mg/Kg	✱	11/29/23 09:27	12/06/23 11:09	1
Zinc	55.9		5.07		mg/Kg	✱	11/29/23 09:27	12/06/23 11:09	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0250		0.0174		mg/Kg	✱	12/01/23 09:48	12/04/23 13:13	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	13.4		0.1		%			11/20/23 08:50	1
Percent Solids (EPA Moisture)	86.6		0.1		%			11/20/23 08:50	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB2 (22-24)

Lab Sample ID: 310-269966-4

Date Collected: 11/16/23 11:15

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 92.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<3.58		3.58		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
1,1,1-Trichloroethane	<3.58		3.58		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
1,1,2,2-Tetrachloroethane	<3.58		3.58		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
1,1,2-Trichloroethane	<3.58		3.58		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
1,1-Dichloroethane	<3.58		3.58		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
1,1-Dichloroethene	<3.58		3.58		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
1,1-Dichloropropene	<3.58		3.58		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
1,2,3-Trichlorobenzene	<7.16		7.16		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
1,2,3-Trichloropropane	<3.58		3.58		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
1,2,4-Trichlorobenzene	<7.16		7.16		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
1,2,4-Trimethylbenzene	<3.58		3.58		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
1,2-Dibromo-3-chloropropane	<7.16		7.16		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
1,2-Dibromoethane (EDB)	<3.58		3.58		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
1,2-Dichlorobenzene	<3.58		3.58		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
1,2-Dichloroethane	<3.58		3.58		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
1,2-Dichloropropane	<3.58		3.58		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
1,3,5-Trimethylbenzene	<3.58		3.58		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
1,3-Dichlorobenzene	<3.58		3.58		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
1,3-Dichloropropane	<3.58		3.58		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
1,4-Dichlorobenzene	<3.58		3.58		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
2,2-Dichloropropane	<14.3		14.3		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
2-Butanone (MEK)	<14.3		14.3		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
2-Chlorotoluene	<3.58		3.58		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
4-Chlorotoluene	<3.58		3.58		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
Acetone	<35.8		35.8		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
Benzene	<3.58		3.58		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
Bromobenzene	<3.58		3.58		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
Bromochloromethane	<3.58		3.58		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
Bromodichloromethane	<3.58		3.58		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
Bromoform	<7.16		7.16		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
Bromomethane	<14.3		14.3		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
Carbon disulfide	<3.58		3.58		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
Carbon tetrachloride	<3.58		3.58		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
Chlorobenzene	<3.58		3.58		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
Chlorodibromomethane	<3.58		3.58		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
Chloroethane	<14.3		14.3		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
Chloroform	<3.58		3.58		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
Chloromethane	<14.3		14.3		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
cis-1,2-Dichloroethene	<3.58		3.58		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
cis-1,3-Dichloropropene	<3.58		3.58		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
Dibromomethane	<3.58		3.58		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
Dichlorodifluoromethane	<10.7		10.7		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
Ethylbenzene	<3.58		3.58		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
Hexachlorobutadiene	<17.9		17.9		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
Hexane	<17.9		17.9		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
Isopropylbenzene	<3.58		3.58		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
Methyl tert-butyl ether	<3.58		3.58		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
Methylene chloride	<35.8		35.8		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1
Naphthalene	<17.9		17.9		ug/Kg	☼	11/30/23 09:01	11/30/23 17:10	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB2 (22-24)

Lab Sample ID: 310-269966-4

Date Collected: 11/16/23 11:15

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 92.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	<3.58		3.58		ug/Kg	✱	11/30/23 09:01	11/30/23 17:10	1
n-Propylbenzene	<3.58		3.58		ug/Kg	✱	11/30/23 09:01	11/30/23 17:10	1
p-Isopropyltoluene	<3.58		3.58		ug/Kg	✱	11/30/23 09:01	11/30/23 17:10	1
sec-Butylbenzene	<3.58		3.58		ug/Kg	✱	11/30/23 09:01	11/30/23 17:10	1
Styrene	<3.58		3.58		ug/Kg	✱	11/30/23 09:01	11/30/23 17:10	1
tert-Butylbenzene	<3.58		3.58		ug/Kg	✱	11/30/23 09:01	11/30/23 17:10	1
Tetrachloroethene	<3.58		3.58		ug/Kg	✱	11/30/23 09:01	11/30/23 17:10	1
Toluene	<3.58		3.58		ug/Kg	✱	11/30/23 09:01	11/30/23 17:10	1
trans-1,2-Dichloroethene	<3.58		3.58		ug/Kg	✱	11/30/23 09:01	11/30/23 17:10	1
trans-1,3-Dichloropropene	<3.58		3.58		ug/Kg	✱	11/30/23 09:01	11/30/23 17:10	1
Trichloroethene	<3.58		3.58		ug/Kg	✱	11/30/23 09:01	11/30/23 17:10	1
Trichlorofluoromethane	<14.3		14.3		ug/Kg	✱	11/30/23 09:01	11/30/23 17:10	1
Vinyl chloride	<7.16		7.16		ug/Kg	✱	11/30/23 09:01	11/30/23 17:10	1
Xylenes, Total	<7.16		7.16		ug/Kg	✱	11/30/23 09:01	11/30/23 17:10	1
TPH-GRO (C6-C10)	<1430		1430		ug/Kg	✱	11/30/23 09:01	11/30/23 17:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	108		80 - 131	11/30/23 09:01	11/30/23 17:10	1
Toluene-d8 (Surr)	95		80 - 120	11/30/23 09:01	11/30/23 17:10	1
4-Bromofluorobenzene (Surr)	96		78 - 120	11/30/23 09:01	11/30/23 17:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
1,2-Dichlorobenzene	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
1,3-Dichlorobenzene	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
1,4-Dichlorobenzene	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
2,4,5-Trichlorophenol	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
2,4,6-Trichlorophenol	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
2,4-Dichlorophenol	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
2,4-Dimethylphenol	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
2,4-Dinitrophenol	<419		419		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
2,4-Dinitrotoluene	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
2,6-Dinitrotoluene	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
2-Chloronaphthalene	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
2-Chlorophenol	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
2-Methylnaphthalene	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
2-Methylphenol	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
2-Nitroaniline	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
2-Nitrophenol	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
3,3'-Dichlorobenzidine	<419		419		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
3-Nitroaniline	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
4,6-Dinitro-2-methylphenol	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
4-Bromophenyl phenyl ether	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
4-Chloro-3-methylphenol	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
4-Chloroaniline	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
4-Chlorophenyl phenyl ether	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
4-Methylphenol (and/or 3-Methylphenol)	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
4-Nitroaniline	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB2 (22-24)

Lab Sample ID: 310-269966-4

Date Collected: 11/16/23 11:15

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 92.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
Acenaphthene	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
Acenaphthylene	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
Anthracene	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
Benzidine	<419		419		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
Benzo(a)anthracene	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
Benzo(a)pyrene	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
Benzo(b)fluoranthene	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
Benzo(g,h,i)perylene	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
Benzo(k)fluoranthene	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
Benzoic acid	<1050		1050		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
Benzyl alcohol	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
Bis(2-chloroethoxy)methane	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
Bis(2-chloroethyl)ether	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
bis(2-chloroisopropyl) ether	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
Bis(2-ethylhexyl) phthalate	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
Butyl benzyl phthalate	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
Carbazole	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
Chrysene	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
Dibenzo(a,h)anthracene	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
Dibenzofuran	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
Diethyl phthalate	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
Dimethyl phthalate	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
Di-n-butyl phthalate	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
Di-n-octyl phthalate	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
Fluoranthene	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
Fluorene	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
Hexachlorobenzene	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
Hexachlorobutadiene	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
Hexachlorocyclopentadiene	<419		419		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
Hexachloroethane	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
Indeno(1,2,3-cd)pyrene	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
Isophorone	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
Naphthalene	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
Nitrobenzene	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
N-Nitrosodimethylamine	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
N-Nitrosodi-n-propylamine	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
N-Nitrosodiphenylamine	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
Pentachlorophenol	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
Phenanthrene	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
Phenol	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
Pyrene	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
Pyridine	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
Total Cresols	<209		209		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
TPH-DRO (C10-C21)	<15700		15700		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1
TPH-ORO (C21-C35)	<15700	*	15700		ug/Kg	✱	11/28/23 09:37	11/30/23 21:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	69		18 - 126	11/28/23 09:37	11/30/23 21:33	1
Phenol-d5 (Surr)	70		25 - 119	11/28/23 09:37	11/30/23 21:33	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB2 (22-24)

Lab Sample ID: 310-269966-4

Date Collected: 11/16/23 11:15

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 92.3

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	74		15 - 131	11/28/23 09:37	11/30/23 21:33	1
2-Fluorobiphenyl (Surr)	63		28 - 116	11/28/23 09:37	11/30/23 21:33	1
2,4,6-Tribromophenol (Surr)	68		10 - 121	11/28/23 09:37	11/30/23 21:33	1
Terphenyl-d14 (Surr)	66		24 - 132	11/28/23 09:37	11/30/23 21:33	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3100		21.3		mg/Kg	☆	11/29/23 09:27	12/06/23 11:11	1
Antimony	<4.27		4.27		mg/Kg	☆	11/29/23 09:27	12/06/23 11:11	1
Arsenic	7.88		3.41		mg/Kg	☆	11/29/23 09:27	12/06/23 11:11	1
Barium	126		0.853		mg/Kg	☆	11/29/23 09:27	12/06/23 11:11	1
Beryllium	0.571		0.427		mg/Kg	☆	11/29/23 09:27	12/06/23 11:11	1
Cadmium	<0.853		0.853		mg/Kg	☆	11/29/23 09:27	12/06/23 11:11	1
Calcium	29700		85.3		mg/Kg	☆	11/29/23 09:27	12/06/23 11:11	1
Chromium	9.06		0.853		mg/Kg	☆	11/29/23 09:27	12/06/23 11:11	1
Cobalt	4.56		0.853		mg/Kg	☆	11/29/23 09:27	12/06/23 11:11	1
Copper	6.74		0.853		mg/Kg	☆	11/29/23 09:27	12/06/23 11:11	1
Iron	12500		42.7		mg/Kg	☆	11/29/23 09:27	12/06/23 11:11	1
Lead	5.03		4.27		mg/Kg	☆	11/29/23 09:27	12/06/23 11:11	1
Magnesium	4160		42.7		mg/Kg	☆	11/29/23 09:27	12/06/23 11:11	1
Manganese	203		2.13		mg/Kg	☆	11/29/23 09:27	12/06/23 11:11	1
Nickel	13.0		2.13		mg/Kg	☆	11/29/23 09:27	12/06/23 11:11	1
Potassium	595		85.3		mg/Kg	☆	11/29/23 09:27	12/06/23 11:11	1
Selenium	<4.27		4.27		mg/Kg	☆	11/29/23 09:27	12/06/23 11:11	1
Silver	<0.853		0.853		mg/Kg	☆	11/29/23 09:27	12/06/23 11:11	1
Sodium	134		85.3		mg/Kg	☆	11/29/23 09:27	12/06/23 11:11	1
Thallium	<4.27		4.27		mg/Kg	☆	11/29/23 09:27	12/06/23 11:11	1
Vanadium	20.6		2.13		mg/Kg	☆	11/29/23 09:27	12/06/23 11:11	1
Zinc	32.2		4.27		mg/Kg	☆	11/29/23 09:27	12/06/23 11:11	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.70		0.361		mg/Kg	☆	12/06/23 09:36	12/07/23 10:24	20

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	7.7		0.1		%			11/20/23 08:50	1
Percent Solids (EPA Moisture)	92.3		0.1		%			11/20/23 08:50	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB3 (0-3)

Lab Sample ID: 310-269966-5

Date Collected: 11/16/23 12:55

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 87.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<3.80		3.80		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
1,1,1-Trichloroethane	<3.80		3.80		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
1,1,2,2-Tetrachloroethane	<3.80		3.80		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
1,1,2-Trichloroethane	<3.80		3.80		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
1,1-Dichloroethane	<3.80		3.80		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
1,1-Dichloroethene	<3.80		3.80		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
1,1-Dichloropropene	<3.80		3.80		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
1,2,3-Trichlorobenzene	<7.60		7.60		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
1,2,3-Trichloropropane	<3.80		3.80		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
1,2,4-Trichlorobenzene	<7.60		7.60		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
1,2,4-Trimethylbenzene	<3.80		3.80		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
1,2-Dibromo-3-chloropropane	<7.60		7.60		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
1,2-Dibromoethane (EDB)	<3.80		3.80		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
1,2-Dichlorobenzene	<3.80		3.80		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
1,2-Dichloroethane	<3.80		3.80		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
1,2-Dichloropropane	<3.80		3.80		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
1,3,5-Trimethylbenzene	<3.80		3.80		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
1,3-Dichlorobenzene	<3.80		3.80		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
1,3-Dichloropropane	<3.80		3.80		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
1,4-Dichlorobenzene	<3.80		3.80		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
2,2-Dichloropropane	<15.2		15.2		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
2-Butanone (MEK)	<15.2		15.2		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
2-Chlorotoluene	<3.80		3.80		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
4-Chlorotoluene	<3.80		3.80		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
Acetone	<38.0		38.0		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
Benzene	<3.80		3.80		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
Bromobenzene	<3.80		3.80		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
Bromochloromethane	<3.80		3.80		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
Bromodichloromethane	<3.80		3.80		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
Bromoform	<7.60		7.60		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
Bromomethane	<15.2		15.2		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
Carbon disulfide	<3.80		3.80		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
Carbon tetrachloride	<3.80		3.80		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
Chlorobenzene	<3.80		3.80		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
Chlorodibromomethane	<3.80		3.80		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
Chloroethane	<15.2		15.2		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
Chloroform	<3.80		3.80		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
Chloromethane	<15.2		15.2		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
cis-1,2-Dichloroethene	<3.80		3.80		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
cis-1,3-Dichloropropene	<3.80		3.80		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
Dibromomethane	<3.80		3.80		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
Dichlorodifluoromethane	<11.4		11.4		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
Ethylbenzene	<3.80		3.80		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
Hexachlorobutadiene	<19.0		19.0		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
Hexane	<19.0		19.0		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
Isopropylbenzene	<3.80		3.80		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
Methyl tert-butyl ether	<3.80		3.80		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
Methylene chloride	<38.0		38.0		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1
Naphthalene	<19.0		19.0		ug/Kg	☼	11/30/23 09:01	11/30/23 17:34	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB3 (0-3)

Lab Sample ID: 310-269966-5

Date Collected: 11/16/23 12:55

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 87.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	<3.80		3.80		ug/Kg	✱	11/30/23 09:01	11/30/23 17:34	1
n-Propylbenzene	<3.80		3.80		ug/Kg	✱	11/30/23 09:01	11/30/23 17:34	1
p-Isopropyltoluene	<3.80		3.80		ug/Kg	✱	11/30/23 09:01	11/30/23 17:34	1
sec-Butylbenzene	<3.80		3.80		ug/Kg	✱	11/30/23 09:01	11/30/23 17:34	1
Styrene	<3.80		3.80		ug/Kg	✱	11/30/23 09:01	11/30/23 17:34	1
tert-Butylbenzene	<3.80		3.80		ug/Kg	✱	11/30/23 09:01	11/30/23 17:34	1
Tetrachloroethene	<3.80		3.80		ug/Kg	✱	11/30/23 09:01	11/30/23 17:34	1
Toluene	<3.80		3.80		ug/Kg	✱	11/30/23 09:01	11/30/23 17:34	1
trans-1,2-Dichloroethene	<3.80		3.80		ug/Kg	✱	11/30/23 09:01	11/30/23 17:34	1
trans-1,3-Dichloropropene	<3.80		3.80		ug/Kg	✱	11/30/23 09:01	11/30/23 17:34	1
Trichloroethene	<3.80		3.80		ug/Kg	✱	11/30/23 09:01	11/30/23 17:34	1
Trichlorofluoromethane	<15.2		15.2		ug/Kg	✱	11/30/23 09:01	11/30/23 17:34	1
Vinyl chloride	<7.60		7.60		ug/Kg	✱	11/30/23 09:01	11/30/23 17:34	1
Xylenes, Total	<7.60		7.60		ug/Kg	✱	11/30/23 09:01	11/30/23 17:34	1
TPH-GRO (C6-C10)	<1520		1520		ug/Kg	✱	11/30/23 09:01	11/30/23 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	104		80 - 131	11/30/23 09:01	11/30/23 17:34	1
Toluene-d8 (Surr)	92		80 - 120	11/30/23 09:01	11/30/23 17:34	1
4-Bromofluorobenzene (Surr)	99		78 - 120	11/30/23 09:01	11/30/23 17:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
1,2-Dichlorobenzene	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
1,3-Dichlorobenzene	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
1,4-Dichlorobenzene	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
2,4,5-Trichlorophenol	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
2,4,6-Trichlorophenol	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
2,4-Dichlorophenol	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
2,4-Dimethylphenol	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
2,4-Dinitrophenol	<450		450		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
2,4-Dinitrotoluene	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
2,6-Dinitrotoluene	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
2-Chloronaphthalene	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
2-Chlorophenol	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
2-Methylnaphthalene	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
2-Methylphenol	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
2-Nitroaniline	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
2-Nitrophenol	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
3,3'-Dichlorobenzidine	<450		450		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
3-Nitroaniline	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
4,6-Dinitro-2-methylphenol	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
4-Bromophenyl phenyl ether	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
4-Chloro-3-methylphenol	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
4-Chloroaniline	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
4-Chlorophenyl phenyl ether	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
4-Methylphenol (and/or 3-Methylphenol)	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
4-Nitroaniline	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB3 (0-3)

Lab Sample ID: 310-269966-5

Date Collected: 11/16/23 12:55

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 87.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
Acenaphthene	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
Acenaphthylene	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
Anthracene	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
Benzidine	<450		450		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
Benzo(a)anthracene	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
Benzo(a)pyrene	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
Benzo(b)fluoranthene	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
Benzo(g,h,i)perylene	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
Benzo(k)fluoranthene	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
Benzoic acid	<1130		1130		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
Benzyl alcohol	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
Bis(2-chloroethoxy)methane	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
Bis(2-chloroethyl)ether	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
bis(2-chloroisopropyl) ether	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
Bis(2-ethylhexyl) phthalate	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
Butyl benzyl phthalate	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
Carbazole	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
Chrysene	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
Dibenzo(a,h)anthracene	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
Dibenzofuran	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
Diethyl phthalate	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
Dimethyl phthalate	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
Di-n-butyl phthalate	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
Di-n-octyl phthalate	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
Fluoranthene	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
Fluorene	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
Hexachlorobenzene	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
Hexachlorobutadiene	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
Hexachlorocyclopentadiene	<450		450		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
Hexachloroethane	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
Indeno(1,2,3-cd)pyrene	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
Isophorone	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
Naphthalene	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
Nitrobenzene	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
N-Nitrosodimethylamine	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
N-Nitrosodi-n-propylamine	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
N-Nitrosodiphenylamine	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
Pentachlorophenol	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
Phenanthrene	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
Phenol	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
Pyrene	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
Pyridine	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
Total Cresols	<225		225		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
TPH-DRO (C10-C21)	<16900		16900		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1
TPH-ORO (C21-C35)	<16900	*	16900		ug/Kg	✱	11/28/23 09:37	11/30/23 21:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	74		18 - 126	11/28/23 09:37	11/30/23 21:59	1
Phenol-d5 (Surr)	78		25 - 119	11/28/23 09:37	11/30/23 21:59	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB3 (0-3)

Lab Sample ID: 310-269966-5

Date Collected: 11/16/23 12:55

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 87.4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	83		15 - 131	11/28/23 09:37	11/30/23 21:59	1
2-Fluorobiphenyl (Surr)	75		28 - 116	11/28/23 09:37	11/30/23 21:59	1
2,4,6-Tribromophenol (Surr)	82		10 - 121	11/28/23 09:37	11/30/23 21:59	1
Terphenyl-d14 (Surr)	83		24 - 132	11/28/23 09:37	11/30/23 21:59	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	16500		24.9		mg/Kg	✱	11/29/23 09:27	12/06/23 11:13	1
Antimony	<4.99		4.99		mg/Kg	✱	11/29/23 09:27	12/06/23 11:13	1
Arsenic	9.44		3.99		mg/Kg	✱	11/29/23 09:27	12/06/23 11:13	1
Barium	246		0.998		mg/Kg	✱	11/29/23 09:27	12/06/23 11:13	1
Beryllium	1.32		0.499		mg/Kg	✱	11/29/23 09:27	12/06/23 11:13	1
Cadmium	<0.998		0.998		mg/Kg	✱	11/29/23 09:27	12/06/23 11:13	1
Calcium	28600		99.8		mg/Kg	✱	11/29/23 09:27	12/06/23 11:13	1
Chromium	24.4		0.998		mg/Kg	✱	11/29/23 09:27	12/06/23 11:13	1
Cobalt	10.5		0.998		mg/Kg	✱	11/29/23 09:27	12/06/23 11:13	1
Copper	15.3		0.998		mg/Kg	✱	11/29/23 09:27	12/06/23 11:13	1
Iron	19600		49.9		mg/Kg	✱	11/29/23 09:27	12/06/23 11:13	1
Lead	12.3		4.99		mg/Kg	✱	11/29/23 09:27	12/06/23 11:13	1
Magnesium	3800		49.9		mg/Kg	✱	11/29/23 09:27	12/06/23 11:13	1
Manganese	755		2.49		mg/Kg	✱	11/29/23 09:27	12/06/23 11:13	1
Nickel	23.2		2.49		mg/Kg	✱	11/29/23 09:27	12/06/23 11:13	1
Potassium	1370		99.8		mg/Kg	✱	11/29/23 09:27	12/06/23 11:13	1
Selenium	<4.99		4.99		mg/Kg	✱	11/29/23 09:27	12/06/23 11:13	1
Silver	<0.998		0.998		mg/Kg	✱	11/29/23 09:27	12/06/23 11:13	1
Sodium	227		99.8		mg/Kg	✱	11/29/23 09:27	12/06/23 11:13	1
Thallium	<4.99		4.99		mg/Kg	✱	11/29/23 09:27	12/06/23 11:13	1
Vanadium	45.4		2.49		mg/Kg	✱	11/29/23 09:27	12/06/23 11:13	1
Zinc	42.3		4.99		mg/Kg	✱	11/29/23 09:27	12/06/23 11:13	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.24		0.391		mg/Kg	✱	12/06/23 09:36	12/07/23 10:46	20

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	12.6		0.1		%			11/20/23 08:50	1
Percent Solids (EPA Moisture)	87.4		0.1		%			11/20/23 08:50	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB3 (20-22)

Lab Sample ID: 310-269966-6

Date Collected: 11/16/23 13:10

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
1,1,1-Trichloroethane	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
1,1,2,2-Tetrachloroethane	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
1,1,2-Trichloroethane	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
1,1-Dichloroethane	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
1,1-Dichloroethene	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
1,1-Dichloropropene	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
1,2,3-Trichlorobenzene	<8.09		8.09		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
1,2,3-Trichloropropane	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
1,2,4-Trichlorobenzene	<8.09		8.09		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
1,2,4-Trimethylbenzene	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
1,2-Dibromo-3-chloropropane	<8.09		8.09		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
1,2-Dibromoethane (EDB)	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
1,2-Dichlorobenzene	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
1,2-Dichloroethane	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
1,2-Dichloropropane	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
1,3,5-Trimethylbenzene	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
1,3-Dichlorobenzene	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
1,3-Dichloropropane	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
1,4-Dichlorobenzene	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
2,2-Dichloropropane	<16.2		16.2		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
2-Butanone (MEK)	<16.2		16.2		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
2-Chlorotoluene	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
4-Chlorotoluene	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
Acetone	78.4		40.5		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
Benzene	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
Bromobenzene	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
Bromochloromethane	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
Bromodichloromethane	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
Bromoform	<8.09		8.09		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
Bromomethane	<16.2		16.2		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
Carbon disulfide	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
Carbon tetrachloride	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
Chlorobenzene	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
Chlorodibromomethane	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
Chloroethane	<16.2		16.2		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
Chloroform	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
Chloromethane	<16.2		16.2		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
cis-1,2-Dichloroethene	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
cis-1,3-Dichloropropene	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
Dibromomethane	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
Dichlorodifluoromethane	<12.1		12.1		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
Ethylbenzene	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
Hexachlorobutadiene	<20.2		20.2		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
Hexane	<20.2		20.2		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
Isopropylbenzene	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
Methyl tert-butyl ether	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
Methylene chloride	<40.5		40.5		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1
Naphthalene	<20.2		20.2		ug/Kg	☼	11/30/23 09:01	11/30/23 17:59	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB3 (20-22)

Lab Sample ID: 310-269966-6

Date Collected: 11/16/23 13:10

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	<4.05		4.05		ug/Kg	✱	11/30/23 09:01	11/30/23 17:59	1
n-Propylbenzene	<4.05		4.05		ug/Kg	✱	11/30/23 09:01	11/30/23 17:59	1
p-Isopropyltoluene	<4.05		4.05		ug/Kg	✱	11/30/23 09:01	11/30/23 17:59	1
sec-Butylbenzene	<4.05		4.05		ug/Kg	✱	11/30/23 09:01	11/30/23 17:59	1
Styrene	<4.05		4.05		ug/Kg	✱	11/30/23 09:01	11/30/23 17:59	1
tert-Butylbenzene	<4.05		4.05		ug/Kg	✱	11/30/23 09:01	11/30/23 17:59	1
Tetrachloroethene	<4.05		4.05		ug/Kg	✱	11/30/23 09:01	11/30/23 17:59	1
Toluene	<4.05		4.05		ug/Kg	✱	11/30/23 09:01	11/30/23 17:59	1
trans-1,2-Dichloroethene	<4.05		4.05		ug/Kg	✱	11/30/23 09:01	11/30/23 17:59	1
trans-1,3-Dichloropropene	<4.05		4.05		ug/Kg	✱	11/30/23 09:01	11/30/23 17:59	1
Trichloroethene	<4.05		4.05		ug/Kg	✱	11/30/23 09:01	11/30/23 17:59	1
Trichlorofluoromethane	<16.2		16.2		ug/Kg	✱	11/30/23 09:01	11/30/23 17:59	1
Vinyl chloride	<8.09		8.09		ug/Kg	✱	11/30/23 09:01	11/30/23 17:59	1
Xylenes, Total	<8.09		8.09		ug/Kg	✱	11/30/23 09:01	11/30/23 17:59	1
TPH-GRO (C6-C10)	<1620		1620		ug/Kg	✱	11/30/23 09:01	11/30/23 17:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	107		80 - 131	11/30/23 09:01	11/30/23 17:59	1
Toluene-d8 (Surr)	92		80 - 120	11/30/23 09:01	11/30/23 17:59	1
4-Bromofluorobenzene (Surr)	96		78 - 120	11/30/23 09:01	11/30/23 17:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
1,2-Dichlorobenzene	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
1,3-Dichlorobenzene	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
1,4-Dichlorobenzene	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
2,4,5-Trichlorophenol	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
2,4,6-Trichlorophenol	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
2,4-Dichlorophenol	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
2,4-Dimethylphenol	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
2,4-Dinitrophenol	<485		485		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
2,4-Dinitrotoluene	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
2,6-Dinitrotoluene	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
2-Chloronaphthalene	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
2-Chlorophenol	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
2-Methylnaphthalene	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
2-Methylphenol	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
2-Nitroaniline	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
2-Nitrophenol	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
3,3'-Dichlorobenzidine	<485		485		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
3-Nitroaniline	<242	*-	242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
4,6-Dinitro-2-methylphenol	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
4-Bromophenyl phenyl ether	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
4-Chloro-3-methylphenol	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
4-Chloroaniline	<242	*- *1	242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
4-Chlorophenyl phenyl ether	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
4-Methylphenol (and/or 3-Methylphenol)	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
4-Nitroaniline	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB3 (20-22)

Lab Sample ID: 310-269966-6

Date Collected: 11/16/23 13:10

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
Acenaphthene	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
Acenaphthylene	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
Anthracene	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
Benzidine	<485		485		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
Benzo(a)anthracene	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
Benzo(a)pyrene	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
Benzo(b)fluoranthene	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
Benzo(g,h,i)perylene	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
Benzo(k)fluoranthene	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
Benzoic acid	<1210		1210		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
Benzyl alcohol	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
Bis(2-chloroethoxy)methane	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
Bis(2-chloroethyl)ether	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
bis(2-chloroisopropyl) ether	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
Bis(2-ethylhexyl) phthalate	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
Butyl benzyl phthalate	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
Carbazole	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
Chrysene	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
Dibenzo(a,h)anthracene	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
Dibenzofuran	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
Diethyl phthalate	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
Dimethyl phthalate	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
Di-n-butyl phthalate	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
Di-n-octyl phthalate	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
Fluoranthene	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
Fluorene	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
Hexachlorobenzene	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
Hexachlorobutadiene	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
Hexachlorocyclopentadiene	<485		485		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
Hexachloroethane	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
Indeno(1,2,3-cd)pyrene	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
Isophorone	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
Naphthalene	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
Nitrobenzene	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
N-Nitrosodimethylamine	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
N-Nitrosodi-n-propylamine	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
N-Nitrosodiphenylamine	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
Pentachlorophenol	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
Phenanthrene	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
Phenol	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
Pyrene	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
Pyridine	<242	*- *1	242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
Total Cresols	<242		242		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
TPH-DRO (C10-C21)	<18200		18200		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1
TPH-ORO (C21-C35)	<18200	*-	18200		ug/Kg	✱	11/28/23 09:37	12/01/23 23:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	77		18 - 126	11/28/23 09:37	12/01/23 23:18	1
Phenol-d5 (Surr)	80		25 - 119	11/28/23 09:37	12/01/23 23:18	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB3 (20-22)

Lab Sample ID: 310-269966-6

Date Collected: 11/16/23 13:10

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 79.2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	61		15 - 131	11/28/23 09:37	12/01/23 23:18	1
2-Fluorobiphenyl (Surr)	76		28 - 116	11/28/23 09:37	12/01/23 23:18	1
2,4,6-Tribromophenol (Surr)	87		10 - 121	11/28/23 09:37	12/01/23 23:18	1
Terphenyl-d14 (Surr)	92		24 - 132	11/28/23 09:37	12/01/23 23:18	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8510		28.7		mg/Kg	✱	11/29/23 09:27	12/06/23 11:16	1
Antimony	<5.75		5.75		mg/Kg	✱	11/29/23 09:27	12/06/23 11:16	1
Arsenic	31.8		4.60		mg/Kg	✱	11/29/23 09:27	12/06/23 11:16	1
Barium	376		1.15		mg/Kg	✱	11/29/23 09:27	12/06/23 11:16	1
Beryllium	1.30		0.575		mg/Kg	✱	11/29/23 09:27	12/06/23 11:16	1
Cadmium	<1.15		1.15		mg/Kg	✱	11/29/23 09:27	12/06/23 11:16	1
Calcium	4360		115		mg/Kg	✱	11/29/23 09:27	12/06/23 11:16	1
Chromium	11.0		1.15		mg/Kg	✱	11/29/23 09:27	12/06/23 11:16	1
Cobalt	27.8		1.15		mg/Kg	✱	11/29/23 09:27	12/06/23 11:16	1
Copper	7.38		1.15		mg/Kg	✱	11/29/23 09:27	12/06/23 11:16	1
Iron	19300		57.5		mg/Kg	✱	11/29/23 09:27	12/06/23 11:16	1
Lead	39.5		5.75		mg/Kg	✱	11/29/23 09:27	12/06/23 11:16	1
Magnesium	1560		57.5		mg/Kg	✱	11/29/23 09:27	12/06/23 11:16	1
Manganese	2700		2.87		mg/Kg	✱	11/29/23 09:27	12/06/23 11:16	1
Nickel	22.8		2.87		mg/Kg	✱	11/29/23 09:27	12/06/23 11:16	1
Potassium	801		115		mg/Kg	✱	11/29/23 09:27	12/06/23 11:16	1
Selenium	<5.75		5.75		mg/Kg	✱	11/29/23 09:27	12/06/23 11:16	1
Silver	<1.15		1.15		mg/Kg	✱	11/29/23 09:27	12/06/23 11:16	1
Sodium	125		115		mg/Kg	✱	11/29/23 09:27	12/06/23 11:16	1
Thallium	<5.75		5.75		mg/Kg	✱	11/29/23 09:27	12/06/23 11:16	1
Vanadium	61.3		2.87		mg/Kg	✱	11/29/23 09:27	12/06/23 11:16	1
Zinc	27.9		5.75		mg/Kg	✱	11/29/23 09:27	12/06/23 11:16	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.143		0.0223		mg/Kg	✱	12/06/23 09:36	12/07/23 10:37	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	20.8		0.1		%			11/20/23 08:50	1
Percent Solids (EPA Moisture)	79.2		0.1		%			11/20/23 08:50	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB4 (0-3)

Lab Sample ID: 310-269966-7

Date Collected: 11/16/23 14:55

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
1,1,1-Trichloroethane	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
1,1,2,2-Tetrachloroethane	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
1,1,2-Trichloroethane	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
1,1-Dichloroethane	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
1,1-Dichloroethene	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
1,1-Dichloropropene	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
1,2,3-Trichlorobenzene	<8.17		8.17		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
1,2,3-Trichloropropane	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
1,2,4-Trichlorobenzene	<8.17		8.17		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
1,2,4-Trimethylbenzene	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
1,2-Dibromo-3-chloropropane	<8.17		8.17		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
1,2-Dibromoethane (EDB)	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
1,2-Dichlorobenzene	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
1,2-Dichloroethane	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
1,2-Dichloropropane	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
1,3,5-Trimethylbenzene	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
1,3-Dichlorobenzene	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
1,3-Dichloropropane	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
1,4-Dichlorobenzene	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
2,2-Dichloropropane	<16.3		16.3		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
2-Butanone (MEK)	<16.3		16.3		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
2-Chlorotoluene	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
4-Chlorotoluene	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
Acetone	<40.9		40.9		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
Benzene	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
Bromobenzene	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
Bromochloromethane	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
Bromodichloromethane	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
Bromoform	<8.17		8.17		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
Bromomethane	<16.3		16.3		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
Carbon disulfide	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
Carbon tetrachloride	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
Chlorobenzene	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
Chlorodibromomethane	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
Chloroethane	<16.3		16.3		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
Chloroform	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
Chloromethane	<16.3		16.3		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
cis-1,2-Dichloroethene	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
cis-1,3-Dichloropropene	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
Dibromomethane	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
Dichlorodifluoromethane	<12.3		12.3		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
Ethylbenzene	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
Hexachlorobutadiene	<20.4		20.4		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
Hexane	<20.4		20.4		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
Isopropylbenzene	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
Methyl tert-butyl ether	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
Methylene chloride	<40.9		40.9		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
Naphthalene	<20.4		20.4		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB4 (0-3)

Lab Sample ID: 310-269966-7

Date Collected: 11/16/23 14:55

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
n-Propylbenzene	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
p-Isopropyltoluene	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
sec-Butylbenzene	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
Styrene	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
tert-Butylbenzene	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
Tetrachloroethene	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
Toluene	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
trans-1,2-Dichloroethene	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
trans-1,3-Dichloropropene	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
Trichloroethene	<4.09		4.09		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
Trichlorofluoromethane	<16.3		16.3		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
Vinyl chloride	<8.17		8.17		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
Xylenes, Total	<8.17		8.17		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1
TPH-GRO (C6-C10)	<1630		1630		ug/Kg	☼	11/30/23 09:01	11/30/23 18:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	106		80 - 131	11/30/23 09:01	11/30/23 18:23	1
Toluene-d8 (Surr)	94		80 - 120	11/30/23 09:01	11/30/23 18:23	1
4-Bromofluorobenzene (Surr)	96		78 - 120	11/30/23 09:01	11/30/23 18:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<237		237		ug/Kg	☼	11/28/23 09:37	12/01/23 23:45	1
1,2-Dichlorobenzene	<237		237		ug/Kg	☼	11/28/23 09:37	12/01/23 23:45	1
1,3-Dichlorobenzene	<237		237		ug/Kg	☼	11/28/23 09:37	12/01/23 23:45	1
1,4-Dichlorobenzene	<237		237		ug/Kg	☼	11/28/23 09:37	12/01/23 23:45	1
2,4,5-Trichlorophenol	<237		237		ug/Kg	☼	11/28/23 09:37	12/01/23 23:45	1
2,4,6-Trichlorophenol	<237		237		ug/Kg	☼	11/28/23 09:37	12/01/23 23:45	1
2,4-Dichlorophenol	<237		237		ug/Kg	☼	11/28/23 09:37	12/01/23 23:45	1
2,4-Dimethylphenol	<237		237		ug/Kg	☼	11/28/23 09:37	12/01/23 23:45	1
2,4-Dinitrophenol	<474		474		ug/Kg	☼	11/28/23 09:37	12/01/23 23:45	1
2,4-Dinitrotoluene	<237		237		ug/Kg	☼	11/28/23 09:37	12/01/23 23:45	1
2,6-Dinitrotoluene	<237		237		ug/Kg	☼	11/28/23 09:37	12/01/23 23:45	1
2-Chloronaphthalene	<237		237		ug/Kg	☼	11/28/23 09:37	12/01/23 23:45	1
2-Chlorophenol	<237		237		ug/Kg	☼	11/28/23 09:37	12/01/23 23:45	1
2-Methylnaphthalene	<237		237		ug/Kg	☼	11/28/23 09:37	12/01/23 23:45	1
2-Methylphenol	<237		237		ug/Kg	☼	11/28/23 09:37	12/01/23 23:45	1
2-Nitroaniline	<237		237		ug/Kg	☼	11/28/23 09:37	12/01/23 23:45	1
2-Nitrophenol	<237		237		ug/Kg	☼	11/28/23 09:37	12/01/23 23:45	1
3,3'-Dichlorobenzidine	<474		474		ug/Kg	☼	11/28/23 09:37	12/01/23 23:45	1
3-Nitroaniline	<237	*-	237		ug/Kg	☼	11/28/23 09:37	12/01/23 23:45	1
4,6-Dinitro-2-methylphenol	<237		237		ug/Kg	☼	11/28/23 09:37	12/01/23 23:45	1
4-Bromophenyl phenyl ether	<237		237		ug/Kg	☼	11/28/23 09:37	12/01/23 23:45	1
4-Chloro-3-methylphenol	<237		237		ug/Kg	☼	11/28/23 09:37	12/01/23 23:45	1
4-Chloroaniline	<237	*- *1	237		ug/Kg	☼	11/28/23 09:37	12/01/23 23:45	1
4-Chlorophenyl phenyl ether	<237		237		ug/Kg	☼	11/28/23 09:37	12/01/23 23:45	1
4-Methylphenol (and/or 3-Methylphenol)	<237		237		ug/Kg	☼	11/28/23 09:37	12/01/23 23:45	1
4-Nitroaniline	<237		237		ug/Kg	☼	11/28/23 09:37	12/01/23 23:45	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB4 (0-3)

Lab Sample ID: 310-269966-7

Date Collected: 11/16/23 14:55

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<237		237		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
Acenaphthene	<237		237		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
Acenaphthylene	<237		237		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
Anthracene	<237		237		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
Benzidine	<474		474		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
Benzo(a)anthracene	<237		237		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
Benzo(a)pyrene	<237		237		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
Benzo(b)fluoranthene	<237		237		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
Benzo(g,h,i)perylene	<237		237		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
Benzo(k)fluoranthene	<237		237		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
Benzoic acid	<1190		1190		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
Benzyl alcohol	<237		237		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
Bis(2-chloroethoxy)methane	<237		237		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
Bis(2-chloroethyl)ether	<237		237		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
bis(2-chloroisopropyl) ether	<237		237		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
Bis(2-ethylhexyl) phthalate	<237		237		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
Butyl benzyl phthalate	<237		237		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
Carbazole	<237		237		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
Chrysene	<237		237		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
Dibenzo(a,h)anthracene	<237		237		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
Dibenzofuran	<237		237		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
Diethyl phthalate	<237		237		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
Dimethyl phthalate	<237		237		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
Di-n-butyl phthalate	<237		237		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
Di-n-octyl phthalate	<237		237		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
Fluoranthene	<237		237		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
Fluorene	<237		237		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
Hexachlorobenzene	<237		237		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
Hexachlorobutadiene	<237		237		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
Hexachlorocyclopentadiene	<474		474		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
Hexachloroethane	<237		237		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
Indeno(1,2,3-cd)pyrene	<237		237		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
Isophorone	<237		237		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
Naphthalene	<237		237		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
Nitrobenzene	<237		237		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
N-Nitrosodimethylamine	<237		237		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
N-Nitrosodi-n-propylamine	<237		237		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
N-Nitrosodiphenylamine	<237		237		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
Pentachlorophenol	<237		237		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
Phenanthrene	<237		237		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
Phenol	<237		237		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
Pyrene	<237		237		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
Pyridine	<237 *- *1		237		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
Total Cresols	<237		237		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
TPH-DRO (C10-C21)	<17800		17800		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1
TPH-ORO (C21-C35)	<17800 *-		17800		ug/Kg	✱	11/28/23 09:37	12/01/23 23:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	90		18 - 126	11/28/23 09:37	12/01/23 23:45	1
Phenol-d5 (Surr)	93		25 - 119	11/28/23 09:37	12/01/23 23:45	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB4 (0-3)

Lab Sample ID: 310-269966-7

Date Collected: 11/16/23 14:55

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 81.6

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	98		15 - 131	11/28/23 09:37	12/01/23 23:45	1
2-Fluorobiphenyl (Surr)	87		28 - 116	11/28/23 09:37	12/01/23 23:45	1
2,4,6-Tribromophenol (Surr)	97		10 - 121	11/28/23 09:37	12/01/23 23:45	1
Terphenyl-d14 (Surr)	111		24 - 132	11/28/23 09:37	12/01/23 23:45	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	25100		48.5		mg/Kg	✱	11/29/23 09:27	12/06/23 11:41	2
Antimony	<9.70		9.70		mg/Kg	✱	11/29/23 09:27	12/06/23 11:41	2
Arsenic	11.8		7.76		mg/Kg	✱	11/29/23 09:27	12/06/23 11:41	2
Barium	186		1.94		mg/Kg	✱	11/29/23 09:27	12/06/23 11:41	2
Beryllium	1.54		0.970		mg/Kg	✱	11/29/23 09:27	12/06/23 11:41	2
Cadmium	<1.94		1.94		mg/Kg	✱	11/29/23 09:27	12/06/23 11:41	2
Calcium	4530		194		mg/Kg	✱	11/29/23 09:27	12/06/23 11:41	2
Chromium	24.2		1.94		mg/Kg	✱	11/29/23 09:27	12/06/23 11:41	2
Cobalt	1.98		1.94		mg/Kg	✱	11/29/23 09:27	12/06/23 11:41	2
Copper	11.2		1.94		mg/Kg	✱	11/29/23 09:27	12/06/23 11:41	2
Iron	22400		97.0		mg/Kg	✱	11/29/23 09:27	12/06/23 11:41	2
Lead	9.99		9.70		mg/Kg	✱	11/29/23 09:27	12/06/23 11:41	2
Magnesium	3040		97.0		mg/Kg	✱	11/29/23 09:27	12/06/23 11:41	2
Manganese	65.5		4.85		mg/Kg	✱	11/29/23 09:27	12/06/23 11:41	2
Nickel	16.5		4.85		mg/Kg	✱	11/29/23 09:27	12/06/23 11:41	2
Potassium	1560		194		mg/Kg	✱	11/29/23 09:27	12/06/23 11:41	2
Selenium	<9.70		9.70		mg/Kg	✱	11/29/23 09:27	12/06/23 11:41	2
Silver	<1.94		1.94		mg/Kg	✱	11/29/23 09:27	12/06/23 11:41	2
Sodium	<194		194		mg/Kg	✱	11/29/23 09:27	12/06/23 11:41	2
Thallium	<9.70		9.70		mg/Kg	✱	11/29/23 09:27	12/06/23 11:41	2
Vanadium	55.9		4.85		mg/Kg	✱	11/29/23 09:27	12/06/23 11:41	2
Zinc	38.3		9.70		mg/Kg	✱	11/29/23 09:27	12/06/23 11:41	2

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.139		0.0213		mg/Kg	✱	12/06/23 09:36	12/07/23 10:49	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	18.4		0.1		%			11/20/23 08:50	1
Percent Solids (EPA Moisture)	81.6		0.1		%			11/20/23 08:50	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB4 (15-17)A

Lab Sample ID: 310-269966-8

Date Collected: 11/16/23 15:00

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
1,1,1-Trichloroethane	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
1,1,2,2-Tetrachloroethane	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
1,1,2-Trichloroethane	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
1,1-Dichloroethane	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
1,1-Dichloroethene	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
1,1-Dichloropropene	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
1,2,3-Trichlorobenzene	<8.10		8.10		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
1,2,3-Trichloropropane	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
1,2,4-Trichlorobenzene	<8.10		8.10		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
1,2,4-Trimethylbenzene	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
1,2-Dibromo-3-chloropropane	<8.10		8.10		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
1,2-Dibromoethane (EDB)	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
1,2-Dichlorobenzene	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
1,2-Dichloroethane	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
1,2-Dichloropropane	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
1,3,5-Trimethylbenzene	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
1,3-Dichlorobenzene	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
1,3-Dichloropropane	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
1,4-Dichlorobenzene	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
2,2-Dichloropropane	<16.2		16.2		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
2-Butanone (MEK)	<16.2		16.2		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
2-Chlorotoluene	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
4-Chlorotoluene	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
Acetone	<40.5		40.5		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
Benzene	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
Bromobenzene	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
Bromochloromethane	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
Bromodichloromethane	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
Bromoform	<8.10		8.10		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
Bromomethane	<16.2		16.2		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
Carbon disulfide	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
Carbon tetrachloride	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
Chlorobenzene	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
Chlorodibromomethane	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
Chloroethane	<16.2		16.2		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
Chloroform	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
Chloromethane	<16.2		16.2		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
cis-1,2-Dichloroethene	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
cis-1,3-Dichloropropene	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
Dibromomethane	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
Dichlorodifluoromethane	<12.2		12.2		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
Ethylbenzene	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
Hexachlorobutadiene	<20.3		20.3		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
Hexane	<20.3		20.3		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
Isopropylbenzene	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
Methyl tert-butyl ether	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
Methylene chloride	<40.5		40.5		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
Naphthalene	<20.3		20.3		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB4 (15-17)A

Lab Sample ID: 310-269966-8

Date Collected: 11/16/23 15:00

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
n-Propylbenzene	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
p-Isopropyltoluene	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
sec-Butylbenzene	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
Styrene	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
tert-Butylbenzene	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
Tetrachloroethene	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
Toluene	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
trans-1,2-Dichloroethene	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
trans-1,3-Dichloropropene	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
Trichloroethene	<4.05		4.05		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
Trichlorofluoromethane	<16.2		16.2		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
Vinyl chloride	<8.10		8.10		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
Xylenes, Total	<8.10		8.10		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1
TPH-GRO (C6-C10)	<1620		1620		ug/Kg	☼	11/30/23 09:01	11/30/23 18:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	105		80 - 131	11/30/23 09:01	11/30/23 18:47	1
Toluene-d8 (Surr)	93		80 - 120	11/30/23 09:01	11/30/23 18:47	1
4-Bromofluorobenzene (Surr)	93		78 - 120	11/30/23 09:01	11/30/23 18:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<1180		1180		ug/Kg	☼	11/28/23 09:37	12/02/23 00:12	5
1,2-Dichlorobenzene	<1180		1180		ug/Kg	☼	11/28/23 09:37	12/02/23 00:12	5
1,3-Dichlorobenzene	<1180		1180		ug/Kg	☼	11/28/23 09:37	12/02/23 00:12	5
1,4-Dichlorobenzene	<1180		1180		ug/Kg	☼	11/28/23 09:37	12/02/23 00:12	5
2,4,5-Trichlorophenol	<1180		1180		ug/Kg	☼	11/28/23 09:37	12/02/23 00:12	5
2,4,6-Trichlorophenol	<1180		1180		ug/Kg	☼	11/28/23 09:37	12/02/23 00:12	5
2,4-Dichlorophenol	<1180		1180		ug/Kg	☼	11/28/23 09:37	12/02/23 00:12	5
2,4-Dimethylphenol	<1180		1180		ug/Kg	☼	11/28/23 09:37	12/02/23 00:12	5
2,4-Dinitrophenol	<2350		2350		ug/Kg	☼	11/28/23 09:37	12/02/23 00:12	5
2,4-Dinitrotoluene	<1180		1180		ug/Kg	☼	11/28/23 09:37	12/02/23 00:12	5
2,6-Dinitrotoluene	<1180		1180		ug/Kg	☼	11/28/23 09:37	12/02/23 00:12	5
2-Chloronaphthalene	<1180		1180		ug/Kg	☼	11/28/23 09:37	12/02/23 00:12	5
2-Chlorophenol	<1180		1180		ug/Kg	☼	11/28/23 09:37	12/02/23 00:12	5
2-Methylnaphthalene	<1180		1180		ug/Kg	☼	11/28/23 09:37	12/02/23 00:12	5
2-Methylphenol	<1180		1180		ug/Kg	☼	11/28/23 09:37	12/02/23 00:12	5
2-Nitroaniline	<1180		1180		ug/Kg	☼	11/28/23 09:37	12/02/23 00:12	5
2-Nitrophenol	<1180		1180		ug/Kg	☼	11/28/23 09:37	12/02/23 00:12	5
3,3'-Dichlorobenzidine	<2350		2350		ug/Kg	☼	11/28/23 09:37	12/02/23 00:12	5
3-Nitroaniline	<1180	*-	1180		ug/Kg	☼	11/28/23 09:37	12/02/23 00:12	5
4,6-Dinitro-2-methylphenol	<1180		1180		ug/Kg	☼	11/28/23 09:37	12/02/23 00:12	5
4-Bromophenyl phenyl ether	<1180		1180		ug/Kg	☼	11/28/23 09:37	12/02/23 00:12	5
4-Chloro-3-methylphenol	<1180		1180		ug/Kg	☼	11/28/23 09:37	12/02/23 00:12	5
4-Chloroaniline	<1180	*- *1	1180		ug/Kg	☼	11/28/23 09:37	12/02/23 00:12	5
4-Chlorophenyl phenyl ether	<1180		1180		ug/Kg	☼	11/28/23 09:37	12/02/23 00:12	5
4-Methylphenol (and/or 3-Methylphenol)	<1180		1180		ug/Kg	☼	11/28/23 09:37	12/02/23 00:12	5
4-Nitroaniline	<1180		1180		ug/Kg	☼	11/28/23 09:37	12/02/23 00:12	5

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB4 (15-17)A

Lab Sample ID: 310-269966-8

Date Collected: 11/16/23 15:00

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<1180		1180		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
Acenaphthene	<1180		1180		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
Acenaphthylene	<1180		1180		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
Anthracene	<1180		1180		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
Benzidine	<2350		2350		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
Benzo(a)anthracene	<1180		1180		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
Benzo(a)pyrene	<1180		1180		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
Benzo(b)fluoranthene	<1180		1180		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
Benzo(g,h,i)perylene	<1180		1180		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
Benzo(k)fluoranthene	<1180		1180		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
Benzoic acid	<5880		5880		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
Benzyl alcohol	<1180		1180		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
Bis(2-chloroethoxy)methane	<1180		1180		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
Bis(2-chloroethyl)ether	<1180		1180		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
bis(2-chloroisopropyl) ether	<1180		1180		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
Bis(2-ethylhexyl) phthalate	<1180		1180		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
Butyl benzyl phthalate	<1180		1180		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
Carbazole	<1180		1180		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
Chrysene	<1180		1180		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
Dibenzo(a,h)anthracene	<1180		1180		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
Dibenzofuran	<1180		1180		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
Diethyl phthalate	<1180		1180		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
Dimethyl phthalate	<1180		1180		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
Di-n-butyl phthalate	<1180		1180		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
Di-n-octyl phthalate	<1180		1180		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
Fluoranthene	<1180		1180		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
Fluorene	<1180		1180		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
Hexachlorobenzene	<1180		1180		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
Hexachlorobutadiene	<1180		1180		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
Hexachlorocyclopentadiene	<2350		2350		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
Hexachloroethane	<1180		1180		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
Indeno(1,2,3-cd)pyrene	<1180		1180		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
Isophorone	<1180		1180		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
Naphthalene	<1180		1180		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
Nitrobenzene	<1180		1180		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
N-Nitrosodimethylamine	<1180		1180		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
N-Nitrosodi-n-propylamine	<1180		1180		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
N-Nitrosodiphenylamine	<1180		1180		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
Pentachlorophenol	<1180		1180		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
Phenanthrene	<1180		1180		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
Phenol	<1180		1180		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
Pyrene	<1180		1180		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
Pyridine	<1180	*- *1	1180		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
Total Cresols	<1180		1180		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
TPH-DRO (C10-C21)	<88200		88200		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5
TPH-ORO (C21-C35)	<88200	*-	88200		ug/Kg	✱	11/28/23 09:37	12/02/23 00:12	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	90		18 - 126	11/28/23 09:37	12/02/23 00:12	5
Phenol-d5 (Surr)	93		25 - 119	11/28/23 09:37	12/02/23 00:12	5

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB4 (15-17)A

Lab Sample ID: 310-269966-8

Date Collected: 11/16/23 15:00

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 82.9

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	95		15 - 131	11/28/23 09:37	12/02/23 00:12	5
2-Fluorobiphenyl (Surr)	99		28 - 116	11/28/23 09:37	12/02/23 00:12	5
2,4,6-Tribromophenol (Surr)	77		10 - 121	11/28/23 09:37	12/02/23 00:12	5
Terphenyl-d14 (Surr)	105		24 - 132	11/28/23 09:37	12/02/23 00:12	5

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5720		26.3		mg/Kg	✱	11/29/23 09:27	12/06/23 11:20	1
Antimony	<5.25		5.25		mg/Kg	✱	11/29/23 09:27	12/06/23 11:20	1
Arsenic	9.10		4.20		mg/Kg	✱	11/29/23 09:27	12/06/23 11:20	1
Barium	55.6		1.05		mg/Kg	✱	11/29/23 09:27	12/06/23 11:20	1
Beryllium	0.700		0.525		mg/Kg	✱	11/29/23 09:27	12/06/23 11:20	1
Cadmium	<1.05		1.05		mg/Kg	✱	11/29/23 09:27	12/06/23 11:20	1
Calcium	38500		105		mg/Kg	✱	11/29/23 09:27	12/06/23 11:20	1
Chromium	13.7		1.05		mg/Kg	✱	11/29/23 09:27	12/06/23 11:20	1
Cobalt	5.97		1.05		mg/Kg	✱	11/29/23 09:27	12/06/23 11:20	1
Copper	12.9		1.05		mg/Kg	✱	11/29/23 09:27	12/06/23 11:20	1
Iron	13100		52.5		mg/Kg	✱	11/29/23 09:27	12/06/23 11:20	1
Lead	8.37		5.25		mg/Kg	✱	11/29/23 09:27	12/06/23 11:20	1
Magnesium	6880		52.5		mg/Kg	✱	11/29/23 09:27	12/06/23 11:20	1
Manganese	252		2.63		mg/Kg	✱	11/29/23 09:27	12/06/23 11:20	1
Nickel	18.8		2.63		mg/Kg	✱	11/29/23 09:27	12/06/23 11:20	1
Potassium	1230		105		mg/Kg	✱	11/29/23 09:27	12/06/23 11:20	1
Selenium	<5.25		5.25		mg/Kg	✱	11/29/23 09:27	12/06/23 11:20	1
Silver	<1.05		1.05		mg/Kg	✱	11/29/23 09:27	12/06/23 11:20	1
Sodium	161		105		mg/Kg	✱	11/29/23 09:27	12/06/23 11:20	1
Thallium	<5.25		5.25		mg/Kg	✱	11/29/23 09:27	12/06/23 11:20	1
Vanadium	32.1		2.63		mg/Kg	✱	11/29/23 09:27	12/06/23 11:20	1
Zinc	50.0		5.25		mg/Kg	✱	11/29/23 09:27	12/06/23 11:20	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.945		0.183		mg/Kg	✱	12/06/23 09:36	12/07/23 11:05	10

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	17.1		0.1		%			11/20/23 08:50	1
Percent Solids (EPA Moisture)	82.9		0.1		%			11/20/23 08:50	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB4 (15-17)B

Lab Sample ID: 310-269966-9

Date Collected: 11/16/23 15:00

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
1,1,1-Trichloroethane	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
1,1,2,2-Tetrachloroethane	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
1,1,2-Trichloroethane	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
1,1-Dichloroethane	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
1,1-Dichloroethene	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
1,1-Dichloropropene	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
1,2,3-Trichlorobenzene	<7.69		7.69		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
1,2,3-Trichloropropane	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
1,2,4-Trichlorobenzene	<7.69		7.69		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
1,2,4-Trimethylbenzene	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
1,2-Dibromo-3-chloropropane	<7.69		7.69		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
1,2-Dibromoethane (EDB)	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
1,2-Dichlorobenzene	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
1,2-Dichloroethane	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
1,2-Dichloropropane	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
1,3,5-Trimethylbenzene	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
1,3-Dichlorobenzene	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
1,3-Dichloropropane	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
1,4-Dichlorobenzene	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
2,2-Dichloropropane	<15.4		15.4		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
2-Butanone (MEK)	<15.4		15.4		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
2-Chlorotoluene	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
4-Chlorotoluene	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
Acetone	<38.4		38.4		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
Benzene	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
Bromobenzene	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
Bromochloromethane	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
Bromodichloromethane	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
Bromoform	<7.69		7.69		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
Bromomethane	<15.4		15.4		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
Carbon disulfide	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
Carbon tetrachloride	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
Chlorobenzene	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
Chlorodibromomethane	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
Chloroethane	<15.4		15.4		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
Chloroform	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
Chloromethane	<15.4		15.4		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
cis-1,2-Dichloroethene	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
cis-1,3-Dichloropropene	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
Dibromomethane	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
Dichlorodifluoromethane	<11.5		11.5		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
Ethylbenzene	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
Hexachlorobutadiene	<19.2		19.2		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
Hexane	<19.2		19.2		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
Isopropylbenzene	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
Methyl tert-butyl ether	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
Methylene chloride	<38.4		38.4		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
Naphthalene	<19.2		19.2		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB4 (15-17)B

Lab Sample ID: 310-269966-9

Date Collected: 11/16/23 15:00

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
n-Propylbenzene	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
p-Isopropyltoluene	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
sec-Butylbenzene	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
Styrene	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
tert-Butylbenzene	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
Tetrachloroethene	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
Toluene	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
trans-1,2-Dichloroethene	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
trans-1,3-Dichloropropene	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
Trichloroethene	<3.84		3.84		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
Trichlorofluoromethane	<15.4		15.4		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
Vinyl chloride	<7.69		7.69		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
Xylenes, Total	<7.69		7.69		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1
TPH-GRO (C6-C10)	<1540		1540		ug/Kg	☼	11/30/23 09:01	11/30/23 19:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	105		80 - 131	11/30/23 09:01	11/30/23 19:12	1
Toluene-d8 (Surr)	93		80 - 120	11/30/23 09:01	11/30/23 19:12	1
4-Bromofluorobenzene (Surr)	95		78 - 120	11/30/23 09:01	11/30/23 19:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<1130		1130		ug/Kg	☼	11/28/23 09:37	12/02/23 00:38	5
1,2-Dichlorobenzene	<1130		1130		ug/Kg	☼	11/28/23 09:37	12/02/23 00:38	5
1,3-Dichlorobenzene	<1130		1130		ug/Kg	☼	11/28/23 09:37	12/02/23 00:38	5
1,4-Dichlorobenzene	<1130		1130		ug/Kg	☼	11/28/23 09:37	12/02/23 00:38	5
2,4,5-Trichlorophenol	<1130		1130		ug/Kg	☼	11/28/23 09:37	12/02/23 00:38	5
2,4,6-Trichlorophenol	<1130		1130		ug/Kg	☼	11/28/23 09:37	12/02/23 00:38	5
2,4-Dichlorophenol	<1130		1130		ug/Kg	☼	11/28/23 09:37	12/02/23 00:38	5
2,4-Dimethylphenol	<1130		1130		ug/Kg	☼	11/28/23 09:37	12/02/23 00:38	5
2,4-Dinitrophenol	<2260		2260		ug/Kg	☼	11/28/23 09:37	12/02/23 00:38	5
2,4-Dinitrotoluene	<1130		1130		ug/Kg	☼	11/28/23 09:37	12/02/23 00:38	5
2,6-Dinitrotoluene	<1130		1130		ug/Kg	☼	11/28/23 09:37	12/02/23 00:38	5
2-Chloronaphthalene	<1130		1130		ug/Kg	☼	11/28/23 09:37	12/02/23 00:38	5
2-Chlorophenol	<1130		1130		ug/Kg	☼	11/28/23 09:37	12/02/23 00:38	5
2-Methylnaphthalene	<1130		1130		ug/Kg	☼	11/28/23 09:37	12/02/23 00:38	5
2-Methylphenol	<1130		1130		ug/Kg	☼	11/28/23 09:37	12/02/23 00:38	5
2-Nitroaniline	<1130		1130		ug/Kg	☼	11/28/23 09:37	12/02/23 00:38	5
2-Nitrophenol	<1130		1130		ug/Kg	☼	11/28/23 09:37	12/02/23 00:38	5
3,3'-Dichlorobenzidine	<2260		2260		ug/Kg	☼	11/28/23 09:37	12/02/23 00:38	5
3-Nitroaniline	<1130	*-	1130		ug/Kg	☼	11/28/23 09:37	12/02/23 00:38	5
4,6-Dinitro-2-methylphenol	<1130		1130		ug/Kg	☼	11/28/23 09:37	12/02/23 00:38	5
4-Bromophenyl phenyl ether	<1130		1130		ug/Kg	☼	11/28/23 09:37	12/02/23 00:38	5
4-Chloro-3-methylphenol	<1130		1130		ug/Kg	☼	11/28/23 09:37	12/02/23 00:38	5
4-Chloroaniline	<1130	*- *1	1130		ug/Kg	☼	11/28/23 09:37	12/02/23 00:38	5
4-Chlorophenyl phenyl ether	<1130		1130		ug/Kg	☼	11/28/23 09:37	12/02/23 00:38	5
4-Methylphenol (and/or 3-Methylphenol)	<1130		1130		ug/Kg	☼	11/28/23 09:37	12/02/23 00:38	5
4-Nitroaniline	<1130		1130		ug/Kg	☼	11/28/23 09:37	12/02/23 00:38	5

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB4 (15-17)B

Lab Sample ID: 310-269966-9

Date Collected: 11/16/23 15:00

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<1130		1130		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
Acenaphthene	<1130		1130		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
Acenaphthylene	<1130		1130		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
Anthracene	<1130		1130		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
Benzidine	<2260		2260		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
Benzo(a)anthracene	<1130		1130		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
Benzo(a)pyrene	<1130		1130		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
Benzo(b)fluoranthene	<1130		1130		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
Benzo(g,h,i)perylene	<1130		1130		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
Benzo(k)fluoranthene	<1130		1130		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
Benzoic acid	<5640		5640		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
Benzyl alcohol	<1130		1130		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
Bis(2-chloroethoxy)methane	<1130		1130		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
Bis(2-chloroethyl)ether	<1130		1130		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
bis(2-chloroisopropyl) ether	<1130		1130		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
Bis(2-ethylhexyl) phthalate	<1130		1130		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
Butyl benzyl phthalate	<1130		1130		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
Carbazole	<1130		1130		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
Chrysene	<1130		1130		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
Dibenzo(a,h)anthracene	<1130		1130		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
Dibenzofuran	<1130		1130		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
Diethyl phthalate	<1130		1130		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
Dimethyl phthalate	<1130		1130		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
Di-n-butyl phthalate	<1130		1130		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
Di-n-octyl phthalate	<1130		1130		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
Fluoranthene	<1130		1130		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
Fluorene	<1130		1130		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
Hexachlorobenzene	<1130		1130		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
Hexachlorobutadiene	<1130		1130		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
Hexachlorocyclopentadiene	<2260		2260		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
Hexachloroethane	<1130		1130		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
Indeno(1,2,3-cd)pyrene	<1130		1130		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
Isophorone	<1130		1130		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
Naphthalene	<1130		1130		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
Nitrobenzene	<1130		1130		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
N-Nitrosodimethylamine	<1130		1130		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
N-Nitrosodi-n-propylamine	<1130		1130		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
N-Nitrosodiphenylamine	<1130		1130		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
Pentachlorophenol	<1130		1130		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
Phenanthrene	<1130		1130		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
Phenol	<1130		1130		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
Pyrene	<1130		1130		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
Pyridine	<1130	*- *1	1130		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
Total Cresols	<1130		1130		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
TPH-DRO (C10-C21)	<84600		84600		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5
TPH-ORO (C21-C35)	<84600	*-	84600		ug/Kg	✱	11/28/23 09:37	12/02/23 00:38	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	94		18 - 126	11/28/23 09:37	12/02/23 00:38	5
Phenol-d5 (Surr)	98		25 - 119	11/28/23 09:37	12/02/23 00:38	5

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB4 (15-17)B

Lab Sample ID: 310-269966-9

Date Collected: 11/16/23 15:00

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 83.8

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	98		15 - 131	11/28/23 09:37	12/02/23 00:38	5
2-Fluorobiphenyl (Surr)	103		28 - 116	11/28/23 09:37	12/02/23 00:38	5
2,4,6-Tribromophenol (Surr)	86		10 - 121	11/28/23 09:37	12/02/23 00:38	5
Terphenyl-d14 (Surr)	109		24 - 132	11/28/23 09:37	12/02/23 00:38	5

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7100		24.8		mg/Kg	☆	11/29/23 09:27	12/06/23 11:22	1
Antimony	<4.96		4.96		mg/Kg	☆	11/29/23 09:27	12/06/23 11:22	1
Arsenic	10.0		3.97		mg/Kg	☆	11/29/23 09:27	12/06/23 11:22	1
Barium	69.0		0.992		mg/Kg	☆	11/29/23 09:27	12/06/23 11:22	1
Beryllium	0.959		0.496		mg/Kg	☆	11/29/23 09:27	12/06/23 11:22	1
Cadmium	<0.992		0.992		mg/Kg	☆	11/29/23 09:27	12/06/23 11:22	1
Calcium	43500		99.2		mg/Kg	☆	11/29/23 09:27	12/06/23 11:22	1
Chromium	15.8		0.992		mg/Kg	☆	11/29/23 09:27	12/06/23 11:22	1
Cobalt	10.8		0.992		mg/Kg	☆	11/29/23 09:27	12/06/23 11:22	1
Copper	14.5		0.992		mg/Kg	☆	11/29/23 09:27	12/06/23 11:22	1
Iron	16400		49.6		mg/Kg	☆	11/29/23 09:27	12/06/23 11:22	1
Lead	9.44		4.96		mg/Kg	☆	11/29/23 09:27	12/06/23 11:22	1
Magnesium	7140		49.6		mg/Kg	☆	11/29/23 09:27	12/06/23 11:22	1
Manganese	464		2.48		mg/Kg	☆	11/29/23 09:27	12/06/23 11:22	1
Nickel	21.8		2.48		mg/Kg	☆	11/29/23 09:27	12/06/23 11:22	1
Potassium	1560		99.2		mg/Kg	☆	11/29/23 09:27	12/06/23 11:22	1
Selenium	<4.96		4.96		mg/Kg	☆	11/29/23 09:27	12/06/23 11:22	1
Silver	<0.992		0.992		mg/Kg	☆	11/29/23 09:27	12/06/23 11:22	1
Sodium	171		99.2		mg/Kg	☆	11/29/23 09:27	12/06/23 11:22	1
Thallium	<4.96		4.96		mg/Kg	☆	11/29/23 09:27	12/06/23 11:22	1
Vanadium	40.1		2.48		mg/Kg	☆	11/29/23 09:27	12/06/23 11:22	1
Zinc	51.7		4.96		mg/Kg	☆	11/29/23 09:27	12/06/23 11:22	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.03		0.180		mg/Kg	☆	12/06/23 09:36	12/07/23 11:07	10

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	16.2		0.1		%			11/20/23 08:50	1
Percent Solids (EPA Moisture)	83.8		0.1		%			11/20/23 08:50	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB5 (0-3)

Lab Sample ID: 310-269966-10

Date Collected: 11/17/23 09:30

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<3.37		3.37		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
1,1,1-Trichloroethane	<3.37		3.37		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
1,1,2,2-Tetrachloroethane	<3.37		3.37		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
1,1,2-Trichloroethane	<3.37		3.37		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
1,1-Dichloroethane	<3.37		3.37		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
1,1-Dichloroethene	<3.37		3.37		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
1,1-Dichloropropene	<3.37		3.37		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
1,2,3-Trichlorobenzene	<6.74		6.74		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
1,2,3-Trichloropropane	<3.37		3.37		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
1,2,4-Trichlorobenzene	<6.74		6.74		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
1,2,4-Trimethylbenzene	<3.37		3.37		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
1,2-Dibromo-3-chloropropane	<6.74		6.74		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
1,2-Dibromoethane (EDB)	<3.37		3.37		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
1,2-Dichlorobenzene	<3.37		3.37		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
1,2-Dichloroethane	<3.37		3.37		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
1,2-Dichloropropane	<3.37		3.37		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
1,3,5-Trimethylbenzene	<3.37		3.37		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
1,3-Dichlorobenzene	<3.37		3.37		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
1,3-Dichloropropane	<3.37		3.37		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
1,4-Dichlorobenzene	<3.37		3.37		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
2,2-Dichloropropane	<13.5		13.5		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
2-Butanone (MEK)	<13.5		13.5		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
2-Chlorotoluene	<3.37		3.37		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
4-Chlorotoluene	<3.37		3.37		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
Acetone	<33.7		33.7		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
Benzene	<3.37		3.37		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
Bromobenzene	<3.37		3.37		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
Bromochloromethane	<3.37		3.37		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
Bromodichloromethane	<3.37		3.37		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
Bromoform	<6.74		6.74		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
Bromomethane	<13.5		13.5		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
Carbon disulfide	<3.37		3.37		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
Carbon tetrachloride	<3.37		3.37		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
Chlorobenzene	<3.37		3.37		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
Chlorodibromomethane	<3.37		3.37		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
Chloroethane	<13.5		13.5		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
Chloroform	<3.37		3.37		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
Chloromethane	<13.5		13.5		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
cis-1,2-Dichloroethene	<3.37		3.37		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
cis-1,3-Dichloropropene	<3.37		3.37		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
Dibromomethane	<3.37		3.37		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
Dichlorodifluoromethane	<10.1		10.1		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
Ethylbenzene	<3.37		3.37		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
Hexachlorobutadiene	<16.9		16.9		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
Hexane	<16.9		16.9		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
Isopropylbenzene	<3.37		3.37		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
Methyl tert-butyl ether	<3.37		3.37		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
Methylene chloride	<33.7		33.7		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1
Naphthalene	<16.9		16.9		ug/Kg	☼	11/30/23 09:01	11/30/23 19:36	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB5 (0-3)

Lab Sample ID: 310-269966-10

Date Collected: 11/17/23 09:30

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	<3.37		3.37		ug/Kg	✱	11/30/23 09:01	11/30/23 19:36	1
n-Propylbenzene	<3.37		3.37		ug/Kg	✱	11/30/23 09:01	11/30/23 19:36	1
p-Isopropyltoluene	<3.37		3.37		ug/Kg	✱	11/30/23 09:01	11/30/23 19:36	1
sec-Butylbenzene	<3.37		3.37		ug/Kg	✱	11/30/23 09:01	11/30/23 19:36	1
Styrene	<3.37		3.37		ug/Kg	✱	11/30/23 09:01	11/30/23 19:36	1
tert-Butylbenzene	<3.37		3.37		ug/Kg	✱	11/30/23 09:01	11/30/23 19:36	1
Tetrachloroethene	<3.37		3.37		ug/Kg	✱	11/30/23 09:01	11/30/23 19:36	1
Toluene	<3.37		3.37		ug/Kg	✱	11/30/23 09:01	11/30/23 19:36	1
trans-1,2-Dichloroethene	<3.37		3.37		ug/Kg	✱	11/30/23 09:01	11/30/23 19:36	1
trans-1,3-Dichloropropene	<3.37		3.37		ug/Kg	✱	11/30/23 09:01	11/30/23 19:36	1
Trichloroethene	<3.37		3.37		ug/Kg	✱	11/30/23 09:01	11/30/23 19:36	1
Trichlorofluoromethane	<13.5		13.5		ug/Kg	✱	11/30/23 09:01	11/30/23 19:36	1
Vinyl chloride	<6.74		6.74		ug/Kg	✱	11/30/23 09:01	11/30/23 19:36	1
Xylenes, Total	<6.74		6.74		ug/Kg	✱	11/30/23 09:01	11/30/23 19:36	1
TPH-GRO (C6-C10)	<1350		1350		ug/Kg	✱	11/30/23 09:01	11/30/23 19:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	105		80 - 131	11/30/23 09:01	11/30/23 19:36	1
Toluene-d8 (Surr)	92		80 - 120	11/30/23 09:01	11/30/23 19:36	1
4-Bromofluorobenzene (Surr)	95		78 - 120	11/30/23 09:01	11/30/23 19:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
1,2-Dichlorobenzene	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
1,3-Dichlorobenzene	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
1,4-Dichlorobenzene	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
2,4,5-Trichlorophenol	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
2,4,6-Trichlorophenol	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
2,4-Dichlorophenol	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
2,4-Dimethylphenol	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
2,4-Dinitrophenol	<467		467		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
2,4-Dinitrotoluene	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
2,6-Dinitrotoluene	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
2-Chloronaphthalene	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
2-Chlorophenol	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
2-Methylnaphthalene	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
2-Methylphenol	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
2-Nitroaniline	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
2-Nitrophenol	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
3,3'-Dichlorobenzidine	<467		467		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
3-Nitroaniline	<234	*-	234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
4,6-Dinitro-2-methylphenol	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
4-Bromophenyl phenyl ether	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
4-Chloro-3-methylphenol	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
4-Chloroaniline	<234	*- *1	234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
4-Chlorophenyl phenyl ether	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
4-Methylphenol (and/or 3-Methylphenol)	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
4-Nitroaniline	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB5 (0-3)

Lab Sample ID: 310-269966-10

Date Collected: 11/17/23 09:30

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
Acenaphthene	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
Acenaphthylene	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
Anthracene	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
Benzidine	<467		467		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
Benzo(a)anthracene	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
Benzo(a)pyrene	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
Benzo(b)fluoranthene	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
Benzo(g,h,i)perylene	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
Benzo(k)fluoranthene	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
Benzoic acid	<1170		1170		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
Benzyl alcohol	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
Bis(2-chloroethoxy)methane	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
Bis(2-chloroethyl)ether	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
bis(2-chloroisopropyl) ether	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
Bis(2-ethylhexyl) phthalate	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
Butyl benzyl phthalate	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
Carbazole	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
Chrysene	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
Dibenzo(a,h)anthracene	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
Dibenzofuran	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
Diethyl phthalate	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
Dimethyl phthalate	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
Di-n-butyl phthalate	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
Di-n-octyl phthalate	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
Fluoranthene	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
Fluorene	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
Hexachlorobenzene	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
Hexachlorobutadiene	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
Hexachlorocyclopentadiene	<467		467		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
Hexachloroethane	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
Indeno(1,2,3-cd)pyrene	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
Isophorone	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
Naphthalene	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
Nitrobenzene	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
N-Nitrosodimethylamine	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
N-Nitrosodi-n-propylamine	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
N-Nitrosodiphenylamine	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
Pentachlorophenol	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
Phenanthrene	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
Phenol	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
Pyrene	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
Pyridine	<234	*- *1	234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
Total Cresols	<234		234		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
TPH-DRO (C10-C21)	<17500		17500		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1
TPH-ORO (C21-C35)	<17500	*-	17500		ug/Kg	✱	11/28/23 09:37	12/02/23 01:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	78		18 - 126	11/28/23 09:37	12/02/23 01:05	1
Phenol-d5 (Surr)	79		25 - 119	11/28/23 09:37	12/02/23 01:05	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB5 (0-3)

Lab Sample ID: 310-269966-10

Date Collected: 11/17/23 09:30

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 82.6

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	88		15 - 131	11/28/23 09:37	12/02/23 01:05	1
2-Fluorobiphenyl (Surr)	78		28 - 116	11/28/23 09:37	12/02/23 01:05	1
2,4,6-Tribromophenol (Surr)	84		10 - 121	11/28/23 09:37	12/02/23 01:05	1
Terphenyl-d14 (Surr)	99		24 - 132	11/28/23 09:37	12/02/23 01:05	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10900		26.1		mg/Kg	☆	11/29/23 09:27	12/06/23 11:24	1
Antimony	<5.22		5.22		mg/Kg	☆	11/29/23 09:27	12/06/23 11:24	1
Arsenic	11.7		4.18		mg/Kg	☆	11/29/23 09:27	12/06/23 11:24	1
Barium	345		1.04		mg/Kg	☆	11/29/23 09:27	12/06/23 11:24	1
Beryllium	1.19		0.522		mg/Kg	☆	11/29/23 09:27	12/06/23 11:24	1
Cadmium	<1.04		1.04		mg/Kg	☆	11/29/23 09:27	12/06/23 11:24	1
Calcium	5080		104		mg/Kg	☆	11/29/23 09:27	12/06/23 11:24	1
Chromium	22.2		1.04		mg/Kg	☆	11/29/23 09:27	12/06/23 11:24	1
Cobalt	16.4		1.04		mg/Kg	☆	11/29/23 09:27	12/06/23 11:24	1
Copper	16.8		1.04		mg/Kg	☆	11/29/23 09:27	12/06/23 11:24	1
Iron	19000		52.2		mg/Kg	☆	11/29/23 09:27	12/06/23 11:24	1
Lead	10.9		5.22		mg/Kg	☆	11/29/23 09:27	12/06/23 11:24	1
Magnesium	2630		52.2		mg/Kg	☆	11/29/23 09:27	12/06/23 11:24	1
Manganese	1410		2.61		mg/Kg	☆	11/29/23 09:27	12/06/23 11:24	1
Nickel	35.8		2.61		mg/Kg	☆	11/29/23 09:27	12/06/23 11:24	1
Potassium	1430		104		mg/Kg	☆	11/29/23 09:27	12/06/23 11:24	1
Selenium	<5.22		5.22		mg/Kg	☆	11/29/23 09:27	12/06/23 11:24	1
Silver	<1.04		1.04		mg/Kg	☆	11/29/23 09:27	12/06/23 11:24	1
Sodium	147		104		mg/Kg	☆	11/29/23 09:27	12/06/23 11:24	1
Thallium	<5.22		5.22		mg/Kg	☆	11/29/23 09:27	12/06/23 11:24	1
Vanadium	56.0		2.61		mg/Kg	☆	11/29/23 09:27	12/06/23 11:24	1
Zinc	61.7		5.22		mg/Kg	☆	11/29/23 09:27	12/06/23 11:24	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0723		0.0199		mg/Kg	☆	12/06/23 09:38	12/07/23 12:11	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	17.4		0.1		%			11/20/23 09:51	1
Percent Solids (EPA Moisture)	82.6		0.1		%			11/20/23 09:51	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB5 (18-20)

Lab Sample ID: 310-269966-11

Date Collected: 11/17/23 09:40

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
1,1,1-Trichloroethane	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
1,1,2,2-Tetrachloroethane	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
1,1,2-Trichloroethane	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
1,1-Dichloroethane	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
1,1-Dichloroethene	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
1,1-Dichloropropene	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
1,2,3-Trichlorobenzene	<8.23		8.23		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
1,2,3-Trichloropropane	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
1,2,4-Trichlorobenzene	<8.23		8.23		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
1,2,4-Trimethylbenzene	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
1,2-Dibromo-3-chloropropane	<8.23		8.23		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
1,2-Dibromoethane (EDB)	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
1,2-Dichlorobenzene	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
1,2-Dichloroethane	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
1,2-Dichloropropane	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
1,3,5-Trimethylbenzene	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
1,3-Dichlorobenzene	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
1,3-Dichloropropane	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
1,4-Dichlorobenzene	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
2,2-Dichloropropane	<16.5		16.5		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
2-Butanone (MEK)	<16.5		16.5		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
2-Chlorotoluene	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
4-Chlorotoluene	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
Acetone	<41.2		41.2		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
Benzene	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
Bromobenzene	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
Bromochloromethane	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
Bromodichloromethane	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
Bromoform	<8.23		8.23		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
Bromomethane	<16.5		16.5		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
Carbon disulfide	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
Carbon tetrachloride	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
Chlorobenzene	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
Chlorodibromomethane	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
Chloroethane	<16.5		16.5		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
Chloroform	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
Chloromethane	<16.5		16.5		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
cis-1,2-Dichloroethene	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
cis-1,3-Dichloropropene	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
Dibromomethane	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
Dichlorodifluoromethane	<12.3		12.3		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
Ethylbenzene	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
Hexachlorobutadiene	<20.6		20.6		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
Hexane	<20.6		20.6		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
Isopropylbenzene	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
Methyl tert-butyl ether	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
Methylene chloride	<41.2		41.2		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
Naphthalene	<20.6		20.6		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB5 (18-20)

Lab Sample ID: 310-269966-11

Date Collected: 11/17/23 09:40

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
n-Propylbenzene	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
p-Isopropyltoluene	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
sec-Butylbenzene	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
Styrene	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
tert-Butylbenzene	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
Tetrachloroethene	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
Toluene	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
trans-1,2-Dichloroethene	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
trans-1,3-Dichloropropene	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
Trichloroethene	<4.12		4.12		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
Trichlorofluoromethane	<16.5		16.5		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
Vinyl chloride	<8.23		8.23		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
Xylenes, Total	<8.23		8.23		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1
TPH-GRO (C6-C10)	<1650		1650		ug/Kg	☼	11/30/23 09:01	11/30/23 20:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	106		80 - 131	11/30/23 09:01	11/30/23 20:00	1
Toluene-d8 (Surr)	96		80 - 120	11/30/23 09:01	11/30/23 20:00	1
4-Bromofluorobenzene (Surr)	90		78 - 120	11/30/23 09:01	11/30/23 20:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<1140		1140		ug/Kg	☼	11/28/23 09:37	12/02/23 01:31	5
1,2-Dichlorobenzene	<1140		1140		ug/Kg	☼	11/28/23 09:37	12/02/23 01:31	5
1,3-Dichlorobenzene	<1140		1140		ug/Kg	☼	11/28/23 09:37	12/02/23 01:31	5
1,4-Dichlorobenzene	<1140		1140		ug/Kg	☼	11/28/23 09:37	12/02/23 01:31	5
2,4,5-Trichlorophenol	<1140		1140		ug/Kg	☼	11/28/23 09:37	12/02/23 01:31	5
2,4,6-Trichlorophenol	<1140		1140		ug/Kg	☼	11/28/23 09:37	12/02/23 01:31	5
2,4-Dichlorophenol	<1140		1140		ug/Kg	☼	11/28/23 09:37	12/02/23 01:31	5
2,4-Dimethylphenol	<1140		1140		ug/Kg	☼	11/28/23 09:37	12/02/23 01:31	5
2,4-Dinitrophenol	<2280		2280		ug/Kg	☼	11/28/23 09:37	12/02/23 01:31	5
2,4-Dinitrotoluene	<1140		1140		ug/Kg	☼	11/28/23 09:37	12/02/23 01:31	5
2,6-Dinitrotoluene	<1140		1140		ug/Kg	☼	11/28/23 09:37	12/02/23 01:31	5
2-Chloronaphthalene	<1140		1140		ug/Kg	☼	11/28/23 09:37	12/02/23 01:31	5
2-Chlorophenol	<1140		1140		ug/Kg	☼	11/28/23 09:37	12/02/23 01:31	5
2-Methylnaphthalene	<1140		1140		ug/Kg	☼	11/28/23 09:37	12/02/23 01:31	5
2-Methylphenol	<1140		1140		ug/Kg	☼	11/28/23 09:37	12/02/23 01:31	5
2-Nitroaniline	<1140		1140		ug/Kg	☼	11/28/23 09:37	12/02/23 01:31	5
2-Nitrophenol	<1140		1140		ug/Kg	☼	11/28/23 09:37	12/02/23 01:31	5
3,3'-Dichlorobenzidine	<2280		2280		ug/Kg	☼	11/28/23 09:37	12/02/23 01:31	5
3-Nitroaniline	<1140	*-	1140		ug/Kg	☼	11/28/23 09:37	12/02/23 01:31	5
4,6-Dinitro-2-methylphenol	<1140		1140		ug/Kg	☼	11/28/23 09:37	12/02/23 01:31	5
4-Bromophenyl phenyl ether	<1140		1140		ug/Kg	☼	11/28/23 09:37	12/02/23 01:31	5
4-Chloro-3-methylphenol	<1140		1140		ug/Kg	☼	11/28/23 09:37	12/02/23 01:31	5
4-Chloroaniline	<1140	*- *1	1140		ug/Kg	☼	11/28/23 09:37	12/02/23 01:31	5
4-Chlorophenyl phenyl ether	<1140		1140		ug/Kg	☼	11/28/23 09:37	12/02/23 01:31	5
4-Methylphenol (and/or 3-Methylphenol)	<1140		1140		ug/Kg	☼	11/28/23 09:37	12/02/23 01:31	5
4-Nitroaniline	<1140		1140		ug/Kg	☼	11/28/23 09:37	12/02/23 01:31	5

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB5 (18-20)

Lab Sample ID: 310-269966-11

Date Collected: 11/17/23 09:40

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<1140		1140		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
Acenaphthene	<1140		1140		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
Acenaphthylene	<1140		1140		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
Anthracene	<1140		1140		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
Benzidine	<2280		2280		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
Benzo(a)anthracene	<1140		1140		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
Benzo(a)pyrene	<1140		1140		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
Benzo(b)fluoranthene	<1140		1140		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
Benzo(g,h,i)perylene	<1140		1140		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
Benzo(k)fluoranthene	<1140		1140		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
Benzoic acid	<5690		5690		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
Benzyl alcohol	<1140		1140		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
Bis(2-chloroethoxy)methane	<1140		1140		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
Bis(2-chloroethyl)ether	<1140		1140		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
bis(2-chloroisopropyl) ether	<1140		1140		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
Bis(2-ethylhexyl) phthalate	<1140		1140		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
Butyl benzyl phthalate	<1140		1140		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
Carbazole	<1140		1140		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
Chrysene	<1140		1140		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
Dibenzo(a,h)anthracene	<1140		1140		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
Dibenzofuran	<1140		1140		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
Diethyl phthalate	<1140		1140		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
Dimethyl phthalate	<1140		1140		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
Di-n-butyl phthalate	<1140		1140		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
Di-n-octyl phthalate	<1140		1140		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
Fluoranthene	<1140		1140		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
Fluorene	<1140		1140		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
Hexachlorobenzene	<1140		1140		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
Hexachlorobutadiene	<1140		1140		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
Hexachlorocyclopentadiene	<2280		2280		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
Hexachloroethane	<1140		1140		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
Indeno(1,2,3-cd)pyrene	<1140		1140		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
Isophorone	<1140		1140		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
Naphthalene	<1140		1140		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
Nitrobenzene	<1140		1140		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
N-Nitrosodimethylamine	<1140		1140		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
N-Nitrosodi-n-propylamine	<1140		1140		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
N-Nitrosodiphenylamine	<1140		1140		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
Pentachlorophenol	<1140		1140		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
Phenanthrene	<1140		1140		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
Phenol	<1140		1140		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
Pyrene	<1140		1140		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
Pyridine	<1140	*- *1	1140		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
Total Cresols	<1140		1140		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
TPH-DRO (C10-C21)	<85400		85400		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5
TPH-ORO (C21-C35)	<85400	*-	85400		ug/Kg	✱	11/28/23 09:37	12/02/23 01:31	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	83		18 - 126	11/28/23 09:37	12/02/23 01:31	5
Phenol-d5 (Surr)	87		25 - 119	11/28/23 09:37	12/02/23 01:31	5

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB5 (18-20)

Lab Sample ID: 310-269966-11

Date Collected: 11/17/23 09:40

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 84.6

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	88		15 - 131	11/28/23 09:37	12/02/23 01:31	5
2-Fluorobiphenyl (Surr)	94		28 - 116	11/28/23 09:37	12/02/23 01:31	5
2,4,6-Tribromophenol (Surr)	83		10 - 121	11/28/23 09:37	12/02/23 01:31	5
Terphenyl-d14 (Surr)	102		24 - 132	11/28/23 09:37	12/02/23 01:31	5

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2880		23.6		mg/Kg	✱	11/29/23 09:27	12/06/23 11:29	1
Antimony	<4.72		4.72		mg/Kg	✱	11/29/23 09:27	12/06/23 11:29	1
Arsenic	8.12		3.78		mg/Kg	✱	11/29/23 09:27	12/06/23 11:29	1
Barium	82.2		0.944		mg/Kg	✱	11/29/23 09:27	12/06/23 11:29	1
Beryllium	0.554		0.472		mg/Kg	✱	11/29/23 09:27	12/06/23 11:29	1
Cadmium	<0.944		0.944		mg/Kg	✱	11/29/23 09:27	12/06/23 11:29	1
Calcium	35600		94.4		mg/Kg	✱	11/29/23 09:27	12/06/23 11:29	1
Chromium	8.02		0.944		mg/Kg	✱	11/29/23 09:27	12/06/23 11:29	1
Cobalt	4.16		0.944		mg/Kg	✱	11/29/23 09:27	12/06/23 11:29	1
Copper	7.85		0.944		mg/Kg	✱	11/29/23 09:27	12/06/23 11:29	1
Iron	12600		47.2		mg/Kg	✱	11/29/23 09:27	12/06/23 11:29	1
Lead	5.46		4.72		mg/Kg	✱	11/29/23 09:27	12/06/23 11:29	1
Magnesium	6030		47.2		mg/Kg	✱	11/29/23 09:27	12/06/23 11:29	1
Manganese	245		2.36		mg/Kg	✱	11/29/23 09:27	12/06/23 11:29	1
Nickel	13.3		2.36		mg/Kg	✱	11/29/23 09:27	12/06/23 11:29	1
Potassium	686		94.4		mg/Kg	✱	11/29/23 09:27	12/06/23 11:29	1
Selenium	<4.72		4.72		mg/Kg	✱	11/29/23 09:27	12/06/23 11:29	1
Silver	<0.944		0.944		mg/Kg	✱	11/29/23 09:27	12/06/23 11:29	1
Sodium	167		94.4		mg/Kg	✱	11/29/23 09:27	12/06/23 11:29	1
Thallium	<4.72		4.72		mg/Kg	✱	11/29/23 09:27	12/06/23 11:29	1
Vanadium	23.4		2.36		mg/Kg	✱	11/29/23 09:27	12/06/23 11:29	1
Zinc	40.0		4.72		mg/Kg	✱	11/29/23 09:27	12/06/23 11:29	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0500		0.0207		mg/Kg	✱	12/06/23 09:38	12/07/23 12:13	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	15.4		0.1		%			11/20/23 09:51	1
Percent Solids (EPA Moisture)	84.6		0.1		%			11/20/23 09:51	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: GW2A

Lab Sample ID: 310-269966-12

Date Collected: 11/16/23 11:35

Matrix: Water

Date Received: 11/18/23 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00		ug/L			11/29/23 15:57	1
1,1,1-Trichloroethane	<1.00		1.00		ug/L			11/29/23 15:57	1
1,1,2,2-Tetrachloroethane	<1.00		1.00		ug/L			11/29/23 15:57	1
1,1,2-Trichloroethane	<1.00		1.00		ug/L			11/29/23 15:57	1
1,1-Dichloroethane	<1.00		1.00		ug/L			11/30/23 18:05	1
1,1-Dichloroethene	<2.00		2.00		ug/L			11/29/23 15:57	1
1,1-Dichloropropene	<1.00		1.00		ug/L			11/29/23 15:57	1
1,2,3-Trichlorobenzene	<5.00		5.00		ug/L			11/29/23 15:57	1
1,2,3-Trichloropropane	<1.00		1.00		ug/L			11/29/23 15:57	1
1,2,4-Trichlorobenzene	<5.00		5.00		ug/L			11/29/23 15:57	1
1,2,4-Trimethylbenzene	<1.00		1.00		ug/L			11/29/23 15:57	1
1,2-Dibromo-3-chloropropane	<5.00		5.00		ug/L			11/29/23 15:57	1
1,2-Dibromoethane (EDB)	<1.00		1.00		ug/L			11/29/23 15:57	1
1,2-Dichlorobenzene	<1.00		1.00		ug/L			11/29/23 15:57	1
1,2-Dichloroethane	<1.00		1.00		ug/L			11/29/23 15:57	1
1,2-Dichloropropane	<1.00		1.00		ug/L			11/29/23 15:57	1
1,3,5-Trimethylbenzene	<1.00		1.00		ug/L			11/29/23 15:57	1
1,3-Dichlorobenzene	<1.00		1.00		ug/L			11/29/23 15:57	1
1,3-Dichloropropane	<1.00		1.00		ug/L			11/29/23 15:57	1
1,4-Dichlorobenzene	<1.00		1.00		ug/L			11/29/23 15:57	1
2,2-Dichloropropane	<4.00		4.00		ug/L			11/30/23 18:05	1
2-Butanone (MEK)	<10.0		10.0		ug/L			11/29/23 15:57	1
2-Chlorotoluene	<1.00		1.00		ug/L			11/29/23 15:57	1
4-Chlorotoluene	<1.00		1.00		ug/L			11/29/23 15:57	1
Acetone	<10.0		10.0		ug/L			11/29/23 15:57	1
Benzene	<0.500		0.500		ug/L			11/29/23 15:57	1
Bromobenzene	<1.00		1.00		ug/L			11/29/23 15:57	1
Bromochloromethane	<5.00		5.00		ug/L			11/29/23 15:57	1
Bromodichloromethane	<1.00		1.00		ug/L			11/29/23 15:57	1
Bromoform	<5.00		5.00		ug/L			11/29/23 15:57	1
Bromomethane	<4.00		4.00		ug/L			11/29/23 15:57	1
Carbon disulfide	<1.00		1.00		ug/L			11/29/23 15:57	1
Carbon tetrachloride	<2.00		2.00		ug/L			11/29/23 15:57	1
Chlorobenzene	<1.00		1.00		ug/L			11/29/23 15:57	1
Chlorodibromomethane	<5.00		5.00		ug/L			11/29/23 15:57	1
Chloroethane	<4.00		4.00		ug/L			11/29/23 15:57	1
Chloroform	<3.00		3.00		ug/L			11/29/23 15:57	1
Chloromethane	<3.00		3.00		ug/L			11/29/23 15:57	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			11/29/23 15:57	1
cis-1,3-Dichloropropene	<5.00		5.00		ug/L			11/29/23 15:57	1
Dibromomethane	<1.00		1.00		ug/L			11/29/23 15:57	1
Dichlorodifluoromethane	<3.00		3.00		ug/L			11/29/23 15:57	1
Ethylbenzene	<1.00		1.00		ug/L			11/29/23 15:57	1
Hexachlorobutadiene	<5.00		5.00		ug/L			11/29/23 15:57	1
Hexane	<1.00		1.00		ug/L			11/29/23 15:57	1
Isopropylbenzene	<1.00		1.00		ug/L			11/29/23 15:57	1
Methyl tert-butyl ether	<1.00		1.00		ug/L			11/29/23 15:57	1
Methylene chloride	<5.00		5.00		ug/L			11/29/23 15:57	1
Naphthalene	<5.00		5.00		ug/L			11/29/23 15:57	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: GW2A

Lab Sample ID: 310-269966-12

Date Collected: 11/16/23 11:35

Matrix: Water

Date Received: 11/18/23 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	<1.00		1.00		ug/L			11/29/23 15:57	1
n-Propylbenzene	<1.00		1.00		ug/L			11/29/23 15:57	1
p-Isopropyltoluene	<1.00		1.00		ug/L			11/29/23 15:57	1
sec-Butylbenzene	<1.00		1.00		ug/L			11/29/23 15:57	1
Styrene	<1.00		1.00		ug/L			11/29/23 15:57	1
tert-Butylbenzene	<1.00		1.00		ug/L			11/29/23 15:57	1
Tetrachloroethene	<1.00		1.00		ug/L			11/29/23 15:57	1
Toluene	<1.00		1.00		ug/L			11/29/23 15:57	1
trans-1,2-Dichloroethene	<1.00		1.00		ug/L			11/29/23 15:57	1
trans-1,3-Dichloropropene	<5.00		5.00		ug/L			11/29/23 15:57	1
Trichloroethene	<1.00		1.00		ug/L			11/29/23 15:57	1
Trichlorofluoromethane	<4.00		4.00		ug/L			11/30/23 18:05	1
Vinyl chloride	<1.00		1.00		ug/L			11/30/23 18:05	1
Xylenes, Total	<3.00		3.00		ug/L			11/29/23 15:57	1
TPH-GRO (C6-C10)	<400		400		ug/L			11/29/23 15:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	91		80 - 128		11/29/23 15:57	1
Dibromofluoromethane (Surr)	109		80 - 128		11/30/23 18:05	1
Toluene-d8 (Surr)	107		80 - 120		11/29/23 15:57	1
Toluene-d8 (Surr)	91		80 - 120		11/30/23 18:05	1
4-Bromofluorobenzene (Surr)	100		80 - 120		11/29/23 15:57	1
4-Bromofluorobenzene (Surr)	109		80 - 120		11/30/23 18:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
1,2-Dichlorobenzene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
1,3-Dichlorobenzene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
1,4-Dichlorobenzene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
2,4,5-Trichlorophenol	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
2,4,6-Trichlorophenol	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
2,4-Dichlorophenol	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
2,4-Dimethylphenol	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
2,4-Dinitrophenol	<20.0		20.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
2,4-Dinitrotoluene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
2,6-Dinitrotoluene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
2-Chloronaphthalene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
2-Chlorophenol	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
2-Methylnaphthalene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
2-Methylphenol	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
2-Nitroaniline	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
2-Nitrophenol	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
3,3'-Dichlorobenzidine	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
3-Nitroaniline	<10.0	*	10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
4,6-Dinitro-2-methylphenol	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
4-Bromophenyl phenyl ether	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
4-Chloro-3-methylphenol	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
4-Chloroaniline	<10.0	*- *1	10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
4-Chlorophenyl phenyl ether	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1

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Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: GW2A

Lab Sample ID: 310-269966-12

Date Collected: 11/16/23 11:35

Matrix: Water

Date Received: 11/18/23 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methylphenol (and/or 3-Methylphenol)	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
4-Nitroaniline	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
4-Nitrophenol	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
Acenaphthene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
Acenaphthylene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
Anthracene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
Benzidine	<20.0		20.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
Benzo(a)anthracene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
Benzo(a)pyrene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
Benzo(b)fluoranthene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
Benzo(g,h,i)perylene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
Benzo(k)fluoranthene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
Benzoic acid	<100		100		ug/L		11/21/23 05:22	12/01/23 20:11	1
Benzyl alcohol	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
Bis(2-chloroethoxy)methane	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
Bis(2-chloroethyl)ether	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
bis(2-chloroisopropyl) ether	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
Bis(2-ethylhexyl) phthalate	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
Butyl benzyl phthalate	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
Carbazole	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
Chrysene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
Dibenzo(a,h)anthracene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
Dibenzofuran	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
Diethyl phthalate	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
Dimethyl phthalate	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
Di-n-butyl phthalate	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
Di-n-octyl phthalate	<20.0		20.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
Fluoranthene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
Fluorene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
Hexachlorobenzene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
Hexachlorobutadiene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
Hexachlorocyclopentadiene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
Hexachloroethane	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
Indeno(1,2,3-cd)pyrene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
Isophorone	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
Naphthalene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
Nitrobenzene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
N-Nitrosodimethylamine	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
N-Nitrosodi-n-propylamine	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
N-Nitrosodiphenylamine	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
Pentachlorophenol	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
Phenanthrene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
Phenol	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
Pyrene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
Pyridine	<10.0	*- *1	10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
Total Cresols	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 20:11	1
TPH-DRO (C10-C21)	<500		500		ug/L		11/21/23 05:22	12/01/23 20:11	1
TPH-ORO (C21-C35)	<500	*-	500		ug/L		11/21/23 05:22	12/01/23 20:11	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: GW2A

Lab Sample ID: 310-269966-12

Date Collected: 11/16/23 11:35

Matrix: Water

Date Received: 11/18/23 08:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	73		25 - 110	11/21/23 05:22	12/01/23 20:11	1
Phenol-d5 (Surr)	60		21 - 110	11/21/23 05:22	12/01/23 20:11	1
Nitrobenzene-d5 (Surr)	97		45 - 129	11/21/23 05:22	12/01/23 20:11	1
2-Fluorobiphenyl (Surr)	83		39 - 118	11/21/23 05:22	12/01/23 20:11	1
2,4,6-Tribromophenol (Surr)	92		27 - 136	11/21/23 05:22	12/01/23 20:11	1
Terphenyl-d14 (Surr)	87		12 - 144	11/21/23 05:22	12/01/23 20:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2.91		0.0500		mg/L		11/21/23 09:35	11/23/23 01:42	1
Antimony	<0.00200		0.00200		mg/L		11/21/23 09:35	11/23/23 01:42	1
Arsenic	0.00761		0.00200		mg/L		11/21/23 09:35	11/23/23 01:42	1
Barium	0.135		0.00200		mg/L		11/21/23 09:35	11/23/23 01:42	1
Beryllium	<0.00100		0.00100		mg/L		11/21/23 09:35	11/23/23 01:42	1
Cadmium	0.00387		0.000200		mg/L		11/21/23 09:35	11/23/23 01:42	1
Calcium	1040		2.00		mg/L		11/21/23 09:35	11/27/23 12:21	4
Chromium	0.0286		0.00500		mg/L		11/21/23 09:35	11/23/23 01:42	1
Cobalt	0.0247		0.000500		mg/L		11/21/23 09:35	11/23/23 01:42	1
Copper	0.0309		0.00500		mg/L		11/21/23 09:35	11/23/23 01:42	1
Iron	32.0		0.100		mg/L		11/21/23 09:35	11/23/23 01:42	1
Lead	0.00817		0.000500		mg/L		11/21/23 09:35	11/23/23 01:42	1
Magnesium	130		2.00		mg/L		11/21/23 09:35	11/27/23 12:21	4
Manganese	5.16		0.0400		mg/L		11/21/23 09:35	11/28/23 15:17	4
Nickel	0.0789		0.00500		mg/L		11/21/23 09:35	11/23/23 01:42	1
Potassium	6.17		0.500		mg/L		11/21/23 09:35	11/23/23 01:42	1
Selenium	<0.00500		0.00500		mg/L		11/21/23 09:35	11/23/23 01:42	1
Silver	<0.00100		0.00100		mg/L		11/21/23 09:35	11/23/23 01:42	1
Sodium	72.4		1.00		mg/L		11/21/23 09:35	11/23/23 01:42	1
Thallium	<0.00100		0.00100		mg/L		11/21/23 09:35	11/23/23 01:42	1
Vanadium	0.0189		0.00500		mg/L		11/21/23 09:35	11/23/23 01:42	1
Zinc	0.0991		0.0200		mg/L		11/21/23 09:35	11/23/23 01:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0500		0.0500		mg/L		11/27/23 09:35	11/29/23 12:13	1
Antimony	<0.00200		0.00200		mg/L		11/27/23 09:35	11/29/23 12:13	1
Arsenic	<0.00200		0.00200		mg/L		11/27/23 09:35	11/29/23 12:13	1
Barium	0.0380		0.00200		mg/L		11/27/23 09:35	11/29/23 12:13	1
Beryllium	<0.00100		0.00100		mg/L		11/27/23 09:35	11/29/23 12:13	1
Cadmium	<0.000200		0.000200		mg/L		11/27/23 09:35	11/29/23 12:13	1
Calcium	434		0.500		mg/L		11/27/23 09:35	11/29/23 12:13	1
Chromium	<0.00500		0.00500		mg/L		11/27/23 09:35	11/29/23 12:13	1
Cobalt	0.0108		0.000500		mg/L		11/27/23 09:35	11/29/23 12:13	1
Copper	<0.00500		0.00500		mg/L		11/27/23 09:35	11/29/23 12:13	1
Iron	9.17		0.100		mg/L		11/27/23 09:35	11/29/23 12:13	1
Lead	<0.000500		0.000500		mg/L		11/27/23 09:35	11/29/23 12:13	1
Magnesium	98.9		2.00		mg/L		11/27/23 09:35	11/29/23 13:39	4
Manganese	2.62		0.0100		mg/L		11/27/23 09:35	11/29/23 12:13	1
Nickel	0.0282		0.00500		mg/L		11/27/23 09:35	11/29/23 12:13	1
Potassium	5.20		0.500		mg/L		11/27/23 09:35	11/29/23 12:13	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: GW2A

Lab Sample ID: 310-269966-12

Date Collected: 11/16/23 11:35

Matrix: Water

Date Received: 11/18/23 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.00500		0.00500		mg/L		11/27/23 09:35	11/29/23 12:13	1
Silver	<0.00100		0.00100		mg/L		11/27/23 09:35	11/29/23 12:13	1
Sodium	71.7		1.00		mg/L		11/27/23 09:35	11/29/23 12:13	1
Thallium	<0.00100		0.00100		mg/L		11/27/23 09:35	11/29/23 12:13	1
Vanadium	<0.00500		0.00500		mg/L		11/27/23 09:35	11/29/23 12:13	1
Zinc	0.0228		0.0200		mg/L		11/27/23 09:35	11/29/23 12:13	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		12/07/23 13:18	12/08/23 13:12	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		12/07/23 13:11	12/08/23 11:08	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: GW2B

Lab Sample ID: 310-269966-13

Date Collected: 11/16/23 11:50

Matrix: Water

Date Received: 11/18/23 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00		ug/L			11/29/23 16:21	1
1,1,1-Trichloroethane	<1.00		1.00		ug/L			11/29/23 16:21	1
1,1,2,2-Tetrachloroethane	<1.00		1.00		ug/L			11/29/23 16:21	1
1,1,2-Trichloroethane	<1.00		1.00		ug/L			11/29/23 16:21	1
1,1-Dichloroethane	<1.00		1.00		ug/L			11/30/23 15:10	1
1,1-Dichloroethene	<2.00		2.00		ug/L			11/29/23 16:21	1
1,1-Dichloropropene	<1.00		1.00		ug/L			11/29/23 16:21	1
1,2,3-Trichlorobenzene	<5.00		5.00		ug/L			11/29/23 16:21	1
1,2,3-Trichloropropane	<1.00		1.00		ug/L			11/29/23 16:21	1
1,2,4-Trichlorobenzene	<5.00		5.00		ug/L			11/29/23 16:21	1
1,2,4-Trimethylbenzene	<1.00		1.00		ug/L			11/29/23 16:21	1
1,2-Dibromo-3-chloropropane	<5.00		5.00		ug/L			11/29/23 16:21	1
1,2-Dibromoethane (EDB)	<1.00		1.00		ug/L			11/29/23 16:21	1
1,2-Dichlorobenzene	<1.00		1.00		ug/L			11/29/23 16:21	1
1,2-Dichloroethane	<1.00		1.00		ug/L			11/29/23 16:21	1
1,2-Dichloropropane	<1.00		1.00		ug/L			11/29/23 16:21	1
1,3,5-Trimethylbenzene	<1.00		1.00		ug/L			11/29/23 16:21	1
1,3-Dichlorobenzene	<1.00		1.00		ug/L			11/29/23 16:21	1
1,3-Dichloropropane	<1.00		1.00		ug/L			11/29/23 16:21	1
1,4-Dichlorobenzene	<1.00		1.00		ug/L			11/29/23 16:21	1
2,2-Dichloropropane	<4.00		4.00		ug/L			11/30/23 15:10	1
2-Butanone (MEK)	<10.0		10.0		ug/L			11/29/23 16:21	1
2-Chlorotoluene	<1.00		1.00		ug/L			11/29/23 16:21	1
4-Chlorotoluene	<1.00		1.00		ug/L			11/29/23 16:21	1
Acetone	<10.0		10.0		ug/L			11/29/23 16:21	1
Benzene	<0.500		0.500		ug/L			11/29/23 16:21	1
Bromobenzene	<1.00		1.00		ug/L			11/29/23 16:21	1
Bromochloromethane	<5.00		5.00		ug/L			11/29/23 16:21	1
Bromodichloromethane	<1.00		1.00		ug/L			11/29/23 16:21	1
Bromoform	<5.00		5.00		ug/L			11/29/23 16:21	1
Bromomethane	<4.00		4.00		ug/L			11/29/23 16:21	1
Carbon disulfide	<1.00		1.00		ug/L			11/29/23 16:21	1
Carbon tetrachloride	<2.00		2.00		ug/L			11/29/23 16:21	1
Chlorobenzene	<1.00		1.00		ug/L			11/29/23 16:21	1
Chlorodibromomethane	<5.00		5.00		ug/L			11/29/23 16:21	1
Chloroethane	<4.00		4.00		ug/L			11/29/23 16:21	1
Chloroform	<3.00		3.00		ug/L			11/29/23 16:21	1
Chloromethane	<3.00		3.00		ug/L			11/29/23 16:21	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			11/29/23 16:21	1
cis-1,3-Dichloropropene	<5.00		5.00		ug/L			11/29/23 16:21	1
Dibromomethane	<1.00		1.00		ug/L			11/29/23 16:21	1
Dichlorodifluoromethane	<3.00		3.00		ug/L			11/29/23 16:21	1
Ethylbenzene	<1.00		1.00		ug/L			11/29/23 16:21	1
Hexachlorobutadiene	<5.00		5.00		ug/L			11/29/23 16:21	1
Hexane	<1.00		1.00		ug/L			11/29/23 16:21	1
Isopropylbenzene	<1.00		1.00		ug/L			11/29/23 16:21	1
Methyl tert-butyl ether	<1.00		1.00		ug/L			11/29/23 16:21	1
Methylene chloride	<5.00		5.00		ug/L			11/29/23 16:21	1
Naphthalene	<5.00		5.00		ug/L			11/29/23 16:21	1

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Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: GW2B

Lab Sample ID: 310-269966-13

Date Collected: 11/16/23 11:50

Matrix: Water

Date Received: 11/18/23 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	<1.00		1.00		ug/L			11/29/23 16:21	1
n-Propylbenzene	<1.00		1.00		ug/L			11/29/23 16:21	1
p-Isopropyltoluene	<1.00		1.00		ug/L			11/29/23 16:21	1
sec-Butylbenzene	<1.00		1.00		ug/L			11/29/23 16:21	1
Styrene	<1.00		1.00		ug/L			11/29/23 16:21	1
tert-Butylbenzene	<1.00		1.00		ug/L			11/29/23 16:21	1
Tetrachloroethene	<1.00		1.00		ug/L			11/29/23 16:21	1
Toluene	<1.00		1.00		ug/L			11/29/23 16:21	1
trans-1,2-Dichloroethene	<1.00		1.00		ug/L			11/29/23 16:21	1
trans-1,3-Dichloropropene	<5.00		5.00		ug/L			11/29/23 16:21	1
Trichloroethene	<1.00		1.00		ug/L			11/29/23 16:21	1
Trichlorofluoromethane	<4.00		4.00		ug/L			11/30/23 15:10	1
Vinyl chloride	<1.00		1.00		ug/L			11/30/23 15:10	1
Xylenes, Total	<3.00		3.00		ug/L			11/29/23 16:21	1
TPH-GRO (C6-C10)	<400		400		ug/L			11/29/23 16:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	89		80 - 128		11/29/23 16:21	1
Dibromofluoromethane (Surr)	110		80 - 128		11/30/23 15:10	1
Toluene-d8 (Surr)	107		80 - 120		11/29/23 16:21	1
Toluene-d8 (Surr)	92		80 - 120		11/30/23 15:10	1
4-Bromofluorobenzene (Surr)	102		80 - 120		11/29/23 16:21	1
4-Bromofluorobenzene (Surr)	109		80 - 120		11/30/23 15:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
1,2-Dichlorobenzene	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
1,3-Dichlorobenzene	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
1,4-Dichlorobenzene	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
2,4,5-Trichlorophenol	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
2,4,6-Trichlorophenol	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
2,4-Dichlorophenol	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
2,4-Dimethylphenol	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
2,4-Dinitrophenol	<19.6		19.6		ug/L		11/21/23 05:22	12/01/23 20:38	1
2,4-Dinitrotoluene	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
2,6-Dinitrotoluene	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
2-Chloronaphthalene	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
2-Chlorophenol	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
2-Methylnaphthalene	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
2-Methylphenol	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
2-Nitroaniline	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
2-Nitrophenol	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
3,3'-Dichlorobenzidine	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
3-Nitroaniline	<9.80	*	9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
4,6-Dinitro-2-methylphenol	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
4-Bromophenyl phenyl ether	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
4-Chloro-3-methylphenol	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
4-Chloroaniline	<9.80	*- *1	9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
4-Chlorophenyl phenyl ether	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1

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Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: GW2B

Lab Sample ID: 310-269966-13

Date Collected: 11/16/23 11:50

Matrix: Water

Date Received: 11/18/23 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methylphenol (and/or 3-Methylphenol)	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
4-Nitroaniline	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
4-Nitrophenol	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
Acenaphthene	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
Acenaphthylene	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
Anthracene	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
Benzidine	<19.6		19.6		ug/L		11/21/23 05:22	12/01/23 20:38	1
Benzo(a)anthracene	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
Benzo(a)pyrene	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
Benzo(b)fluoranthene	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
Benzo(g,h,i)perylene	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
Benzo(k)fluoranthene	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
Benzoic acid	<98.0		98.0		ug/L		11/21/23 05:22	12/01/23 20:38	1
Benzyl alcohol	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
Bis(2-chloroethoxy)methane	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
Bis(2-chloroethyl)ether	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
bis(2-chloroisopropyl) ether	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
Bis(2-ethylhexyl) phthalate	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
Butyl benzyl phthalate	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
Carbazole	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
Chrysene	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
Dibenzo(a,h)anthracene	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
Dibenzofuran	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
Diethyl phthalate	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
Dimethyl phthalate	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
Di-n-butyl phthalate	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
Di-n-octyl phthalate	<19.6		19.6		ug/L		11/21/23 05:22	12/01/23 20:38	1
Fluoranthene	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
Fluorene	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
Hexachlorobenzene	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
Hexachlorobutadiene	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
Hexachlorocyclopentadiene	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
Hexachloroethane	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
Indeno(1,2,3-cd)pyrene	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
Isophorone	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
Naphthalene	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
Nitrobenzene	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
N-Nitrosodimethylamine	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
N-Nitrosodi-n-propylamine	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
N-Nitrosodiphenylamine	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
Pentachlorophenol	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
Phenanthrene	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
Phenol	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
Pyrene	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
Pyridine	<9.80	*- *1	9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
Total Cresols	<9.80		9.80		ug/L		11/21/23 05:22	12/01/23 20:38	1
TPH-DRO (C10-C21)	<490		490		ug/L		11/21/23 05:22	12/01/23 20:38	1
TPH-ORO (C21-C35)	<490	*-	490		ug/L		11/21/23 05:22	12/01/23 20:38	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: GW2B

Lab Sample ID: 310-269966-13

Date Collected: 11/16/23 11:50

Matrix: Water

Date Received: 11/18/23 08:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	68		25 - 110	11/21/23 05:22	12/01/23 20:38	1
Phenol-d5 (Surr)	53		21 - 110	11/21/23 05:22	12/01/23 20:38	1
Nitrobenzene-d5 (Surr)	93		45 - 129	11/21/23 05:22	12/01/23 20:38	1
2-Fluorobiphenyl (Surr)	83		39 - 118	11/21/23 05:22	12/01/23 20:38	1
2,4,6-Tribromophenol (Surr)	96		27 - 136	11/21/23 05:22	12/01/23 20:38	1
Terphenyl-d14 (Surr)	83		12 - 144	11/21/23 05:22	12/01/23 20:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2.73		0.0500		mg/L		11/21/23 09:35	11/23/23 01:45	1
Antimony	<0.00200		0.00200		mg/L		11/21/23 09:35	11/23/23 01:45	1
Arsenic	0.00719		0.00200		mg/L		11/21/23 09:35	11/23/23 01:45	1
Barium	0.131		0.00200		mg/L		11/21/23 09:35	11/23/23 01:45	1
Beryllium	<0.00100		0.00100		mg/L		11/21/23 09:35	11/23/23 01:45	1
Cadmium	0.00289		0.000200		mg/L		11/21/23 09:35	11/23/23 01:45	1
Calcium	971		2.00		mg/L		11/21/23 09:35	11/27/23 12:25	4
Chromium	0.0389		0.00500		mg/L		11/21/23 09:35	11/23/23 01:45	1
Cobalt	0.0241		0.000500		mg/L		11/21/23 09:35	11/23/23 01:45	1
Copper	0.0311		0.00500		mg/L		11/21/23 09:35	11/23/23 01:45	1
Iron	54.5		0.100		mg/L		11/21/23 09:35	11/23/23 01:45	1
Lead	0.00778		0.000500		mg/L		11/21/23 09:35	11/23/23 01:45	1
Magnesium	124		2.00		mg/L		11/21/23 09:35	11/27/23 12:25	4
Manganese	5.23		0.0400		mg/L		11/21/23 09:35	11/28/23 15:20	4
Nickel	0.107		0.00500		mg/L		11/21/23 09:35	11/23/23 01:45	1
Potassium	6.59		0.500		mg/L		11/21/23 09:35	11/23/23 01:45	1
Selenium	<0.00500		0.00500		mg/L		11/21/23 09:35	11/23/23 01:45	1
Silver	<0.00100		0.00100		mg/L		11/21/23 09:35	11/23/23 01:45	1
Sodium	71.7		1.00		mg/L		11/21/23 09:35	11/23/23 01:45	1
Thallium	<0.00100		0.00100		mg/L		11/21/23 09:35	11/23/23 01:45	1
Vanadium	0.0169		0.00500		mg/L		11/21/23 09:35	11/23/23 01:45	1
Zinc	0.126		0.0200		mg/L		11/21/23 09:35	11/23/23 01:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.200		0.200		mg/L		11/27/23 09:35	11/29/23 13:20	4
Antimony	<0.00800		0.00800		mg/L		11/27/23 09:35	11/29/23 13:20	4
Arsenic	<0.00800		0.00800		mg/L		11/27/23 09:35	11/29/23 13:20	4
Barium	0.137		0.00800		mg/L		11/27/23 09:35	11/29/23 13:20	4
Beryllium	<0.00400		0.00400		mg/L		11/27/23 09:35	11/29/23 13:20	4
Cadmium	<0.000200		0.000200		mg/L		11/27/23 09:35	11/29/23 12:15	1
Calcium	1460		2.00		mg/L		11/27/23 09:35	11/29/23 13:20	4
Chromium	<0.0200		0.0200		mg/L		11/27/23 09:35	11/29/23 13:20	4
Cobalt	0.0374		0.00200		mg/L		11/27/23 09:35	11/29/23 13:20	4
Copper	<0.0200		0.0200		mg/L		11/27/23 09:35	11/29/23 13:20	4
Iron	39.8		0.400		mg/L		11/27/23 09:35	11/29/23 13:20	4
Lead	<0.00200		0.00200		mg/L		11/27/23 09:35	11/29/23 13:20	4
Magnesium	336		2.00		mg/L		11/27/23 09:35	11/29/23 13:20	4
Manganese	9.11		0.0400		mg/L		11/27/23 09:35	11/29/23 13:20	4
Nickel	0.125		0.0200		mg/L		11/27/23 09:35	11/29/23 13:20	4
Potassium	17.7		2.00		mg/L		11/27/23 09:35	11/29/23 13:20	4

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: GW2B

Lab Sample ID: 310-269966-13

Date Collected: 11/16/23 11:50

Matrix: Water

Date Received: 11/18/23 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.0200		0.0200		mg/L		11/27/23 09:35	11/29/23 13:20	4
Silver	<0.00400		0.00400		mg/L		11/27/23 09:35	11/29/23 13:20	4
Sodium	239		4.00		mg/L		11/27/23 09:35	11/29/23 13:20	4
Thallium	<0.00400		0.00400		mg/L		11/27/23 09:35	11/29/23 13:20	4
Vanadium	<0.0200		0.0200		mg/L		11/27/23 09:35	11/29/23 13:20	4
Zinc	0.105		0.0800		mg/L		11/27/23 09:35	11/29/23 13:20	4

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		12/11/23 12:04	12/12/23 10:04	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		12/11/23 12:07	12/12/23 11:07	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: GW3

Lab Sample ID: 310-269966-14

Date Collected: 11/16/23 13:30

Matrix: Water

Date Received: 11/18/23 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00		ug/L			11/29/23 16:44	1
1,1,1-Trichloroethane	<1.00		1.00		ug/L			11/29/23 16:44	1
1,1,2,2-Tetrachloroethane	<1.00		1.00		ug/L			11/29/23 16:44	1
1,1,2-Trichloroethane	<1.00		1.00		ug/L			11/29/23 16:44	1
1,1-Dichloroethane	<1.00		1.00		ug/L			11/30/23 15:32	1
1,1-Dichloroethene	<2.00		2.00		ug/L			11/29/23 16:44	1
1,1-Dichloropropene	<1.00		1.00		ug/L			11/29/23 16:44	1
1,2,3-Trichlorobenzene	<5.00		5.00		ug/L			11/29/23 16:44	1
1,2,3-Trichloropropane	<1.00		1.00		ug/L			11/29/23 16:44	1
1,2,4-Trichlorobenzene	<5.00		5.00		ug/L			11/29/23 16:44	1
1,2,4-Trimethylbenzene	<1.00		1.00		ug/L			11/29/23 16:44	1
1,2-Dibromo-3-chloropropane	<5.00		5.00		ug/L			11/29/23 16:44	1
1,2-Dibromoethane (EDB)	<1.00		1.00		ug/L			11/29/23 16:44	1
1,2-Dichlorobenzene	<1.00		1.00		ug/L			11/29/23 16:44	1
1,2-Dichloroethane	<1.00		1.00		ug/L			11/29/23 16:44	1
1,2-Dichloropropane	<1.00		1.00		ug/L			11/29/23 16:44	1
1,3,5-Trimethylbenzene	<1.00		1.00		ug/L			11/29/23 16:44	1
1,3-Dichlorobenzene	<1.00		1.00		ug/L			11/29/23 16:44	1
1,3-Dichloropropane	<1.00		1.00		ug/L			11/29/23 16:44	1
1,4-Dichlorobenzene	<1.00		1.00		ug/L			11/29/23 16:44	1
2,2-Dichloropropane	<4.00		4.00		ug/L			11/30/23 15:32	1
2-Butanone (MEK)	<10.0		10.0		ug/L			11/29/23 16:44	1
2-Chlorotoluene	<1.00		1.00		ug/L			11/29/23 16:44	1
4-Chlorotoluene	<1.00		1.00		ug/L			11/29/23 16:44	1
Acetone	<10.0		10.0		ug/L			11/29/23 16:44	1
Benzene	<0.500		0.500		ug/L			11/29/23 16:44	1
Bromobenzene	<1.00		1.00		ug/L			11/29/23 16:44	1
Bromochloromethane	<5.00		5.00		ug/L			11/29/23 16:44	1
Bromodichloromethane	<1.00		1.00		ug/L			11/29/23 16:44	1
Bromoform	<5.00		5.00		ug/L			11/29/23 16:44	1
Bromomethane	<4.00		4.00		ug/L			11/29/23 16:44	1
Carbon disulfide	<1.00		1.00		ug/L			11/29/23 16:44	1
Carbon tetrachloride	<2.00		2.00		ug/L			11/29/23 16:44	1
Chlorobenzene	<1.00		1.00		ug/L			11/29/23 16:44	1
Chlorodibromomethane	<5.00		5.00		ug/L			11/29/23 16:44	1
Chloroethane	<4.00		4.00		ug/L			11/29/23 16:44	1
Chloroform	<3.00		3.00		ug/L			11/29/23 16:44	1
Chloromethane	<3.00		3.00		ug/L			11/29/23 16:44	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			11/29/23 16:44	1
cis-1,3-Dichloropropene	<5.00		5.00		ug/L			11/29/23 16:44	1
Dibromomethane	<1.00		1.00		ug/L			11/29/23 16:44	1
Dichlorodifluoromethane	<3.00		3.00		ug/L			11/29/23 16:44	1
Ethylbenzene	<1.00		1.00		ug/L			11/29/23 16:44	1
Hexachlorobutadiene	<5.00		5.00		ug/L			11/29/23 16:44	1
Hexane	<1.00		1.00		ug/L			11/29/23 16:44	1
Isopropylbenzene	<1.00		1.00		ug/L			11/29/23 16:44	1
Methyl tert-butyl ether	<1.00		1.00		ug/L			11/29/23 16:44	1
Methylene chloride	<5.00		5.00		ug/L			11/29/23 16:44	1
Naphthalene	<5.00		5.00		ug/L			11/29/23 16:44	1

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Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: GW3

Lab Sample ID: 310-269966-14

Date Collected: 11/16/23 13:30

Matrix: Water

Date Received: 11/18/23 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	<1.00		1.00		ug/L			11/29/23 16:44	1
n-Propylbenzene	<1.00		1.00		ug/L			11/29/23 16:44	1
p-Isopropyltoluene	<1.00		1.00		ug/L			11/29/23 16:44	1
sec-Butylbenzene	<1.00		1.00		ug/L			11/29/23 16:44	1
Styrene	<1.00		1.00		ug/L			11/29/23 16:44	1
tert-Butylbenzene	<1.00		1.00		ug/L			11/29/23 16:44	1
Tetrachloroethene	<1.00		1.00		ug/L			11/29/23 16:44	1
Toluene	<1.00		1.00		ug/L			11/29/23 16:44	1
trans-1,2-Dichloroethene	<1.00		1.00		ug/L			11/29/23 16:44	1
trans-1,3-Dichloropropene	<5.00		5.00		ug/L			11/29/23 16:44	1
Trichloroethene	<1.00		1.00		ug/L			11/29/23 16:44	1
Trichlorofluoromethane	<4.00		4.00		ug/L			11/30/23 15:32	1
Vinyl chloride	<1.00		1.00		ug/L			11/30/23 15:32	1
Xylenes, Total	<3.00		3.00		ug/L			11/29/23 16:44	1
TPH-GRO (C6-C10)	<400		400		ug/L			11/29/23 16:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	89		80 - 128		11/29/23 16:44	1
Dibromofluoromethane (Surr)	110		80 - 128		11/30/23 15:32	1
Toluene-d8 (Surr)	105		80 - 120		11/29/23 16:44	1
Toluene-d8 (Surr)	94		80 - 120		11/30/23 15:32	1
4-Bromofluorobenzene (Surr)	99		80 - 120		11/29/23 16:44	1
4-Bromofluorobenzene (Surr)	107		80 - 120		11/30/23 15:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
1,2-Dichlorobenzene	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
1,3-Dichlorobenzene	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
1,4-Dichlorobenzene	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
2,4,5-Trichlorophenol	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
2,4,6-Trichlorophenol	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
2,4-Dichlorophenol	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
2,4-Dimethylphenol	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
2,4-Dinitrophenol	<19.2		19.2		ug/L		11/21/23 05:22	12/01/23 21:04	1
2,4-Dinitrotoluene	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
2,6-Dinitrotoluene	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
2-Chloronaphthalene	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
2-Chlorophenol	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
2-Methylnaphthalene	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
2-Methylphenol	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
2-Nitroaniline	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
2-Nitrophenol	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
3,3'-Dichlorobenzidine	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
3-Nitroaniline	<9.62	*	9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
4,6-Dinitro-2-methylphenol	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
4-Bromophenyl phenyl ether	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
4-Chloro-3-methylphenol	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
4-Chloroaniline	<9.62	*- *1	9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
4-Chlorophenyl phenyl ether	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1

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Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: GW3

Lab Sample ID: 310-269966-14

Date Collected: 11/16/23 13:30

Matrix: Water

Date Received: 11/18/23 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methylphenol (and/or 3-Methylphenol)	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
4-Nitroaniline	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
4-Nitrophenol	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
Acenaphthene	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
Acenaphthylene	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
Anthracene	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
Benzidine	<19.2		19.2		ug/L		11/21/23 05:22	12/01/23 21:04	1
Benzo(a)anthracene	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
Benzo(a)pyrene	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
Benzo(b)fluoranthene	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
Benzo(g,h,i)perylene	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
Benzo(k)fluoranthene	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
Benzoic acid	<96.2		96.2		ug/L		11/21/23 05:22	12/01/23 21:04	1
Benzyl alcohol	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
Bis(2-chloroethoxy)methane	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
Bis(2-chloroethyl)ether	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
bis(2-chloroisopropyl) ether	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
Bis(2-ethylhexyl) phthalate	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
Butyl benzyl phthalate	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
Carbazole	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
Chrysene	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
Dibenzo(a,h)anthracene	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
Dibenzofuran	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
Diethyl phthalate	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
Dimethyl phthalate	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
Di-n-butyl phthalate	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
Di-n-octyl phthalate	<19.2		19.2		ug/L		11/21/23 05:22	12/01/23 21:04	1
Fluoranthene	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
Fluorene	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
Hexachlorobenzene	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
Hexachlorobutadiene	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
Hexachlorocyclopentadiene	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
Hexachloroethane	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
Indeno(1,2,3-cd)pyrene	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
Isophorone	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
Naphthalene	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
Nitrobenzene	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
N-Nitrosodimethylamine	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
N-Nitrosodi-n-propylamine	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
N-Nitrosodiphenylamine	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
Pentachlorophenol	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
Phenanthrene	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
Phenol	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
Pyrene	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
Pyridine	<9.62	*- *1	9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
Total Cresols	<9.62		9.62		ug/L		11/21/23 05:22	12/01/23 21:04	1
TPH-DRO (C10-C21)	<481		481		ug/L		11/21/23 05:22	12/01/23 21:04	1
TPH-ORO (C21-C35)	<481	*-	481		ug/L		11/21/23 05:22	12/01/23 21:04	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: GW3

Lab Sample ID: 310-269966-14

Date Collected: 11/16/23 13:30

Matrix: Water

Date Received: 11/18/23 08:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	71		25 - 110	11/21/23 05:22	12/01/23 21:04	1
Phenol-d5 (Surr)	56		21 - 110	11/21/23 05:22	12/01/23 21:04	1
Nitrobenzene-d5 (Surr)	96		45 - 129	11/21/23 05:22	12/01/23 21:04	1
2-Fluorobiphenyl (Surr)	83		39 - 118	11/21/23 05:22	12/01/23 21:04	1
2,4,6-Tribromophenol (Surr)	96		27 - 136	11/21/23 05:22	12/01/23 21:04	1
Terphenyl-d14 (Surr)	80		12 - 144	11/21/23 05:22	12/01/23 21:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4.14		0.0500		mg/L		11/21/23 09:35	11/23/23 01:48	1
Antimony	<0.00200		0.00200		mg/L		11/21/23 09:35	11/23/23 01:48	1
Arsenic	0.276		0.00200		mg/L		11/21/23 09:35	11/23/23 01:48	1
Barium	4.87		0.0200		mg/L		11/21/23 09:35	11/27/23 12:28	10
Beryllium	0.00827		0.00100		mg/L		11/21/23 09:35	11/23/23 01:48	1
Cadmium	0.00189		0.000200		mg/L		11/21/23 09:35	11/23/23 01:48	1
Calcium	318		0.500		mg/L		11/21/23 09:35	11/23/23 01:48	1
Chromium	0.00632		0.00500		mg/L		11/21/23 09:35	11/23/23 01:48	1
Cobalt	0.326		0.000500		mg/L		11/21/23 09:35	11/23/23 01:48	1
Copper	0.00881		0.00500		mg/L		11/21/23 09:35	11/23/23 01:48	1
Iron	181		1.00		mg/L		11/21/23 09:35	11/27/23 12:28	10
Lead	0.0685		0.000500		mg/L		11/21/23 09:35	11/23/23 01:48	1
Magnesium	58.6		0.500		mg/L		11/21/23 09:35	11/23/23 01:48	1
Manganese	33.9		0.100		mg/L		11/21/23 09:35	11/28/23 15:23	10
Nickel	0.163		0.00500		mg/L		11/21/23 09:35	11/23/23 01:48	1
Potassium	3.52		0.500		mg/L		11/21/23 09:35	11/23/23 01:48	1
Selenium	<0.00500		0.00500		mg/L		11/21/23 09:35	11/23/23 01:48	1
Silver	<0.00100		0.00100		mg/L		11/21/23 09:35	11/23/23 01:48	1
Sodium	54.4		1.00		mg/L		11/21/23 09:35	11/23/23 01:48	1
Thallium	<0.00100		0.00100		mg/L		11/21/23 09:35	11/23/23 01:48	1
Vanadium	0.237		0.00500		mg/L		11/21/23 09:35	11/23/23 01:48	1
Zinc	0.0592		0.0200		mg/L		11/21/23 09:35	11/23/23 01:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0500		0.0500		mg/L		11/27/23 09:35	11/29/23 12:17	1
Antimony	<0.00200		0.00200		mg/L		11/27/23 09:35	11/29/23 12:17	1
Arsenic	0.187		0.00200		mg/L		11/27/23 09:35	11/29/23 12:17	1
Barium	1.37		0.00200		mg/L		11/27/23 09:35	11/29/23 12:17	1
Beryllium	<0.00100		0.00100		mg/L		11/27/23 09:35	11/29/23 12:17	1
Cadmium	<0.000200		0.000200		mg/L		11/27/23 09:35	11/29/23 12:17	1
Calcium	197		0.500		mg/L		11/27/23 09:35	11/29/23 12:17	1
Chromium	<0.00500		0.00500		mg/L		11/27/23 09:35	11/29/23 12:17	1
Cobalt	0.0507		0.000500		mg/L		11/27/23 09:35	11/29/23 12:17	1
Copper	<0.00500		0.00500		mg/L		11/27/23 09:35	11/29/23 12:17	1
Iron	49.9		0.100		mg/L		11/27/23 09:35	11/29/23 12:17	1
Lead	<0.000500		0.000500		mg/L		11/27/23 09:35	11/29/23 12:17	1
Magnesium	42.5		0.500		mg/L		11/27/23 09:35	11/29/23 12:17	1
Manganese	16.5		0.0700		mg/L		11/27/23 09:35	11/29/23 14:35	7
Nickel	0.0148		0.00500		mg/L		11/27/23 09:35	11/29/23 12:17	1
Potassium	2.14		0.500		mg/L		11/27/23 09:35	11/29/23 12:17	1

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Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: GW3

Lab Sample ID: 310-269966-14

Date Collected: 11/16/23 13:30

Matrix: Water

Date Received: 11/18/23 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.00500		0.00500		mg/L		11/27/23 09:35	11/29/23 12:17	1
Silver	<0.00100		0.00100		mg/L		11/27/23 09:35	11/29/23 12:17	1
Sodium	55.3		1.00		mg/L		11/27/23 09:35	11/29/23 12:17	1
Thallium	<0.00100		0.00100		mg/L		11/27/23 09:35	11/29/23 12:17	1
Vanadium	<0.00500		0.00500		mg/L		11/27/23 09:35	11/29/23 12:17	1
Zinc	<0.0200		0.0200		mg/L		11/27/23 09:35	11/29/23 12:17	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		12/11/23 12:04	12/12/23 10:06	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		12/11/23 12:07	12/12/23 11:13	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: FB1

Lab Sample ID: 310-269966-15

Date Collected: 11/16/23 14:20

Matrix: Water

Date Received: 11/18/23 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00		ug/L			11/29/23 14:24	1
1,1,1-Trichloroethane	<1.00		1.00		ug/L			11/29/23 14:24	1
1,1,2,2-Tetrachloroethane	<1.00		1.00		ug/L			11/29/23 14:24	1
1,1,2-Trichloroethane	<1.00		1.00		ug/L			11/29/23 14:24	1
1,1-Dichloroethane	<1.00		1.00		ug/L			11/30/23 13:00	1
1,1-Dichloroethene	<2.00		2.00		ug/L			11/29/23 14:24	1
1,1-Dichloropropene	<1.00		1.00		ug/L			11/29/23 14:24	1
1,2,3-Trichlorobenzene	<5.00		5.00		ug/L			11/29/23 14:24	1
1,2,3-Trichloropropane	<1.00		1.00		ug/L			11/29/23 14:24	1
1,2,4-Trichlorobenzene	<5.00		5.00		ug/L			11/29/23 14:24	1
1,2,4-Trimethylbenzene	<1.00		1.00		ug/L			11/29/23 14:24	1
1,2-Dibromo-3-chloropropane	<5.00		5.00		ug/L			11/29/23 14:24	1
1,2-Dibromoethane (EDB)	<1.00		1.00		ug/L			11/29/23 14:24	1
1,2-Dichlorobenzene	<1.00		1.00		ug/L			11/29/23 14:24	1
1,2-Dichloroethane	<1.00		1.00		ug/L			11/29/23 14:24	1
1,2-Dichloropropane	<1.00		1.00		ug/L			11/29/23 14:24	1
1,3,5-Trimethylbenzene	<1.00		1.00		ug/L			11/29/23 14:24	1
1,3-Dichlorobenzene	<1.00		1.00		ug/L			11/29/23 14:24	1
1,3-Dichloropropane	<1.00		1.00		ug/L			11/29/23 14:24	1
1,4-Dichlorobenzene	<1.00		1.00		ug/L			11/29/23 14:24	1
2,2-Dichloropropane	<4.00		4.00		ug/L			11/30/23 13:00	1
2-Butanone (MEK)	<10.0		10.0		ug/L			11/29/23 14:24	1
2-Chlorotoluene	<1.00		1.00		ug/L			11/29/23 14:24	1
4-Chlorotoluene	<1.00		1.00		ug/L			11/29/23 14:24	1
Acetone	<10.0		10.0		ug/L			11/29/23 14:24	1
Benzene	<0.500		0.500		ug/L			11/29/23 14:24	1
Bromobenzene	<1.00		1.00		ug/L			11/29/23 14:24	1
Bromochloromethane	<5.00		5.00		ug/L			11/29/23 14:24	1
Bromodichloromethane	<1.00		1.00		ug/L			11/29/23 14:24	1
Bromoform	<5.00		5.00		ug/L			11/29/23 14:24	1
Bromomethane	<4.00		4.00		ug/L			11/29/23 14:24	1
Carbon disulfide	<1.00		1.00		ug/L			11/29/23 14:24	1
Carbon tetrachloride	<2.00		2.00		ug/L			11/29/23 14:24	1
Chlorobenzene	<1.00		1.00		ug/L			11/29/23 14:24	1
Chlorodibromomethane	<5.00		5.00		ug/L			11/29/23 14:24	1
Chloroethane	<4.00		4.00		ug/L			11/29/23 14:24	1
Chloroform	<3.00		3.00		ug/L			11/29/23 14:24	1
Chloromethane	<3.00		3.00		ug/L			11/29/23 14:24	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			11/29/23 14:24	1
cis-1,3-Dichloropropene	<5.00		5.00		ug/L			11/29/23 14:24	1
Dibromomethane	<1.00		1.00		ug/L			11/29/23 14:24	1
Dichlorodifluoromethane	<3.00		3.00		ug/L			11/29/23 14:24	1
Ethylbenzene	<1.00		1.00		ug/L			11/29/23 14:24	1
Hexachlorobutadiene	<5.00		5.00		ug/L			11/29/23 14:24	1
Hexane	<1.00		1.00		ug/L			11/29/23 14:24	1
Isopropylbenzene	<1.00		1.00		ug/L			11/29/23 14:24	1
Methyl tert-butyl ether	<1.00		1.00		ug/L			11/29/23 14:24	1
Methylene chloride	<5.00		5.00		ug/L			11/29/23 14:24	1
Naphthalene	<5.00		5.00		ug/L			11/29/23 14:24	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: FB1

Lab Sample ID: 310-269966-15

Date Collected: 11/16/23 14:20

Matrix: Water

Date Received: 11/18/23 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	<1.00		1.00		ug/L			11/29/23 14:24	1
n-Propylbenzene	<1.00		1.00		ug/L			11/29/23 14:24	1
p-Isopropyltoluene	<1.00		1.00		ug/L			11/29/23 14:24	1
sec-Butylbenzene	<1.00		1.00		ug/L			11/29/23 14:24	1
Styrene	<1.00		1.00		ug/L			11/29/23 14:24	1
tert-Butylbenzene	<1.00		1.00		ug/L			11/29/23 14:24	1
Tetrachloroethene	<1.00		1.00		ug/L			11/29/23 14:24	1
Toluene	<1.00		1.00		ug/L			11/29/23 14:24	1
trans-1,2-Dichloroethene	<1.00		1.00		ug/L			11/29/23 14:24	1
trans-1,3-Dichloropropene	<5.00		5.00		ug/L			11/29/23 14:24	1
Trichloroethene	<1.00		1.00		ug/L			11/29/23 14:24	1
Trichlorofluoromethane	<4.00		4.00		ug/L			11/30/23 13:00	1
Vinyl chloride	<1.00		1.00		ug/L			11/30/23 13:00	1
Xylenes, Total	<3.00		3.00		ug/L			11/29/23 14:24	1
TPH-GRO (C6-C10)	<400		400		ug/L			11/29/23 14:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	90		80 - 128		11/29/23 14:24	1
Dibromofluoromethane (Surr)	110		80 - 128		11/30/23 13:00	1
Toluene-d8 (Surr)	106		80 - 120		11/29/23 14:24	1
Toluene-d8 (Surr)	92		80 - 120		11/30/23 13:00	1
4-Bromofluorobenzene (Surr)	102		80 - 120		11/29/23 14:24	1
4-Bromofluorobenzene (Surr)	108		80 - 120		11/30/23 13:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
1,2-Dichlorobenzene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
1,3-Dichlorobenzene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
1,4-Dichlorobenzene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
2,4,5-Trichlorophenol	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
2,4,6-Trichlorophenol	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
2,4-Dichlorophenol	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
2,4-Dimethylphenol	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
2,4-Dinitrophenol	<18.9		18.9		ug/L		11/21/23 05:22	12/01/23 21:31	1
2,4-Dinitrotoluene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
2,6-Dinitrotoluene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
2-Chloronaphthalene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
2-Chlorophenol	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
2-Methylnaphthalene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
2-Methylphenol	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
2-Nitroaniline	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
2-Nitrophenol	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
3,3'-Dichlorobenzidine	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
3-Nitroaniline	<9.43	*	9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
4,6-Dinitro-2-methylphenol	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
4-Bromophenyl phenyl ether	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
4-Chloro-3-methylphenol	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
4-Chloroaniline	<9.43	*- *1	9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
4-Chlorophenyl phenyl ether	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: FB1

Lab Sample ID: 310-269966-15

Date Collected: 11/16/23 14:20

Matrix: Water

Date Received: 11/18/23 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methylphenol (and/or 3-Methylphenol)	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
4-Nitroaniline	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
4-Nitrophenol	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
Acenaphthene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
Acenaphthylene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
Anthracene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
Benzidine	<18.9		18.9		ug/L		11/21/23 05:22	12/01/23 21:31	1
Benzo(a)anthracene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
Benzo(a)pyrene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
Benzo(b)fluoranthene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
Benzo(g,h,i)perylene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
Benzo(k)fluoranthene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
Benzoic acid	<94.3		94.3		ug/L		11/21/23 05:22	12/01/23 21:31	1
Benzyl alcohol	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
Bis(2-chloroethoxy)methane	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
Bis(2-chloroethyl)ether	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
bis(2-chloroisopropyl) ether	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
Bis(2-ethylhexyl) phthalate	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
Butyl benzyl phthalate	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
Carbazole	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
Chrysene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
Dibenzo(a,h)anthracene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
Dibenzofuran	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
Diethyl phthalate	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
Dimethyl phthalate	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
Di-n-butyl phthalate	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
Di-n-octyl phthalate	<18.9		18.9		ug/L		11/21/23 05:22	12/01/23 21:31	1
Fluoranthene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
Fluorene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
Hexachlorobenzene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
Hexachlorobutadiene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
Hexachlorocyclopentadiene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
Hexachloroethane	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
Indeno(1,2,3-cd)pyrene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
Isophorone	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
Naphthalene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
Nitrobenzene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
N-Nitrosodimethylamine	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
N-Nitrosodi-n-propylamine	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
N-Nitrosodiphenylamine	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
Pentachlorophenol	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
Phenanthrene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
Phenol	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
Pyrene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
Pyridine	<9.43 *- *1		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
Total Cresols	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 21:31	1
TPH-DRO (C10-C21)	<472		472		ug/L		11/21/23 05:22	12/01/23 21:31	1
TPH-ORO (C21-C35)	<472 *-		472		ug/L		11/21/23 05:22	12/01/23 21:31	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: FB1

Lab Sample ID: 310-269966-15

Date Collected: 11/16/23 14:20

Matrix: Water

Date Received: 11/18/23 08:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	69		25 - 110	11/21/23 05:22	12/01/23 21:31	1
Phenol-d5 (Surr)	56		21 - 110	11/21/23 05:22	12/01/23 21:31	1
Nitrobenzene-d5 (Surr)	97		45 - 129	11/21/23 05:22	12/01/23 21:31	1
2-Fluorobiphenyl (Surr)	87		39 - 118	11/21/23 05:22	12/01/23 21:31	1
2,4,6-Tribromophenol (Surr)	100		27 - 136	11/21/23 05:22	12/01/23 21:31	1
Terphenyl-d14 (Surr)	98		12 - 144	11/21/23 05:22	12/01/23 21:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0500		0.0500		mg/L		11/21/23 09:35	11/23/23 01:51	1
Antimony	<0.00200		0.00200		mg/L		11/21/23 09:35	11/23/23 01:51	1
Arsenic	<0.00200		0.00200		mg/L		11/21/23 09:35	11/23/23 01:51	1
Barium	0.00473		0.00200		mg/L		11/21/23 09:35	11/23/23 01:51	1
Beryllium	<0.00100		0.00100		mg/L		11/21/23 09:35	11/23/23 01:51	1
Cadmium	<0.000200		0.000200		mg/L		11/21/23 09:35	11/23/23 01:51	1
Calcium	0.836		0.500		mg/L		11/21/23 09:35	11/23/23 01:51	1
Chromium	<0.00500		0.00500		mg/L		11/21/23 09:35	11/23/23 01:51	1
Cobalt	<0.000500		0.000500		mg/L		11/21/23 09:35	11/23/23 01:51	1
Copper	<0.00500		0.00500		mg/L		11/21/23 09:35	11/23/23 01:51	1
Iron	0.240		0.100		mg/L		11/21/23 09:35	11/23/23 01:51	1
Lead	<0.000500		0.000500		mg/L		11/21/23 09:35	11/23/23 01:51	1
Magnesium	<0.500		0.500		mg/L		11/21/23 09:35	11/23/23 01:51	1
Manganese	0.0382		0.0100		mg/L		11/21/23 09:35	11/23/23 01:51	1
Nickel	<0.00500		0.00500		mg/L		11/21/23 09:35	11/23/23 01:51	1
Potassium	<0.500		0.500		mg/L		11/21/23 09:35	11/23/23 01:51	1
Selenium	<0.00500		0.00500		mg/L		11/21/23 09:35	11/23/23 01:51	1
Silver	<0.00100		0.00100		mg/L		11/21/23 09:35	11/23/23 01:51	1
Sodium	<1.00		1.00		mg/L		11/21/23 09:35	11/23/23 01:51	1
Thallium	<0.00100		0.00100		mg/L		11/21/23 09:35	11/23/23 01:51	1
Vanadium	<0.00500		0.00500		mg/L		11/21/23 09:35	11/23/23 01:51	1
Zinc	<0.0200		0.0200		mg/L		11/21/23 09:35	11/23/23 01:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0500		0.0500		mg/L		11/27/23 09:35	11/29/23 12:19	1
Antimony	<0.00200		0.00200		mg/L		11/27/23 09:35	11/29/23 12:19	1
Arsenic	<0.00200		0.00200		mg/L		11/27/23 09:35	11/29/23 12:19	1
Barium	<0.00200		0.00200		mg/L		11/27/23 09:35	11/29/23 12:19	1
Beryllium	<0.00100		0.00100		mg/L		11/27/23 09:35	11/29/23 12:19	1
Cadmium	<0.000200		0.000200		mg/L		11/27/23 09:35	11/29/23 12:19	1
Calcium	<0.500		0.500		mg/L		11/27/23 09:35	11/29/23 12:19	1
Chromium	<0.00500		0.00500		mg/L		11/27/23 09:35	11/29/23 12:19	1
Cobalt	<0.000500		0.000500		mg/L		11/27/23 09:35	11/29/23 12:19	1
Copper	<0.00500		0.00500		mg/L		11/27/23 09:35	11/29/23 12:19	1
Iron	<0.100		0.100		mg/L		11/27/23 09:35	11/29/23 12:19	1
Lead	<0.000500		0.000500		mg/L		11/27/23 09:35	11/29/23 12:19	1
Magnesium	<0.500		0.500		mg/L		11/27/23 09:35	11/29/23 12:19	1
Manganese	0.0210		0.0100		mg/L		11/27/23 09:35	11/29/23 12:19	1
Nickel	<0.00500		0.00500		mg/L		11/27/23 09:35	11/29/23 12:19	1
Potassium	<0.500		0.500		mg/L		11/27/23 09:35	11/29/23 12:19	1

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Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: FB1

Lab Sample ID: 310-269966-15

Date Collected: 11/16/23 14:20

Matrix: Water

Date Received: 11/18/23 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.00500		0.00500		mg/L		11/27/23 09:35	11/29/23 12:19	1
Silver	<0.00100		0.00100		mg/L		11/27/23 09:35	11/29/23 12:19	1
Sodium	<1.00		1.00		mg/L		11/27/23 09:35	11/29/23 12:19	1
Thallium	<0.00100		0.00100		mg/L		11/27/23 09:35	11/29/23 12:19	1
Vanadium	<0.00500		0.00500		mg/L		11/27/23 09:35	11/29/23 12:19	1
Zinc	<0.0200		0.0200		mg/L		11/27/23 09:35	11/29/23 12:19	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		12/11/23 12:04	12/12/23 10:08	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		12/11/23 12:07	12/12/23 11:20	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: GW4

Lab Sample ID: 310-269966-16

Date Collected: 11/16/23 15:10

Matrix: Water

Date Received: 11/18/23 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00		ug/L			11/29/23 17:08	1
1,1,1-Trichloroethane	<1.00		1.00		ug/L			11/29/23 17:08	1
1,1,2,2-Tetrachloroethane	<1.00		1.00		ug/L			11/29/23 17:08	1
1,1,2-Trichloroethane	<1.00		1.00		ug/L			11/29/23 17:08	1
1,1-Dichloroethane	<1.00		1.00		ug/L			11/30/23 14:49	1
1,1-Dichloroethene	<2.00		2.00		ug/L			11/29/23 17:08	1
1,1-Dichloropropene	<1.00		1.00		ug/L			11/29/23 17:08	1
1,2,3-Trichlorobenzene	<5.00		5.00		ug/L			11/29/23 17:08	1
1,2,3-Trichloropropane	<1.00		1.00		ug/L			11/29/23 17:08	1
1,2,4-Trichlorobenzene	<5.00		5.00		ug/L			11/29/23 17:08	1
1,2,4-Trimethylbenzene	<1.00		1.00		ug/L			11/29/23 17:08	1
1,2-Dibromo-3-chloropropane	<5.00		5.00		ug/L			11/29/23 17:08	1
1,2-Dibromoethane (EDB)	<1.00		1.00		ug/L			11/29/23 17:08	1
1,2-Dichlorobenzene	<1.00		1.00		ug/L			11/29/23 17:08	1
1,2-Dichloroethane	<1.00		1.00		ug/L			11/29/23 17:08	1
1,2-Dichloropropane	<1.00		1.00		ug/L			11/29/23 17:08	1
1,3,5-Trimethylbenzene	<1.00		1.00		ug/L			11/29/23 17:08	1
1,3-Dichlorobenzene	<1.00		1.00		ug/L			11/29/23 17:08	1
1,3-Dichloropropane	<1.00		1.00		ug/L			11/29/23 17:08	1
1,4-Dichlorobenzene	<1.00		1.00		ug/L			11/29/23 17:08	1
2,2-Dichloropropane	<4.00		4.00		ug/L			11/30/23 14:49	1
2-Butanone (MEK)	<10.0		10.0		ug/L			11/29/23 17:08	1
2-Chlorotoluene	<1.00		1.00		ug/L			11/29/23 17:08	1
4-Chlorotoluene	<1.00		1.00		ug/L			11/29/23 17:08	1
Acetone	<10.0		10.0		ug/L			11/29/23 17:08	1
Benzene	<0.500		0.500		ug/L			11/29/23 17:08	1
Bromobenzene	<1.00		1.00		ug/L			11/29/23 17:08	1
Bromochloromethane	<5.00		5.00		ug/L			11/29/23 17:08	1
Bromodichloromethane	<1.00		1.00		ug/L			11/29/23 17:08	1
Bromoform	<5.00		5.00		ug/L			11/29/23 17:08	1
Bromomethane	<4.00		4.00		ug/L			11/29/23 17:08	1
Carbon disulfide	<1.00		1.00		ug/L			11/29/23 17:08	1
Carbon tetrachloride	<2.00		2.00		ug/L			11/29/23 17:08	1
Chlorobenzene	<1.00		1.00		ug/L			11/29/23 17:08	1
Chlorodibromomethane	<5.00		5.00		ug/L			11/29/23 17:08	1
Chloroethane	<4.00		4.00		ug/L			11/29/23 17:08	1
Chloroform	<3.00		3.00		ug/L			11/29/23 17:08	1
Chloromethane	<3.00		3.00		ug/L			11/29/23 17:08	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			11/29/23 17:08	1
cis-1,3-Dichloropropene	<5.00		5.00		ug/L			11/29/23 17:08	1
Dibromomethane	<1.00		1.00		ug/L			11/29/23 17:08	1
Dichlorodifluoromethane	<3.00		3.00		ug/L			11/29/23 17:08	1
Ethylbenzene	<1.00		1.00		ug/L			11/29/23 17:08	1
Hexachlorobutadiene	<5.00		5.00		ug/L			11/29/23 17:08	1
Hexane	<1.00		1.00		ug/L			11/29/23 17:08	1
Isopropylbenzene	<1.00		1.00		ug/L			11/29/23 17:08	1
Methyl tert-butyl ether	<1.00		1.00		ug/L			11/29/23 17:08	1
Methylene chloride	<5.00		5.00		ug/L			11/29/23 17:08	1
Naphthalene	<5.00		5.00		ug/L			11/29/23 17:08	1

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Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: GW4

Lab Sample ID: 310-269966-16

Date Collected: 11/16/23 15:10

Matrix: Water

Date Received: 11/18/23 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	<1.00		1.00		ug/L			11/29/23 17:08	1
n-Propylbenzene	<1.00		1.00		ug/L			11/29/23 17:08	1
p-Isopropyltoluene	<1.00		1.00		ug/L			11/29/23 17:08	1
sec-Butylbenzene	<1.00		1.00		ug/L			11/29/23 17:08	1
Styrene	<1.00		1.00		ug/L			11/29/23 17:08	1
tert-Butylbenzene	<1.00		1.00		ug/L			11/29/23 17:08	1
Tetrachloroethene	<1.00		1.00		ug/L			11/29/23 17:08	1
Toluene	<1.00		1.00		ug/L			11/29/23 17:08	1
trans-1,2-Dichloroethene	<1.00		1.00		ug/L			11/29/23 17:08	1
trans-1,3-Dichloropropene	<5.00		5.00		ug/L			11/29/23 17:08	1
Trichloroethene	<1.00		1.00		ug/L			11/29/23 17:08	1
Trichlorofluoromethane	<4.00		4.00		ug/L			11/30/23 14:49	1
Vinyl chloride	<1.00		1.00		ug/L			11/30/23 14:49	1
Xylenes, Total	<3.00		3.00		ug/L			11/29/23 17:08	1
TPH-GRO (C6-C10)	<400		400		ug/L			11/29/23 17:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	89		80 - 128		11/29/23 17:08	1
Dibromofluoromethane (Surr)	106		80 - 128		11/30/23 14:49	1
Toluene-d8 (Surr)	106		80 - 120		11/29/23 17:08	1
Toluene-d8 (Surr)	92		80 - 120		11/30/23 14:49	1
4-Bromofluorobenzene (Surr)	100		80 - 120		11/29/23 17:08	1
4-Bromofluorobenzene (Surr)	104		80 - 120		11/30/23 14:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
1,2-Dichlorobenzene	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
1,3-Dichlorobenzene	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
1,4-Dichlorobenzene	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
2,4,5-Trichlorophenol	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
2,4,6-Trichlorophenol	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
2,4-Dichlorophenol	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
2,4-Dimethylphenol	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
2,4-Dinitrophenol	<20.4		20.4		ug/L		11/21/23 05:22	12/01/23 21:58	1
2,4-Dinitrotoluene	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
2,6-Dinitrotoluene	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
2-Chloronaphthalene	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
2-Chlorophenol	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
2-Methylnaphthalene	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
2-Methylphenol	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
2-Nitroaniline	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
2-Nitrophenol	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
3,3'-Dichlorobenzidine	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
3-Nitroaniline	<10.2	*	10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
4,6-Dinitro-2-methylphenol	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
4-Bromophenyl phenyl ether	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
4-Chloro-3-methylphenol	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
4-Chloroaniline	<10.2	*- *1	10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
4-Chlorophenyl phenyl ether	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: GW4

Lab Sample ID: 310-269966-16

Date Collected: 11/16/23 15:10

Matrix: Water

Date Received: 11/18/23 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methylphenol (and/or 3-Methylphenol)	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
4-Nitroaniline	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
4-Nitrophenol	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
Acenaphthene	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
Acenaphthylene	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
Anthracene	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
Benzidine	<20.4		20.4		ug/L		11/21/23 05:22	12/01/23 21:58	1
Benzo(a)anthracene	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
Benzo(a)pyrene	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
Benzo(b)fluoranthene	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
Benzo(g,h,i)perylene	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
Benzo(k)fluoranthene	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
Benzoic acid	<102		102		ug/L		11/21/23 05:22	12/01/23 21:58	1
Benzyl alcohol	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
Bis(2-chloroethoxy)methane	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
Bis(2-chloroethyl)ether	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
bis(2-chloroisopropyl) ether	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
Bis(2-ethylhexyl) phthalate	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
Butyl benzyl phthalate	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
Carbazole	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
Chrysene	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
Dibenzo(a,h)anthracene	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
Dibenzofuran	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
Diethyl phthalate	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
Dimethyl phthalate	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
Di-n-butyl phthalate	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
Di-n-octyl phthalate	<20.4		20.4		ug/L		11/21/23 05:22	12/01/23 21:58	1
Fluoranthene	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
Fluorene	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
Hexachlorobenzene	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
Hexachlorobutadiene	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
Hexachlorocyclopentadiene	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
Hexachloroethane	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
Indeno(1,2,3-cd)pyrene	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
Isophorone	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
Naphthalene	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
Nitrobenzene	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
N-Nitrosodimethylamine	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
N-Nitrosodi-n-propylamine	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
N-Nitrosodiphenylamine	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
Pentachlorophenol	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
Phenanthrene	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
Phenol	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
Pyrene	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
Pyridine	<10.2	*- *1	10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
Total Cresols	<10.2		10.2		ug/L		11/21/23 05:22	12/01/23 21:58	1
TPH-DRO (C10-C21)	<510		510		ug/L		11/21/23 05:22	12/01/23 21:58	1
TPH-ORO (C21-C35)	<510	*-	510		ug/L		11/21/23 05:22	12/01/23 21:58	1

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Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: GW4

Lab Sample ID: 310-269966-16

Date Collected: 11/16/23 15:10

Matrix: Water

Date Received: 11/18/23 08:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	70		25 - 110	11/21/23 05:22	12/01/23 21:58	1
Phenol-d5 (Surr)	59		21 - 110	11/21/23 05:22	12/01/23 21:58	1
Nitrobenzene-d5 (Surr)	91		45 - 129	11/21/23 05:22	12/01/23 21:58	1
2-Fluorobiphenyl (Surr)	82		39 - 118	11/21/23 05:22	12/01/23 21:58	1
2,4,6-Tribromophenol (Surr)	94		27 - 136	11/21/23 05:22	12/01/23 21:58	1
Terphenyl-d14 (Surr)	84		12 - 144	11/21/23 05:22	12/01/23 21:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6.22		0.0500		mg/L		11/21/23 09:35	11/23/23 01:54	1
Antimony	<0.00200		0.00200		mg/L		11/21/23 09:35	11/23/23 01:54	1
Arsenic	0.0136		0.00200		mg/L		11/21/23 09:35	11/23/23 01:54	1
Barium	0.196		0.00200		mg/L		11/21/23 09:35	11/23/23 01:54	1
Beryllium	0.00113		0.00100		mg/L		11/21/23 09:35	11/23/23 01:54	1
Cadmium	0.00207		0.000200		mg/L		11/21/23 09:35	11/23/23 01:54	1
Calcium	983		2.00		mg/L		11/21/23 09:35	11/27/23 12:31	4
Chromium	0.0284		0.00500		mg/L		11/21/23 09:35	11/23/23 01:54	1
Cobalt	0.0196		0.000500		mg/L		11/21/23 09:35	11/23/23 01:54	1
Copper	0.0181		0.00500		mg/L		11/21/23 09:35	11/23/23 01:54	1
Iron	15.7		0.100		mg/L		11/21/23 09:35	11/23/23 01:54	1
Lead	0.0150		0.000500		mg/L		11/21/23 09:35	11/23/23 01:54	1
Magnesium	78.5		0.500		mg/L		11/21/23 09:35	11/23/23 01:54	1
Manganese	8.10		0.0400		mg/L		11/21/23 09:35	11/28/23 15:26	4
Nickel	0.0355		0.00500		mg/L		11/21/23 09:35	11/23/23 01:54	1
Potassium	7.07		0.500		mg/L		11/21/23 09:35	11/23/23 01:54	1
Selenium	0.00617		0.00500		mg/L		11/21/23 09:35	11/23/23 01:54	1
Silver	<0.00100		0.00100		mg/L		11/21/23 09:35	11/23/23 01:54	1
Sodium	46.0		1.00		mg/L		11/21/23 09:35	11/23/23 01:54	1
Thallium	<0.00100		0.00100		mg/L		11/21/23 09:35	11/23/23 01:54	1
Vanadium	0.0505		0.00500		mg/L		11/21/23 09:35	11/23/23 01:54	1
Zinc	0.0453		0.0200		mg/L		11/21/23 09:35	11/23/23 01:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0500		0.0500		mg/L		11/27/23 09:35	11/29/23 12:22	1
Antimony	<0.00200		0.00200		mg/L		11/27/23 09:35	11/29/23 12:22	1
Arsenic	0.00543		0.00200		mg/L		11/27/23 09:35	11/29/23 12:22	1
Barium	0.0399		0.00200		mg/L		11/27/23 09:35	11/29/23 12:22	1
Beryllium	<0.00100		0.00100		mg/L		11/27/23 09:35	11/29/23 12:22	1
Cadmium	<0.000200		0.000200		mg/L		11/27/23 09:35	11/29/23 12:22	1
Calcium	207		0.500		mg/L		11/27/23 09:35	11/29/23 12:22	1
Chromium	<0.00500		0.00500		mg/L		11/27/23 09:35	11/29/23 12:22	1
Cobalt	0.00303		0.000500		mg/L		11/27/23 09:35	11/29/23 12:22	1
Copper	<0.00500		0.00500		mg/L		11/27/23 09:35	11/29/23 12:22	1
Iron	0.924		0.100		mg/L		11/27/23 09:35	11/29/23 12:22	1
Lead	<0.000500		0.000500		mg/L		11/27/23 09:35	11/29/23 12:22	1
Magnesium	42.8		0.500		mg/L		11/27/23 09:35	11/29/23 12:22	1
Manganese	1.93		0.0100		mg/L		11/27/23 09:35	11/29/23 12:22	1
Nickel	<0.00500		0.00500		mg/L		11/27/23 09:35	11/29/23 12:22	1
Potassium	4.92		0.500		mg/L		11/27/23 09:35	11/29/23 12:22	1

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Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: GW4

Lab Sample ID: 310-269966-16

Date Collected: 11/16/23 15:10

Matrix: Water

Date Received: 11/18/23 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.00500		0.00500		mg/L		11/27/23 09:35	11/29/23 12:22	1
Silver	<0.00100		0.00100		mg/L		11/27/23 09:35	11/29/23 12:22	1
Sodium	43.7		1.00		mg/L		11/27/23 09:35	11/29/23 12:22	1
Thallium	<0.00100		0.00100		mg/L		11/27/23 09:35	11/29/23 12:22	1
Vanadium	<0.00500		0.00500		mg/L		11/27/23 09:35	11/29/23 12:22	1
Zinc	<0.0200		0.0200		mg/L		11/27/23 09:35	11/29/23 12:22	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		12/11/23 12:04	12/12/23 10:19	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		12/11/23 12:07	12/12/23 11:22	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: FB2

Lab Sample ID: 310-269966-17

Date Collected: 11/17/23 09:35

Matrix: Water

Date Received: 11/18/23 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00		ug/L			11/29/23 14:47	1
1,1,1-Trichloroethane	<1.00		1.00		ug/L			11/29/23 14:47	1
1,1,2,2-Tetrachloroethane	<1.00		1.00		ug/L			11/29/23 14:47	1
1,1,2-Trichloroethane	<1.00		1.00		ug/L			11/29/23 14:47	1
1,1-Dichloroethane	<1.00		1.00		ug/L			11/30/23 13:21	1
1,1-Dichloroethene	<2.00		2.00		ug/L			11/29/23 14:47	1
1,1-Dichloropropene	<1.00		1.00		ug/L			11/29/23 14:47	1
1,2,3-Trichlorobenzene	<5.00		5.00		ug/L			11/29/23 14:47	1
1,2,3-Trichloropropane	<1.00		1.00		ug/L			11/29/23 14:47	1
1,2,4-Trichlorobenzene	<5.00		5.00		ug/L			11/29/23 14:47	1
1,2,4-Trimethylbenzene	<1.00		1.00		ug/L			11/29/23 14:47	1
1,2-Dibromo-3-chloropropane	<5.00		5.00		ug/L			11/29/23 14:47	1
1,2-Dibromoethane (EDB)	<1.00		1.00		ug/L			11/29/23 14:47	1
1,2-Dichlorobenzene	<1.00		1.00		ug/L			11/29/23 14:47	1
1,2-Dichloroethane	<1.00		1.00		ug/L			11/29/23 14:47	1
1,2-Dichloropropane	<1.00		1.00		ug/L			11/29/23 14:47	1
1,3,5-Trimethylbenzene	<1.00		1.00		ug/L			11/29/23 14:47	1
1,3-Dichlorobenzene	<1.00		1.00		ug/L			11/29/23 14:47	1
1,3-Dichloropropane	<1.00		1.00		ug/L			11/29/23 14:47	1
1,4-Dichlorobenzene	<1.00		1.00		ug/L			11/29/23 14:47	1
2,2-Dichloropropane	<4.00		4.00		ug/L			11/30/23 13:21	1
2-Butanone (MEK)	<10.0		10.0		ug/L			11/29/23 14:47	1
2-Chlorotoluene	<1.00		1.00		ug/L			11/29/23 14:47	1
4-Chlorotoluene	<1.00		1.00		ug/L			11/29/23 14:47	1
Acetone	<10.0		10.0		ug/L			11/29/23 14:47	1
Benzene	<0.500		0.500		ug/L			11/29/23 14:47	1
Bromobenzene	<1.00		1.00		ug/L			11/29/23 14:47	1
Bromochloromethane	<5.00		5.00		ug/L			11/29/23 14:47	1
Bromodichloromethane	<1.00		1.00		ug/L			11/29/23 14:47	1
Bromoform	<5.00		5.00		ug/L			11/29/23 14:47	1
Bromomethane	<4.00		4.00		ug/L			11/29/23 14:47	1
Carbon disulfide	<1.00		1.00		ug/L			11/29/23 14:47	1
Carbon tetrachloride	<2.00		2.00		ug/L			11/29/23 14:47	1
Chlorobenzene	<1.00		1.00		ug/L			11/29/23 14:47	1
Chlorodibromomethane	<5.00		5.00		ug/L			11/29/23 14:47	1
Chloroethane	<4.00		4.00		ug/L			11/29/23 14:47	1
Chloroform	<3.00		3.00		ug/L			11/29/23 14:47	1
Chloromethane	<3.00		3.00		ug/L			11/29/23 14:47	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			11/29/23 14:47	1
cis-1,3-Dichloropropene	<5.00		5.00		ug/L			11/29/23 14:47	1
Dibromomethane	<1.00		1.00		ug/L			11/29/23 14:47	1
Dichlorodifluoromethane	<3.00		3.00		ug/L			11/29/23 14:47	1
Ethylbenzene	<1.00		1.00		ug/L			11/29/23 14:47	1
Hexachlorobutadiene	<5.00		5.00		ug/L			11/29/23 14:47	1
Hexane	<1.00		1.00		ug/L			11/29/23 14:47	1
Isopropylbenzene	<1.00		1.00		ug/L			11/29/23 14:47	1
Methyl tert-butyl ether	<1.00		1.00		ug/L			11/29/23 14:47	1
Methylene chloride	<5.00		5.00		ug/L			11/29/23 14:47	1
Naphthalene	<5.00		5.00		ug/L			11/29/23 14:47	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: FB2

Lab Sample ID: 310-269966-17

Date Collected: 11/17/23 09:35

Matrix: Water

Date Received: 11/18/23 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	<1.00		1.00		ug/L			11/29/23 14:47	1
n-Propylbenzene	<1.00		1.00		ug/L			11/29/23 14:47	1
p-Isopropyltoluene	<1.00		1.00		ug/L			11/29/23 14:47	1
sec-Butylbenzene	<1.00		1.00		ug/L			11/29/23 14:47	1
Styrene	<1.00		1.00		ug/L			11/29/23 14:47	1
tert-Butylbenzene	<1.00		1.00		ug/L			11/29/23 14:47	1
Tetrachloroethene	<1.00		1.00		ug/L			11/29/23 14:47	1
Toluene	<1.00		1.00		ug/L			11/29/23 14:47	1
trans-1,2-Dichloroethene	<1.00		1.00		ug/L			11/29/23 14:47	1
trans-1,3-Dichloropropene	<5.00		5.00		ug/L			11/29/23 14:47	1
Trichloroethene	<1.00		1.00		ug/L			11/29/23 14:47	1
Trichlorofluoromethane	<4.00		4.00		ug/L			11/30/23 13:21	1
Vinyl chloride	<1.00		1.00		ug/L			11/30/23 13:21	1
Xylenes, Total	<3.00		3.00		ug/L			11/29/23 14:47	1
TPH-GRO (C6-C10)	<400		400		ug/L			11/29/23 14:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	89		80 - 128		11/29/23 14:47	1
Dibromofluoromethane (Surr)	109		80 - 128		11/30/23 13:21	1
Toluene-d8 (Surr)	106		80 - 120		11/29/23 14:47	1
Toluene-d8 (Surr)	95		80 - 120		11/30/23 13:21	1
4-Bromofluorobenzene (Surr)	101		80 - 120		11/29/23 14:47	1
4-Bromofluorobenzene (Surr)	108		80 - 120		11/30/23 13:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
1,2-Dichlorobenzene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
1,3-Dichlorobenzene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
1,4-Dichlorobenzene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
2,4,5-Trichlorophenol	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
2,4,6-Trichlorophenol	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
2,4-Dichlorophenol	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
2,4-Dimethylphenol	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
2,4-Dinitrophenol	<18.9		18.9		ug/L		11/21/23 05:22	12/01/23 22:25	1
2,4-Dinitrotoluene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
2,6-Dinitrotoluene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
2-Chloronaphthalene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
2-Chlorophenol	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
2-Methylnaphthalene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
2-Methylphenol	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
2-Nitroaniline	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
2-Nitrophenol	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
3,3'-Dichlorobenzidine	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
3-Nitroaniline	<9.43	*	9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
4,6-Dinitro-2-methylphenol	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
4-Bromophenyl phenyl ether	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
4-Chloro-3-methylphenol	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
4-Chloroaniline	<9.43	*- *1	9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
4-Chlorophenyl phenyl ether	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: FB2

Lab Sample ID: 310-269966-17

Date Collected: 11/17/23 09:35

Matrix: Water

Date Received: 11/18/23 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methylphenol (and/or 3-Methylphenol)	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
4-Nitroaniline	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
4-Nitrophenol	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
Acenaphthene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
Acenaphthylene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
Anthracene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
Benzidine	<18.9		18.9		ug/L		11/21/23 05:22	12/01/23 22:25	1
Benzo(a)anthracene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
Benzo(a)pyrene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
Benzo(b)fluoranthene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
Benzo(g,h,i)perylene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
Benzo(k)fluoranthene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
Benzoic acid	<94.3		94.3		ug/L		11/21/23 05:22	12/01/23 22:25	1
Benzyl alcohol	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
Bis(2-chloroethoxy)methane	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
Bis(2-chloroethyl)ether	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
bis(2-chloroisopropyl) ether	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
Bis(2-ethylhexyl) phthalate	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
Butyl benzyl phthalate	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
Carbazole	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
Chrysene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
Dibenzo(a,h)anthracene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
Dibenzofuran	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
Diethyl phthalate	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
Dimethyl phthalate	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
Di-n-butyl phthalate	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
Di-n-octyl phthalate	<18.9		18.9		ug/L		11/21/23 05:22	12/01/23 22:25	1
Fluoranthene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
Fluorene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
Hexachlorobenzene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
Hexachlorobutadiene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
Hexachlorocyclopentadiene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
Hexachloroethane	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
Indeno(1,2,3-cd)pyrene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
Isophorone	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
Naphthalene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
Nitrobenzene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
N-Nitrosodimethylamine	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
N-Nitrosodi-n-propylamine	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
N-Nitrosodiphenylamine	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
Pentachlorophenol	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
Phenanthrene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
Phenol	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
Pyrene	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
Pyridine	<9.43	*- *1	9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
Total Cresols	<9.43		9.43		ug/L		11/21/23 05:22	12/01/23 22:25	1
TPH-DRO (C10-C21)	<472		472		ug/L		11/21/23 05:22	12/01/23 22:25	1
TPH-ORO (C21-C35)	<472	*-	472		ug/L		11/21/23 05:22	12/01/23 22:25	1

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Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: FB2

Lab Sample ID: 310-269966-17

Date Collected: 11/17/23 09:35

Matrix: Water

Date Received: 11/18/23 08:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	77		25 - 110	11/21/23 05:22	12/01/23 22:25	1
Phenol-d5 (Surr)	60		21 - 110	11/21/23 05:22	12/01/23 22:25	1
Nitrobenzene-d5 (Surr)	103		45 - 129	11/21/23 05:22	12/01/23 22:25	1
2-Fluorobiphenyl (Surr)	97		39 - 118	11/21/23 05:22	12/01/23 22:25	1
2,4,6-Tribromophenol (Surr)	110		27 - 136	11/21/23 05:22	12/01/23 22:25	1
Terphenyl-d14 (Surr)	104		12 - 144	11/21/23 05:22	12/01/23 22:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0500		0.0500		mg/L		11/21/23 09:35	11/23/23 01:57	1
Antimony	<0.00200		0.00200		mg/L		11/21/23 09:35	11/23/23 01:57	1
Arsenic	<0.00200		0.00200		mg/L		11/21/23 09:35	11/23/23 01:57	1
Barium	<0.00200		0.00200		mg/L		11/21/23 09:35	11/23/23 01:57	1
Beryllium	<0.00100		0.00100		mg/L		11/21/23 09:35	11/23/23 01:57	1
Cadmium	<0.000200		0.000200		mg/L		11/21/23 09:35	11/23/23 01:57	1
Calcium	1.22		0.500		mg/L		11/21/23 09:35	11/23/23 01:57	1
Chromium	<0.00500		0.00500		mg/L		11/21/23 09:35	11/23/23 01:57	1
Cobalt	<0.000500		0.000500		mg/L		11/21/23 09:35	11/23/23 01:57	1
Copper	<0.00500		0.00500		mg/L		11/21/23 09:35	11/23/23 01:57	1
Iron	<0.100		0.100		mg/L		11/21/23 09:35	11/23/23 01:57	1
Lead	<0.000500		0.000500		mg/L		11/21/23 09:35	11/23/23 01:57	1
Magnesium	<0.500		0.500		mg/L		11/21/23 09:35	11/23/23 01:57	1
Manganese	<0.0100		0.0100		mg/L		11/21/23 09:35	11/23/23 01:57	1
Nickel	<0.00500		0.00500		mg/L		11/21/23 09:35	11/23/23 01:57	1
Potassium	<0.500		0.500		mg/L		11/21/23 09:35	11/23/23 01:57	1
Selenium	<0.00500		0.00500		mg/L		11/21/23 09:35	11/23/23 01:57	1
Silver	<0.00100		0.00100		mg/L		11/21/23 09:35	11/23/23 01:57	1
Sodium	<1.00		1.00		mg/L		11/21/23 09:35	11/23/23 01:57	1
Thallium	<0.00100		0.00100		mg/L		11/21/23 09:35	11/23/23 01:57	1
Vanadium	<0.00500		0.00500		mg/L		11/21/23 09:35	11/23/23 01:57	1
Zinc	<0.0200		0.0200		mg/L		11/21/23 09:35	11/23/23 01:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0500		0.0500		mg/L		11/27/23 09:35	11/29/23 12:24	1
Antimony	<0.00200		0.00200		mg/L		11/27/23 09:35	11/29/23 12:24	1
Arsenic	<0.00200		0.00200		mg/L		11/27/23 09:35	11/29/23 12:24	1
Barium	<0.00200		0.00200		mg/L		11/27/23 09:35	11/29/23 12:24	1
Beryllium	<0.00100		0.00100		mg/L		11/27/23 09:35	11/29/23 12:24	1
Cadmium	<0.000200		0.000200		mg/L		11/27/23 09:35	11/29/23 12:24	1
Calcium	<0.500		0.500		mg/L		11/27/23 09:35	11/29/23 12:24	1
Chromium	<0.00500		0.00500		mg/L		11/27/23 09:35	11/29/23 12:24	1
Cobalt	<0.000500		0.000500		mg/L		11/27/23 09:35	11/29/23 12:24	1
Copper	<0.00500		0.00500		mg/L		11/27/23 09:35	11/29/23 12:24	1
Iron	<0.100		0.100		mg/L		11/27/23 09:35	11/29/23 12:24	1
Lead	<0.000500		0.000500		mg/L		11/27/23 09:35	11/29/23 12:24	1
Magnesium	<0.500		0.500		mg/L		11/27/23 09:35	11/29/23 12:24	1
Manganese	<0.0100		0.0100		mg/L		11/27/23 09:35	11/29/23 12:24	1
Nickel	<0.00500		0.00500		mg/L		11/27/23 09:35	11/29/23 12:24	1
Potassium	<0.500		0.500		mg/L		11/27/23 09:35	11/29/23 12:24	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: FB2

Lab Sample ID: 310-269966-17

Date Collected: 11/17/23 09:35

Matrix: Water

Date Received: 11/18/23 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.00500		0.00500		mg/L		11/27/23 09:35	11/29/23 12:24	1
Silver	<0.00100		0.00100		mg/L		11/27/23 09:35	11/29/23 12:24	1
Sodium	<1.00		1.00		mg/L		11/27/23 09:35	11/29/23 12:24	1
Thallium	<0.00100		0.00100		mg/L		11/27/23 09:35	11/29/23 12:24	1
Vanadium	<0.00500		0.00500		mg/L		11/27/23 09:35	11/29/23 12:24	1
Zinc	<0.0200		0.0200		mg/L		11/27/23 09:35	11/29/23 12:24	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		12/11/23 12:04	12/12/23 10:24	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		12/11/23 12:07	12/12/23 11:24	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: EB1

Lab Sample ID: 310-269966-18

Date Collected: 11/17/23 10:15

Matrix: Water

Date Received: 11/18/23 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00		ug/L			11/29/23 15:34	1
1,1,1-Trichloroethane	<1.00		1.00		ug/L			11/29/23 15:34	1
1,1,2,2-Tetrachloroethane	<1.00		1.00		ug/L			11/29/23 15:34	1
1,1,2-Trichloroethane	<1.00		1.00		ug/L			11/29/23 15:34	1
1,1-Dichloroethane	<1.00		1.00		ug/L			11/30/23 13:43	1
1,1-Dichloroethene	<2.00		2.00		ug/L			11/29/23 15:34	1
1,1-Dichloropropene	<1.00		1.00		ug/L			11/29/23 15:34	1
1,2,3-Trichlorobenzene	<5.00		5.00		ug/L			11/29/23 15:34	1
1,2,3-Trichloropropane	<1.00		1.00		ug/L			11/29/23 15:34	1
1,2,4-Trichlorobenzene	<5.00		5.00		ug/L			11/29/23 15:34	1
1,2,4-Trimethylbenzene	<1.00		1.00		ug/L			11/29/23 15:34	1
1,2-Dibromo-3-chloropropane	<5.00		5.00		ug/L			11/29/23 15:34	1
1,2-Dibromoethane (EDB)	<1.00		1.00		ug/L			11/29/23 15:34	1
1,2-Dichlorobenzene	<1.00		1.00		ug/L			11/29/23 15:34	1
1,2-Dichloroethane	<1.00		1.00		ug/L			11/29/23 15:34	1
1,2-Dichloropropane	<1.00		1.00		ug/L			11/29/23 15:34	1
1,3,5-Trimethylbenzene	<1.00		1.00		ug/L			11/29/23 15:34	1
1,3-Dichlorobenzene	<1.00		1.00		ug/L			11/29/23 15:34	1
1,3-Dichloropropane	<1.00		1.00		ug/L			11/29/23 15:34	1
1,4-Dichlorobenzene	<1.00		1.00		ug/L			11/29/23 15:34	1
2,2-Dichloropropane	<4.00		4.00		ug/L			11/30/23 13:43	1
2-Butanone (MEK)	<10.0		10.0		ug/L			11/29/23 15:34	1
2-Chlorotoluene	<1.00		1.00		ug/L			11/29/23 15:34	1
4-Chlorotoluene	<1.00		1.00		ug/L			11/29/23 15:34	1
Acetone	<10.0		10.0		ug/L			11/29/23 15:34	1
Benzene	<0.500		0.500		ug/L			11/29/23 15:34	1
Bromobenzene	<1.00		1.00		ug/L			11/29/23 15:34	1
Bromochloromethane	<5.00		5.00		ug/L			11/29/23 15:34	1
Bromodichloromethane	<1.00		1.00		ug/L			11/29/23 15:34	1
Bromoform	<5.00		5.00		ug/L			11/29/23 15:34	1
Bromomethane	<4.00		4.00		ug/L			11/29/23 15:34	1
Carbon disulfide	<1.00		1.00		ug/L			11/29/23 15:34	1
Carbon tetrachloride	<2.00		2.00		ug/L			11/29/23 15:34	1
Chlorobenzene	<1.00		1.00		ug/L			11/29/23 15:34	1
Chlorodibromomethane	<5.00		5.00		ug/L			11/29/23 15:34	1
Chloroethane	<4.00		4.00		ug/L			11/29/23 15:34	1
Chloroform	<3.00		3.00		ug/L			11/29/23 15:34	1
Chloromethane	<3.00		3.00		ug/L			11/29/23 15:34	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			11/29/23 15:34	1
cis-1,3-Dichloropropene	<5.00		5.00		ug/L			11/29/23 15:34	1
Dibromomethane	<1.00		1.00		ug/L			11/29/23 15:34	1
Dichlorodifluoromethane	<3.00		3.00		ug/L			11/29/23 15:34	1
Ethylbenzene	<1.00		1.00		ug/L			11/29/23 15:34	1
Hexachlorobutadiene	<5.00		5.00		ug/L			11/29/23 15:34	1
Hexane	<1.00		1.00		ug/L			11/29/23 15:34	1
Isopropylbenzene	<1.00		1.00		ug/L			11/29/23 15:34	1
Methyl tert-butyl ether	<1.00		1.00		ug/L			11/29/23 15:34	1
Methylene chloride	<5.00		5.00		ug/L			11/29/23 15:34	1
Naphthalene	<5.00		5.00		ug/L			11/29/23 15:34	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: EB1

Lab Sample ID: 310-269966-18

Date Collected: 11/17/23 10:15

Matrix: Water

Date Received: 11/18/23 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	<1.00		1.00		ug/L			11/29/23 15:34	1
n-Propylbenzene	<1.00		1.00		ug/L			11/29/23 15:34	1
p-Isopropyltoluene	<1.00		1.00		ug/L			11/29/23 15:34	1
sec-Butylbenzene	<1.00		1.00		ug/L			11/29/23 15:34	1
Styrene	<1.00		1.00		ug/L			11/29/23 15:34	1
tert-Butylbenzene	<1.00		1.00		ug/L			11/29/23 15:34	1
Tetrachloroethene	<1.00		1.00		ug/L			11/29/23 15:34	1
Toluene	<1.00		1.00		ug/L			11/29/23 15:34	1
trans-1,2-Dichloroethene	<1.00		1.00		ug/L			11/29/23 15:34	1
trans-1,3-Dichloropropene	<5.00		5.00		ug/L			11/29/23 15:34	1
Trichloroethene	<1.00		1.00		ug/L			11/29/23 15:34	1
Trichlorofluoromethane	<4.00		4.00		ug/L			11/30/23 13:43	1
Vinyl chloride	<1.00		1.00		ug/L			11/30/23 13:43	1
Xylenes, Total	<3.00		3.00		ug/L			11/29/23 15:34	1
TPH-GRO (C6-C10)	<400		400		ug/L			11/29/23 15:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	89		80 - 128		11/29/23 15:34	1
Dibromofluoromethane (Surr)	108		80 - 128		11/30/23 13:43	1
Toluene-d8 (Surr)	106		80 - 120		11/29/23 15:34	1
Toluene-d8 (Surr)	92		80 - 120		11/30/23 13:43	1
4-Bromofluorobenzene (Surr)	101		80 - 120		11/29/23 15:34	1
4-Bromofluorobenzene (Surr)	105		80 - 120		11/30/23 13:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
1,2-Dichlorobenzene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
1,3-Dichlorobenzene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
1,4-Dichlorobenzene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
2,4,5-Trichlorophenol	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
2,4,6-Trichlorophenol	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
2,4-Dichlorophenol	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
2,4-Dimethylphenol	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
2,4-Dinitrophenol	<20.0		20.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
2,4-Dinitrotoluene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
2,6-Dinitrotoluene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
2-Chloronaphthalene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
2-Chlorophenol	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
2-Methylnaphthalene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
2-Methylphenol	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
2-Nitroaniline	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
2-Nitrophenol	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
3,3'-Dichlorobenzidine	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
3-Nitroaniline	<10.0	*	10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
4,6-Dinitro-2-methylphenol	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
4-Bromophenyl phenyl ether	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
4-Chloro-3-methylphenol	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
4-Chloroaniline	<10.0	*- *1	10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
4-Chlorophenyl phenyl ether	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: EB1

Lab Sample ID: 310-269966-18

Date Collected: 11/17/23 10:15

Matrix: Water

Date Received: 11/18/23 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methylphenol (and/or 3-Methylphenol)	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
4-Nitroaniline	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
4-Nitrophenol	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
Acenaphthene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
Acenaphthylene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
Anthracene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
Benzidine	<20.0		20.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
Benzo(a)anthracene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
Benzo(a)pyrene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
Benzo(b)fluoranthene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
Benzo(g,h,i)perylene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
Benzo(k)fluoranthene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
Benzoic acid	<100		100		ug/L		11/21/23 05:22	12/01/23 22:51	1
Benzyl alcohol	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
Bis(2-chloroethoxy)methane	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
Bis(2-chloroethyl)ether	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
bis(2-chloroisopropyl) ether	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
Bis(2-ethylhexyl) phthalate	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
Butyl benzyl phthalate	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
Carbazole	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
Chrysene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
Dibenzo(a,h)anthracene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
Dibenzofuran	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
Diethyl phthalate	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
Dimethyl phthalate	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
Di-n-butyl phthalate	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
Di-n-octyl phthalate	<20.0		20.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
Fluoranthene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
Fluorene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
Hexachlorobenzene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
Hexachlorobutadiene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
Hexachlorocyclopentadiene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
Hexachloroethane	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
Indeno(1,2,3-cd)pyrene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
Isophorone	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
Naphthalene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
Nitrobenzene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
N-Nitrosodimethylamine	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
N-Nitrosodi-n-propylamine	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
N-Nitrosodiphenylamine	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
Pentachlorophenol	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
Phenanthrene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
Phenol	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
Pyrene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
Pyridine	<10.0	*- *1	10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
Total Cresols	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 22:51	1
TPH-DRO (C10-C21)	<500		500		ug/L		11/21/23 05:22	12/01/23 22:51	1
TPH-ORO (C21-C35)	<500	*-	500		ug/L		11/21/23 05:22	12/01/23 22:51	1

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Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: EB1

Lab Sample ID: 310-269966-18

Date Collected: 11/17/23 10:15

Matrix: Water

Date Received: 11/18/23 08:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	70		25 - 110	11/21/23 05:22	12/01/23 22:51	1
Phenol-d5 (Surr)	54		21 - 110	11/21/23 05:22	12/01/23 22:51	1
Nitrobenzene-d5 (Surr)	91		45 - 129	11/21/23 05:22	12/01/23 22:51	1
2-Fluorobiphenyl (Surr)	81		39 - 118	11/21/23 05:22	12/01/23 22:51	1
2,4,6-Tribromophenol (Surr)	94		27 - 136	11/21/23 05:22	12/01/23 22:51	1
Terphenyl-d14 (Surr)	95		12 - 144	11/21/23 05:22	12/01/23 22:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0500		0.0500		mg/L		11/21/23 09:35	11/23/23 02:03	1
Antimony	<0.00200		0.00200		mg/L		11/21/23 09:35	11/23/23 02:03	1
Arsenic	<0.00200		0.00200		mg/L		11/21/23 09:35	11/23/23 02:03	1
Barium	<0.00200		0.00200		mg/L		11/21/23 09:35	11/23/23 02:03	1
Beryllium	<0.00100		0.00100		mg/L		11/21/23 09:35	11/23/23 02:03	1
Cadmium	<0.000200		0.000200		mg/L		11/21/23 09:35	11/23/23 02:03	1
Calcium	<0.500		0.500		mg/L		11/21/23 09:35	11/23/23 02:03	1
Chromium	<0.00500		0.00500		mg/L		11/21/23 09:35	11/23/23 02:03	1
Cobalt	<0.000500		0.000500		mg/L		11/21/23 09:35	11/23/23 02:03	1
Copper	<0.00500		0.00500		mg/L		11/21/23 09:35	11/23/23 02:03	1
Iron	<0.100		0.100		mg/L		11/21/23 09:35	11/23/23 02:03	1
Lead	<0.000500		0.000500		mg/L		11/21/23 09:35	11/23/23 02:03	1
Magnesium	<0.500		0.500		mg/L		11/21/23 09:35	11/23/23 02:03	1
Manganese	<0.0100		0.0100		mg/L		11/21/23 09:35	11/23/23 02:03	1
Nickel	<0.00500		0.00500		mg/L		11/21/23 09:35	11/23/23 02:03	1
Potassium	<0.500		0.500		mg/L		11/21/23 09:35	11/23/23 02:03	1
Selenium	<0.00500		0.00500		mg/L		11/21/23 09:35	11/23/23 02:03	1
Silver	<0.00100		0.00100		mg/L		11/21/23 09:35	11/23/23 02:03	1
Sodium	<1.00		1.00		mg/L		11/21/23 09:35	11/23/23 02:03	1
Thallium	<0.00100		0.00100		mg/L		11/21/23 09:35	11/23/23 02:03	1
Vanadium	<0.00500		0.00500		mg/L		11/21/23 09:35	11/23/23 02:03	1
Zinc	<0.0200		0.0200		mg/L		11/21/23 09:35	11/23/23 02:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0500		0.0500		mg/L		11/27/23 09:35	11/29/23 12:54	1
Antimony	<0.00200		0.00200		mg/L		11/27/23 09:35	11/29/23 12:54	1
Arsenic	<0.00200		0.00200		mg/L		11/27/23 09:35	11/29/23 12:54	1
Barium	<0.00200		0.00200		mg/L		11/27/23 09:35	11/29/23 12:54	1
Beryllium	<0.00100		0.00100		mg/L		11/27/23 09:35	11/29/23 12:54	1
Cadmium	<0.000200		0.000200		mg/L		11/27/23 09:35	11/29/23 12:26	1
Calcium	<0.500		0.500		mg/L		11/27/23 09:35	11/29/23 12:54	1
Chromium	<0.00500		0.00500		mg/L		11/27/23 09:35	11/29/23 12:54	1
Cobalt	<0.000500		0.000500		mg/L		11/27/23 09:35	11/29/23 12:54	1
Copper	<0.00500		0.00500		mg/L		11/27/23 09:35	11/29/23 12:54	1
Iron	<0.100		0.100		mg/L		11/27/23 09:35	11/29/23 12:54	1
Lead	<0.000500		0.000500		mg/L		11/27/23 09:35	11/29/23 12:54	1
Magnesium	<0.500		0.500		mg/L		11/27/23 09:35	11/29/23 12:54	1
Manganese	<0.0100		0.0100		mg/L		11/27/23 09:35	11/29/23 12:54	1
Nickel	<0.00500		0.00500		mg/L		11/27/23 09:35	11/29/23 12:54	1
Potassium	<0.500		0.500		mg/L		11/27/23 09:35	11/29/23 12:54	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: EB1

Lab Sample ID: 310-269966-18

Date Collected: 11/17/23 10:15

Matrix: Water

Date Received: 11/18/23 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.00500		0.00500		mg/L		11/27/23 09:35	11/29/23 12:54	1
Silver	<0.00100		0.00100		mg/L		11/27/23 09:35	11/29/23 12:54	1
Sodium	<1.00		1.00		mg/L		11/27/23 09:35	11/29/23 12:54	1
Thallium	<0.00100		0.00100		mg/L		11/27/23 09:35	11/29/23 12:54	1
Vanadium	<0.00500		0.00500		mg/L		11/27/23 09:35	11/29/23 12:54	1
Zinc	<0.0200		0.0200		mg/L		11/27/23 09:35	11/29/23 12:54	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		12/11/23 12:04	12/12/23 10:27	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		12/11/23 12:07	12/12/23 11:26	1

Definitions/Glossary

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

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 and/or LCSD is outside acceptance limits, low biased.
*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.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F3	Duplicate RPD exceeds the control limit

Glossary

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

Surrogate Summary

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		DBFM (80-131)	TOL (80-120)	BFB (78-120)
310-269966-1	SB1 (0-3)	110	91	93
310-269966-2	SB1 (22-25)	105	94	100
310-269966-3	SB2 (0-3)	106	96	97
310-269966-4	SB2 (22-24)	108	95	96
310-269966-5	SB3 (0-3)	104	92	99
310-269966-6	SB3 (20-22)	107	92	96
310-269966-7	SB4 (0-3)	106	94	96
310-269966-8	SB4 (15-17)A	105	93	93
310-269966-9	SB4 (15-17)B	105	93	95
310-269966-10	SB5 (0-3)	105	92	95
310-269966-11	SB5 (18-20)	106	96	90
LCS 310-407432/2-A	Lab Control Sample	105	96	101
LCS 310-407432/3-A	Lab Control Sample	101	97	101
MB 310-407432/1-A	Method Blank	103	93	97
Surrogate Legend				
DBFM = Dibromofluoromethane (Surr)				
TOL = Toluene-d8 (Surr)				
BFB = 4-Bromofluorobenzene (Surr)				

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		DBFM (80-128)	TOL (80-120)	BFB (80-120)
310-269966-12	GW2A	91	107	100
310-269966-12	GW2A	109	91	109
310-269966-13	GW2B	89	107	102
310-269966-13	GW2B	110	92	109
310-269966-14	GW3	89	105	99
310-269966-14	GW3	110	94	107
310-269966-15	FB1	90	106	102
310-269966-15	FB1	110	92	108
310-269966-16	GW4	89	106	100
310-269966-16	GW4	106	92	104
310-269966-17	FB2	89	106	101
310-269966-17	FB2	109	95	108
310-269966-18	EB1	89	106	101
310-269966-18	EB1	108	92	105
LCS 310-407335/10	Lab Control Sample	89	105	101
LCS 310-407335/8	Lab Control Sample	95	106	103
LCS 310-407335/9	Lab Control Sample	89	106	102
LCS 310-407445/7	Lab Control Sample	100	98	104
LCS 310-407445/8	Lab Control Sample	108	93	106
MB 310-407335/7	Method Blank	90	105	102
MB 310-407445/6	Method Blank	107	93	106
Surrogate Legend				
DBFM = Dibromofluoromethane (Surr)				
TOL = Toluene-d8 (Surr)				

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Surrogate Summary

Client: Tetra Tech EM Inc.

Job ID: 310-269966-1

Project/Site: Cameron City Park Site, Cameron MO

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (18-126)	PHL (25-119)	NBZ (15-131)	FBP (28-116)	TBP (10-121)	TPHL (24-132)
310-269966-1	SB1 (0-3)	63	65	66	57	67	57
310-269966-1 MS	SB1 (0-3)	80	81	82	77	89	83
310-269966-1 MSD	SB1 (0-3)	77	79	82	73	84	78
310-269966-2	SB1 (22-25)	68	70	76	63	69	67
310-269966-3	SB2 (0-3)	74	75	78	68	79	68
310-269966-4	SB2 (22-24)	69	70	74	63	68	66
310-269966-5	SB3 (0-3)	74	78	83	75	82	83
310-269966-6	SB3 (20-22)	77	80	61	76	87	92
310-269966-7	SB4 (0-3)	90	93	98	87	97	111
310-269966-8	SB4 (15-17)A	90	93	95	99	77	105
310-269966-9	SB4 (15-17)B	94	98	98	103	86	109
310-269966-10	SB5 (0-3)	78	79	88	78	84	99
310-269966-11	SB5 (18-20)	83	87	88	94	83	102
LCS 310-407164/2-A	Lab Control Sample	75	76	78	69	70	73
LCS 310-407164/3-A	Lab Control Sample	71	71	73	63	72	69
MB 310-407164/1-A	Method Blank	77	79	79	69	72	73

Surrogate Legend

2FP = 2-Fluorophenol (Surr)

PHL = Phenol-d5 (Surr)

NBZ = Nitrobenzene-d5 (Surr)

FBP = 2-Fluorobiphenyl (Surr)

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

TPHL = Terphenyl-d14 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (25-110)	PHL (21-110)	NBZ (45-129)	FBP (39-118)	TBP (27-136)	TPHL (12-144)
310-269966-12	GW2A	73	60	97	83	92	87
310-269966-13	GW2B	68	53	93	83	96	83
310-269966-14	GW3	71	56	96	83	96	80
310-269966-15	FB1	69	56	97	87	100	98
310-269966-16	GW4	70	59	91	82	94	84
310-269966-17	FB2	77	60	103	97	110	104
310-269966-18	EB1	70	54	91	81	94	95
LCS 310-406676/2-A	Lab Control Sample	85	68	102	85	113	110
LCS 310-406676/4-A	Lab Control Sample			87	74		83
LCSD 310-406676/3-A	Lab Control Sample Dup	70	56	88	77	105	100
LCSD 310-406676/5-A	Lab Control Sample Dup			93	78		80
MB 310-406676/1-A	Method Blank	84	69	101	85	110	108

Surrogate Legend

2FP = 2-Fluorophenol (Surr)

PHL = Phenol-d5 (Surr)

NBZ = Nitrobenzene-d5 (Surr)

FBP = 2-Fluorobiphenyl (Surr)

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

Eurofins Cedar Falls

Surrogate Summary

Client: Tetra Tech EM Inc.

Project/Site: Cameron City Park Site, Cameron MO

TPHL = Terphenyl-d14 (Surr)

Job ID: 310-269966-1

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QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

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

Lab Sample ID: MB 310-407335/7

Matrix: Water

Analysis Batch: 407335

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00		ug/L			11/29/23 12:26	1
1,1,1-Trichloroethane	<1.00		1.00		ug/L			11/29/23 12:26	1
1,1,2,2-Tetrachloroethane	<1.00		1.00		ug/L			11/29/23 12:26	1
1,1,2-Trichloroethane	<1.00		1.00		ug/L			11/29/23 12:26	1
1,1-Dichloroethene	<2.00		2.00		ug/L			11/29/23 12:26	1
1,1-Dichloropropene	<1.00		1.00		ug/L			11/29/23 12:26	1
1,2,3-Trichlorobenzene	<5.00		5.00		ug/L			11/29/23 12:26	1
1,2,3-Trichloropropane	<1.00		1.00		ug/L			11/29/23 12:26	1
1,2,4-Trichlorobenzene	<5.00		5.00		ug/L			11/29/23 12:26	1
1,2,4-Trimethylbenzene	<1.00		1.00		ug/L			11/29/23 12:26	1
1,2-Dibromo-3-chloropropane	<5.00		5.00		ug/L			11/29/23 12:26	1
1,2-Dibromoethane (EDB)	<1.00		1.00		ug/L			11/29/23 12:26	1
1,2-Dichlorobenzene	<1.00		1.00		ug/L			11/29/23 12:26	1
1,2-Dichloroethane	<1.00		1.00		ug/L			11/29/23 12:26	1
1,2-Dichloropropane	<1.00		1.00		ug/L			11/29/23 12:26	1
1,3,5-Trimethylbenzene	<1.00		1.00		ug/L			11/29/23 12:26	1
1,3-Dichlorobenzene	<1.00		1.00		ug/L			11/29/23 12:26	1
1,3-Dichloropropane	<1.00		1.00		ug/L			11/29/23 12:26	1
1,4-Dichlorobenzene	<1.00		1.00		ug/L			11/29/23 12:26	1
2-Butanone (MEK)	<10.0		10.0		ug/L			11/29/23 12:26	1
2-Chlorotoluene	<1.00		1.00		ug/L			11/29/23 12:26	1
4-Chlorotoluene	<1.00		1.00		ug/L			11/29/23 12:26	1
Acetone	<10.0		10.0		ug/L			11/29/23 12:26	1
Benzene	<0.500		0.500		ug/L			11/29/23 12:26	1
Bromobenzene	<1.00		1.00		ug/L			11/29/23 12:26	1
Bromochloromethane	<5.00		5.00		ug/L			11/29/23 12:26	1
Bromodichloromethane	<1.00		1.00		ug/L			11/29/23 12:26	1
Bromoform	<5.00		5.00		ug/L			11/29/23 12:26	1
Bromomethane	<4.00		4.00		ug/L			11/29/23 12:26	1
Carbon disulfide	<1.00		1.00		ug/L			11/29/23 12:26	1
Carbon tetrachloride	<2.00		2.00		ug/L			11/29/23 12:26	1
Chlorobenzene	<1.00		1.00		ug/L			11/29/23 12:26	1
Chlorodibromomethane	<5.00		5.00		ug/L			11/29/23 12:26	1
Chloroethane	<4.00		4.00		ug/L			11/29/23 12:26	1
Chloroform	<3.00		3.00		ug/L			11/29/23 12:26	1
Chloromethane	<3.00		3.00		ug/L			11/29/23 12:26	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			11/29/23 12:26	1
cis-1,3-Dichloropropene	<5.00		5.00		ug/L			11/29/23 12:26	1
Dibromomethane	<1.00		1.00		ug/L			11/29/23 12:26	1
Dichlorodifluoromethane	<3.00		3.00		ug/L			11/29/23 12:26	1
Ethylbenzene	<1.00		1.00		ug/L			11/29/23 12:26	1
Hexachlorobutadiene	<5.00		5.00		ug/L			11/29/23 12:26	1
Hexane	<1.00		1.00		ug/L			11/29/23 12:26	1
Isopropylbenzene	<1.00		1.00		ug/L			11/29/23 12:26	1
Methyl tert-butyl ether	<1.00		1.00		ug/L			11/29/23 12:26	1
Methylene chloride	<5.00		5.00		ug/L			11/29/23 12:26	1
Naphthalene	<5.00		5.00		ug/L			11/29/23 12:26	1
n-Butylbenzene	<1.00		1.00		ug/L			11/29/23 12:26	1

Eurofins Cedar Falls

QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

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

Lab Sample ID: MB 310-407335/7

Matrix: Water

Analysis Batch: 407335

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Propylbenzene	<1.00		1.00		ug/L			11/29/23 12:26	1
p-Isopropyltoluene	<1.00		1.00		ug/L			11/29/23 12:26	1
sec-Butylbenzene	<1.00		1.00		ug/L			11/29/23 12:26	1
Styrene	<1.00		1.00		ug/L			11/29/23 12:26	1
tert-Butylbenzene	<1.00		1.00		ug/L			11/29/23 12:26	1
Tetrachloroethene	<1.00		1.00		ug/L			11/29/23 12:26	1
Toluene	<1.00		1.00		ug/L			11/29/23 12:26	1
trans-1,2-Dichloroethene	<1.00		1.00		ug/L			11/29/23 12:26	1
trans-1,3-Dichloropropene	<5.00		5.00		ug/L			11/29/23 12:26	1
Trichloroethene	<1.00		1.00		ug/L			11/29/23 12:26	1
Xylenes, Total	<3.00		3.00		ug/L			11/29/23 12:26	1
TPH-GRO (C6-C10)	<400		400		ug/L			11/29/23 12:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	90		80 - 128		11/29/23 12:26	1
Toluene-d8 (Surr)	105		80 - 120		11/29/23 12:26	1
4-Bromofluorobenzene (Surr)	102		80 - 120		11/29/23 12:26	1

Lab Sample ID: LCS 310-407335/10

Matrix: Water

Analysis Batch: 407335

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	10.70		ug/L		54	24 - 150
Chloroethane	20.0	15.38		ug/L		77	51 - 137
Chloromethane	20.0	14.90		ug/L		75	37 - 150
Dichlorodifluoromethane	20.0	16.44		ug/L		82	37 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	89		80 - 128
Toluene-d8 (Surr)	105		80 - 120
4-Bromofluorobenzene (Surr)	101		80 - 120

Lab Sample ID: LCS 310-407335/8

Matrix: Water

Analysis Batch: 407335

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	18.19		ug/L		91	68 - 123
1,1,1-Trichloroethane	20.0	17.27		ug/L		86	71 - 128
1,1,2,2-Tetrachloroethane	20.0	20.90		ug/L		104	64 - 124
1,1,2-Trichloroethane	20.0	17.84		ug/L		89	70 - 124
1,1-Dichloroethene	20.0	16.04		ug/L		80	61 - 129
1,1-Dichloropropene	20.0	16.64		ug/L		83	70 - 131
1,2,3-Trichlorobenzene	20.0	19.91		ug/L		100	50 - 150
1,2,3-Trichloropropane	20.0	18.85		ug/L		94	64 - 125
1,2,4-Trichlorobenzene	20.0	19.79		ug/L		99	61 - 124
1,2,4-Trimethylbenzene	20.0	18.69		ug/L		93	65 - 125

Eurofins Cedar Falls

QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

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

Lab Sample ID: LCS 310-407335/8

Matrix: Water

Analysis Batch: 407335

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-chloropropane	20.0	21.70		ug/L		108	50 - 150
1,2-Dibromoethane (EDB)	20.0	18.08		ug/L		90	73 - 125
1,2-Dichlorobenzene	20.0	20.07		ug/L		100	68 - 120
1,2-Dichloroethane	20.0	17.30		ug/L		86	70 - 124
1,2-Dichloropropane	20.0	17.54		ug/L		88	73 - 121
1,3,5-Trimethylbenzene	20.0	18.36		ug/L		92	65 - 124
1,3-Dichlorobenzene	20.0	19.23		ug/L		96	67 - 123
1,3-Dichloropropane	20.0	17.50		ug/L		88	72 - 124
1,4-Dichlorobenzene	20.0	20.12		ug/L		101	67 - 120
2-Butanone (MEK)	40.0	42.72		ug/L		107	50 - 150
2-Chlorotoluene	20.0	18.28		ug/L		91	66 - 122
4-Chlorotoluene	20.0	18.45		ug/L		92	65 - 122
Acetone	40.0	43.88		ug/L		110	50 - 150
Benzene	20.0	16.55		ug/L		83	73 - 122
Bromobenzene	20.0	17.45		ug/L		87	67 - 124
Bromochloromethane	20.0	18.17		ug/L		91	68 - 132
Bromodichloromethane	20.0	17.23		ug/L		86	72 - 121
Bromoform	20.0	17.34		ug/L		87	55 - 129
Carbon disulfide	20.0	15.74		ug/L		79	58 - 131
Carbon tetrachloride	20.0	17.60		ug/L		88	67 - 132
Chlorobenzene	20.0	17.83		ug/L		89	69 - 121
Chlorodibromomethane	20.0	16.87		ug/L		84	69 - 122
Chloroform	20.0	17.27		ug/L		86	72 - 120
cis-1,2-Dichloroethene	20.0	17.01		ug/L		85	74 - 120
cis-1,3-Dichloropropene	20.0	18.88		ug/L		94	71 - 126
Dibromomethane	20.0	17.23		ug/L		86	72 - 123
Ethylbenzene	20.0	18.33		ug/L		92	69 - 122
Hexachlorobutadiene	20.0	19.42		ug/L		97	49 - 150
Hexane	20.0	19.29		ug/L		96	35 - 150
Isopropylbenzene	20.0	18.34		ug/L		92	66 - 126
Methyl tert-butyl ether	20.0	20.24		ug/L		101	68 - 127
Methylene chloride	20.0	17.00		ug/L		85	50 - 150
Naphthalene	20.0	21.58		ug/L		108	50 - 150
n-Butylbenzene	20.0	20.84		ug/L		104	54 - 138
n-Propylbenzene	20.0	18.57		ug/L		93	65 - 127
p-Isopropyltoluene	20.0	19.95		ug/L		100	61 - 128
sec-Butylbenzene	20.0	18.63		ug/L		93	62 - 132
Styrene	20.0	18.76		ug/L		94	67 - 125
tert-Butylbenzene	20.0	17.86		ug/L		89	64 - 127
Tetrachloroethene	20.0	16.81		ug/L		84	69 - 131
Toluene	20.0	16.76		ug/L		84	72 - 121
trans-1,2-Dichloroethene	20.0	16.54		ug/L		83	68 - 125
trans-1,3-Dichloropropene	20.0	17.93		ug/L		90	68 - 124
Trichloroethene	20.0	16.30		ug/L		81	73 - 126
Xylenes, Total	40.0	36.33		ug/L		91	68 - 124

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	95		80 - 128

Eurofins Cedar Falls

QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

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

Lab Sample ID: LCS 310-407335/8

Matrix: Water

Analysis Batch: 407335

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Toluene-d8 (Surr)	106		80 - 120
4-Bromofluorobenzene (Surr)	103		80 - 120

Lab Sample ID: LCS 310-407335/9

Matrix: Water

Analysis Batch: 407335

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
TPH-GRO (C6-C10)	1000	1055		ug/L		106	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	89		80 - 128
Toluene-d8 (Surr)	106		80 - 120
4-Bromofluorobenzene (Surr)	102		80 - 120

Lab Sample ID: MB 310-407432/1-A

Matrix: Solid

Analysis Batch: 407473

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 407432

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
1,1,1-Trichloroethane	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
1,1,2,2-Tetrachloroethane	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
1,1,2-Trichloroethane	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
1,1-Dichloroethane	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
1,1-Dichloroethene	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
1,1-Dichloropropene	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
1,2,3-Trichlorobenzene	<19.2		19.2		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
1,2,3-Trichloropropane	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
1,2,4-Trichlorobenzene	<19.2		19.2		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
1,2,4-Trimethylbenzene	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
1,2-Dibromo-3-chloropropane	<19.2		19.2		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
1,2-Dibromoethane (EDB)	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
1,2-Dichlorobenzene	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
1,2-Dichloroethane	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
1,2-Dichloropropane	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
1,3,5-Trimethylbenzene	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
1,3-Dichlorobenzene	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
1,3-Dichloropropane	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
1,4-Dichlorobenzene	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
2,2-Dichloropropane	<38.4		38.4		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
2-Butanone (MEK)	<38.4		38.4		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
2-Chlorotoluene	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
4-Chlorotoluene	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
Acetone	<96.0		96.0		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
Benzene	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
Bromobenzene	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
Bromochloromethane	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1

Eurofins Cedar Falls

QC Sample Results

Client: Tetra Tech EM Inc.

Job ID: 310-269966-1

Project/Site: Cameron City Park Site, Cameron MO

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

Lab Sample ID: MB 310-407432/1-A

Matrix: Solid

Analysis Batch: 407473

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 407432

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
Bromoform	<19.2		19.2		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
Bromomethane	<38.4		38.4		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
Carbon disulfide	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
Carbon tetrachloride	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
Chlorobenzene	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
Chlorodibromomethane	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
Chloroethane	<38.4		38.4		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
Chloroform	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
Chloromethane	<38.4		38.4		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
cis-1,2-Dichloroethene	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
cis-1,3-Dichloropropene	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
Dibromomethane	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
Dichlorodifluoromethane	<28.8		28.8		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
Ethylbenzene	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
Hexachlorobutadiene	<48.0		48.0		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
Hexane	<48.0		48.0		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
Isopropylbenzene	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
Methyl tert-butyl ether	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
Methylene chloride	<96.0		96.0		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
Naphthalene	<48.0		48.0		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
n-Butylbenzene	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
n-Propylbenzene	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
p-Isopropyltoluene	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
sec-Butylbenzene	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
Styrene	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
tert-Butylbenzene	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
Tetrachloroethene	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
Toluene	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
trans-1,2-Dichloroethene	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
trans-1,3-Dichloropropene	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
Trichloroethene	<9.60		9.60		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
Trichlorofluoromethane	<38.4		38.4		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
Vinyl chloride	<19.2		19.2		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
Xylenes, Total	<19.2		19.2		ug/Kg		11/30/23 09:01	11/30/23 14:45	1
TPH-GRO (C6-C10)	<3840		3840		ug/Kg		11/30/23 09:01	11/30/23 14:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	103		80 - 131	11/30/23 09:01	11/30/23 14:45	1
Toluene-d8 (Surr)	93		80 - 120	11/30/23 09:01	11/30/23 14:45	1
4-Bromofluorobenzene (Surr)	97		78 - 120	11/30/23 09:01	11/30/23 14:45	1

Lab Sample ID: LCS 310-407432/2-A

Matrix: Solid

Analysis Batch: 407473

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 407432

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	93.8	95.42		ug/Kg		102	75 - 129

Eurofins Cedar Falls

QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

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

Lab Sample ID: LCS 310-407432/2-A

Matrix: Solid

Analysis Batch: 407473

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 407432

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	93.8	100.9		ug/Kg		108	76 - 131
1,1,2,2-Tetrachloroethane	93.8	99.27		ug/Kg		106	76 - 136
1,1,2-Trichloroethane	93.8	95.79		ug/Kg		102	74 - 134
1,1-Dichloroethane	93.8	98.53		ug/Kg		105	73 - 138
1,1-Dichloroethene	93.8	108.6		ug/Kg		116	57 - 150
1,1-Dichloropropene	93.8	99.67		ug/Kg		106	73 - 134
1,2,3-Trichlorobenzene	93.8	81.85		ug/Kg		87	50 - 150
1,2,3-Trichloropropane	93.8	99.16		ug/Kg		106	77 - 131
1,2,4-Trichlorobenzene	93.8	77.52		ug/Kg		83	51 - 128
1,2,4-Trimethylbenzene	93.8	84.05		ug/Kg		90	71 - 123
1,2-Dibromo-3-chloropropane	93.8	96.16		ug/Kg		103	50 - 150
1,2-Dibromoethane (EDB)	93.8	94.67		ug/Kg		101	78 - 133
1,2-Dichlorobenzene	93.8	84.96		ug/Kg		91	72 - 122
1,2-Dichloroethane	93.8	97.21		ug/Kg		104	72 - 136
1,2-Dichloropropane	93.8	103.6		ug/Kg		110	73 - 139
1,3,5-Trimethylbenzene	93.8	84.50		ug/Kg		90	70 - 121
1,3-Dichlorobenzene	93.8	81.48		ug/Kg		87	70 - 121
1,3-Dichloropropane	93.8	103.6		ug/Kg		110	73 - 143
1,4-Dichlorobenzene	93.8	81.26		ug/Kg		87	68 - 121
2,2-Dichloropropane	93.8	98.35		ug/Kg		105	50 - 150
2-Butanone (MEK)	188	194.8		ug/Kg		104	50 - 150
2-Chlorotoluene	93.8	87.94		ug/Kg		94	71 - 120
4-Chlorotoluene	93.8	85.71		ug/Kg		91	65 - 121
Acetone	188	227.1		ug/Kg		121	50 - 150
Benzene	93.8	100.8		ug/Kg		107	75 - 134
Bromobenzene	93.8	89.57		ug/Kg		95	74 - 121
Bromochloromethane	93.8	99.79		ug/Kg		106	77 - 136
Bromodichloromethane	93.8	92.41		ug/Kg		99	73 - 125
Bromoform	93.8	98.12		ug/Kg		105	76 - 130
Carbon disulfide	93.8	101.1		ug/Kg		108	40 - 150
Carbon tetrachloride	93.8	99.86		ug/Kg		106	74 - 131
Chlorobenzene	93.8	90.17		ug/Kg		96	72 - 120
Chlorodibromomethane	93.8	96.03		ug/Kg		102	76 - 128
Chloroform	93.8	99.15		ug/Kg		106	70 - 131
cis-1,2-Dichloroethene	93.8	100.1		ug/Kg		107	76 - 133
cis-1,3-Dichloropropene	93.8	93.16		ug/Kg		99	78 - 132
Dibromomethane	93.8	103.5		ug/Kg		110	74 - 138
Ethylbenzene	93.8	90.47		ug/Kg		96	75 - 122
Hexachlorobutadiene	93.8	80.91		ug/Kg		86	50 - 150
Hexane	93.8	94.72		ug/Kg		101	38 - 150
Isopropylbenzene	93.8	90.84		ug/Kg		97	74 - 121
Methyl tert-butyl ether	93.8	105.8		ug/Kg		113	72 - 140
Methylene chloride	93.8	113.5	J	ug/Kg		121	50 - 150
Naphthalene	93.8	88.27		ug/Kg		94	50 - 150
n-Butylbenzene	93.8	79.42		ug/Kg		85	62 - 126
n-Propylbenzene	93.8	89.85		ug/Kg		96	71 - 122
p-Isopropyltoluene	93.8	84.06		ug/Kg		90	68 - 122
sec-Butylbenzene	93.8	84.75		ug/Kg		90	74 - 122
Styrene	93.8	90.90		ug/Kg		97	74 - 122

Eurofins Cedar Falls

QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

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

Lab Sample ID: LCS 310-407432/2-A

Matrix: Solid

Analysis Batch: 407473

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 407432

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
tert-Butylbenzene	93.8	87.44		ug/Kg		93	76 - 125
Tetrachloroethene	93.8	87.75		ug/Kg		94	70 - 120
Toluene	93.8	91.82		ug/Kg		98	76 - 120
trans-1,2-Dichloroethene	93.8	107.4		ug/Kg		114	69 - 139
trans-1,3-Dichloropropene	93.8	94.63		ug/Kg		101	75 - 134
Trichloroethene	93.8	98.00		ug/Kg		104	72 - 130
Xylenes, Total	188	181.1		ug/Kg		97	69 - 126

Surrogate	%Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	105		80 - 131
Toluene-d8 (Surr)	96		80 - 120
4-Bromofluorobenzene (Surr)	101		78 - 120

Lab Sample ID: LCS 310-407432/3-A

Matrix: Solid

Analysis Batch: 407473

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 407432

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
TPH-GRO (C6-C10)	2170	<4330		ug/Kg		100	70 - 130

Surrogate	%Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	101		80 - 131
Toluene-d8 (Surr)	97		80 - 120
4-Bromofluorobenzene (Surr)	101		78 - 120

Lab Sample ID: MB 310-407445/6

Matrix: Water

Analysis Batch: 407445

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00		ug/L			11/30/23 11:11	1
1,1,1-Trichloroethane	<1.00		1.00		ug/L			11/30/23 11:11	1
1,1,2,2-Tetrachloroethane	<1.00		1.00		ug/L			11/30/23 11:11	1
1,1,2-Trichloroethane	<1.00		1.00		ug/L			11/30/23 11:11	1
1,1-Dichloroethane	<1.00		1.00		ug/L			11/30/23 11:11	1
1,1-Dichloroethene	<2.00		2.00		ug/L			11/30/23 11:11	1
1,1-Dichloropropene	<1.00		1.00		ug/L			11/30/23 11:11	1
1,2,3-Trichlorobenzene	<5.00		5.00		ug/L			11/30/23 11:11	1
1,2,3-Trichloropropane	<1.00		1.00		ug/L			11/30/23 11:11	1
1,2,4-Trichlorobenzene	<5.00		5.00		ug/L			11/30/23 11:11	1
1,2,4-Trimethylbenzene	<1.00		1.00		ug/L			11/30/23 11:11	1
1,2-Dibromo-3-chloropropane	<5.00		5.00		ug/L			11/30/23 11:11	1
1,2-Dibromoethane (EDB)	<1.00		1.00		ug/L			11/30/23 11:11	1
1,2-Dichlorobenzene	<1.00		1.00		ug/L			11/30/23 11:11	1
1,2-Dichloroethane	<1.00		1.00		ug/L			11/30/23 11:11	1
1,2-Dichloropropane	<1.00		1.00		ug/L			11/30/23 11:11	1
1,3,5-Trimethylbenzene	<1.00		1.00		ug/L			11/30/23 11:11	1
1,3-Dichlorobenzene	<1.00		1.00		ug/L			11/30/23 11:11	1

Eurofins Cedar Falls

QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

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

Lab Sample ID: MB 310-407445/6

Matrix: Water

Analysis Batch: 407445

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	<1.00		1.00		ug/L			11/30/23 11:11	1
1,4-Dichlorobenzene	<1.00		1.00		ug/L			11/30/23 11:11	1
2,2-Dichloropropane	<4.00		4.00		ug/L			11/30/23 11:11	1
2-Butanone (MEK)	<10.0		10.0		ug/L			11/30/23 11:11	1
2-Chlorotoluene	<1.00		1.00		ug/L			11/30/23 11:11	1
4-Chlorotoluene	<1.00		1.00		ug/L			11/30/23 11:11	1
Acetone	<10.0		10.0		ug/L			11/30/23 11:11	1
Benzene	<0.500		0.500		ug/L			11/30/23 11:11	1
Bromobenzene	<1.00		1.00		ug/L			11/30/23 11:11	1
Bromochloromethane	<5.00		5.00		ug/L			11/30/23 11:11	1
Bromodichloromethane	<1.00		1.00		ug/L			11/30/23 11:11	1
Bromoform	<5.00		5.00		ug/L			11/30/23 11:11	1
Bromomethane	<4.00		4.00		ug/L			11/30/23 11:11	1
Carbon disulfide	<1.00		1.00		ug/L			11/30/23 11:11	1
Carbon tetrachloride	<2.00		2.00		ug/L			11/30/23 11:11	1
Chlorobenzene	<1.00		1.00		ug/L			11/30/23 11:11	1
Chlorodibromomethane	<5.00		5.00		ug/L			11/30/23 11:11	1
Chloroethane	<4.00		4.00		ug/L			11/30/23 11:11	1
Chloroform	<3.00		3.00		ug/L			11/30/23 11:11	1
Chloromethane	<3.00		3.00		ug/L			11/30/23 11:11	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			11/30/23 11:11	1
cis-1,3-Dichloropropene	<5.00		5.00		ug/L			11/30/23 11:11	1
Dibromomethane	<1.00		1.00		ug/L			11/30/23 11:11	1
Dichlorodifluoromethane	<3.00		3.00		ug/L			11/30/23 11:11	1
Ethylbenzene	<1.00		1.00		ug/L			11/30/23 11:11	1
Hexachlorobutadiene	<5.00		5.00		ug/L			11/30/23 11:11	1
Hexane	<1.00		1.00		ug/L			11/30/23 11:11	1
Isopropylbenzene	<1.00		1.00		ug/L			11/30/23 11:11	1
Methyl tert-butyl ether	<1.00		1.00		ug/L			11/30/23 11:11	1
Methylene chloride	<5.00		5.00		ug/L			11/30/23 11:11	1
Naphthalene	<5.00		5.00		ug/L			11/30/23 11:11	1
n-Butylbenzene	<1.00		1.00		ug/L			11/30/23 11:11	1
n-Propylbenzene	<1.00		1.00		ug/L			11/30/23 11:11	1
p-Isopropyltoluene	<1.00		1.00		ug/L			11/30/23 11:11	1
sec-Butylbenzene	<1.00		1.00		ug/L			11/30/23 11:11	1
Styrene	<1.00		1.00		ug/L			11/30/23 11:11	1
tert-Butylbenzene	<1.00		1.00		ug/L			11/30/23 11:11	1
Tetrachloroethene	<1.00		1.00		ug/L			11/30/23 11:11	1
Toluene	<1.00		1.00		ug/L			11/30/23 11:11	1
trans-1,2-Dichloroethene	<1.00		1.00		ug/L			11/30/23 11:11	1
trans-1,3-Dichloropropene	<5.00		5.00		ug/L			11/30/23 11:11	1
Trichloroethene	<1.00		1.00		ug/L			11/30/23 11:11	1
Trichlorofluoromethane	<4.00		4.00		ug/L			11/30/23 11:11	1
Vinyl chloride	<1.00		1.00		ug/L			11/30/23 11:11	1
Xylenes, Total	<3.00		3.00		ug/L			11/30/23 11:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	107		80 - 128		11/30/23 11:11	1

Eurofins Cedar Falls

QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

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

Lab Sample ID: MB 310-407445/6

Matrix: Water

Analysis Batch: 407445

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		80 - 120		11/30/23 11:11	1
4-Bromofluorobenzene (Surr)	106		80 - 120		11/30/23 11:11	1

Lab Sample ID: LCS 310-407445/7

Matrix: Water

Analysis Batch: 407445

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	17.95		ug/L		90	68 - 123
1,1,1-Trichloroethane	20.0	18.07		ug/L		90	71 - 128
1,1,2,2-Tetrachloroethane	20.0	15.83		ug/L		79	64 - 124
1,1,2-Trichloroethane	20.0	16.36		ug/L		82	70 - 124
1,1-Dichloroethane	20.0	15.87		ug/L		79	71 - 123
1,1-Dichloroethene	20.0	17.20		ug/L		86	61 - 129
1,1-Dichloropropene	20.0	18.00		ug/L		90	70 - 131
1,2,3-Trichlorobenzene	20.0	18.82		ug/L		94	50 - 150
1,2,3-Trichloropropane	20.0	15.65		ug/L		78	64 - 125
1,2,4-Trichlorobenzene	20.0	18.82		ug/L		94	61 - 124
1,2,4-Trimethylbenzene	20.0	17.52		ug/L		88	65 - 125
1,2-Dibromo-3-chloropropane	20.0	16.38		ug/L		82	50 - 150
1,2-Dibromoethane (EDB)	20.0	18.02		ug/L		90	73 - 125
1,2-Dichlorobenzene	20.0	16.73		ug/L		84	68 - 120
1,2-Dichloroethane	20.0	16.19		ug/L		81	70 - 124
1,2-Dichloropropane	20.0	16.28		ug/L		81	73 - 121
1,3,5-Trimethylbenzene	20.0	17.40		ug/L		87	65 - 124
1,3-Dichlorobenzene	20.0	18.07		ug/L		90	67 - 123
1,3-Dichloropropane	20.0	16.56		ug/L		83	72 - 124
1,4-Dichlorobenzene	20.0	17.14		ug/L		86	67 - 120
2,2-Dichloropropane	20.0	19.69		ug/L		98	50 - 150
2-Butanone (MEK)	40.0	30.57		ug/L		76	50 - 150
2-Chlorotoluene	20.0	16.77		ug/L		84	66 - 122
4-Chlorotoluene	20.0	16.84		ug/L		84	65 - 122
Acetone	40.0	30.98		ug/L		77	50 - 150
Benzene	20.0	17.03		ug/L		85	73 - 122
Bromobenzene	20.0	17.52		ug/L		88	67 - 124
Bromochloromethane	20.0	18.85		ug/L		94	68 - 132
Bromodichloromethane	20.0	17.28		ug/L		86	72 - 121
Bromoform	20.0	17.32		ug/L		87	55 - 129
Carbon disulfide	20.0	16.19		ug/L		81	58 - 131
Carbon tetrachloride	20.0	18.43		ug/L		92	67 - 132
Chlorobenzene	20.0	16.98		ug/L		85	69 - 121
Chlorodibromomethane	20.0	17.70		ug/L		89	69 - 122
Chloroform	20.0	16.38		ug/L		82	72 - 120
cis-1,2-Dichloroethene	20.0	17.82		ug/L		89	74 - 120
cis-1,3-Dichloropropene	20.0	18.16		ug/L		91	71 - 126
Dibromomethane	20.0	17.52		ug/L		88	72 - 123
Ethylbenzene	20.0	17.21		ug/L		86	69 - 122
Hexachlorobutadiene	20.0	19.57		ug/L		98	49 - 150

Eurofins Cedar Falls

QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

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

Lab Sample ID: LCS 310-407445/7

Matrix: Water

Analysis Batch: 407445

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexane	20.0	16.37		ug/L		82	35 - 150
Isopropylbenzene	20.0	18.04		ug/L		90	66 - 126
Methyl tert-butyl ether	20.0	17.42		ug/L		87	68 - 127
Methylene chloride	20.0	16.58		ug/L		83	50 - 150
Naphthalene	20.0	17.52		ug/L		88	50 - 150
n-Butylbenzene	20.0	17.32		ug/L		87	54 - 138
n-Propylbenzene	20.0	17.64		ug/L		88	65 - 127
p-Isopropyltoluene	20.0	17.43		ug/L		87	61 - 128
sec-Butylbenzene	20.0	18.05		ug/L		90	62 - 132
Styrene	20.0	18.50		ug/L		93	67 - 125
tert-Butylbenzene	20.0	18.19		ug/L		91	64 - 127
Tetrachloroethene	20.0	20.43		ug/L		102	69 - 131
Toluene	20.0	17.42		ug/L		87	72 - 121
trans-1,2-Dichloroethene	20.0	17.71		ug/L		89	68 - 125
trans-1,3-Dichloropropene	20.0	18.00		ug/L		90	68 - 124
Trichloroethene	20.0	18.10		ug/L		91	73 - 126
Xylenes, Total	40.0	35.85		ug/L		90	68 - 124

Surrogate	%Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	100		80 - 128
Toluene-d8 (Surr)	98		80 - 120
4-Bromofluorobenzene (Surr)	104		80 - 120

Lab Sample ID: LCS 310-407445/8

Matrix: Water

Analysis Batch: 407445

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	13.54		ug/L		68	24 - 150
Chloroethane	20.0	16.85		ug/L		84	51 - 137
Chloromethane	20.0	14.31		ug/L		72	37 - 150
Dichlorodifluoromethane	20.0	17.55		ug/L		88	37 - 150
Trichlorofluoromethane	20.0	19.14		ug/L		96	56 - 144
Vinyl chloride	20.0	15.80		ug/L		79	57 - 136

Surrogate	%Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	108		80 - 128
Toluene-d8 (Surr)	93		80 - 120
4-Bromofluorobenzene (Surr)	106		80 - 120

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

Lab Sample ID: MB 310-406676/1-A

Matrix: Water

Analysis Batch: 407605

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 406676

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1

Eurofins Cedar Falls

QC Sample Results

Client: Tetra Tech EM Inc.

Job ID: 310-269966-1

Project/Site: Cameron City Park Site, Cameron MO

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

Lab Sample ID: MB 310-406676/1-A

Matrix: Water

Analysis Batch: 407605

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 406676

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
1,3-Dichlorobenzene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
1,4-Dichlorobenzene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
2,4,5-Trichlorophenol	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
2,4,6-Trichlorophenol	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
2,4-Dichlorophenol	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
2,4-Dimethylphenol	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
2,4-Dinitrophenol	<20.0		20.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
2,4-Dinitrotoluene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
2,6-Dinitrotoluene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
2-Chloronaphthalene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
2-Chlorophenol	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
2-Methylnaphthalene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
2-Methylphenol	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
2-Nitroaniline	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
2-Nitrophenol	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
3,3'-Dichlorobenzidine	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
3-Nitroaniline	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
4,6-Dinitro-2-methylphenol	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
4-Bromophenyl phenyl ether	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
4-Chloro-3-methylphenol	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
4-Chloroaniline	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
4-Chlorophenyl phenyl ether	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
4-Methylphenol (and/or 3-Methylphenol)	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
4-Nitroaniline	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
4-Nitrophenol	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
Acenaphthene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
Acenaphthylene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
Anthracene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
Benzidine	<20.0		20.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
Benzo(a)anthracene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
Benzo(a)pyrene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
Benzo(b)fluoranthene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
Benzo(g,h,i)perylene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
Benzo(k)fluoranthene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
Benzoic acid	<100		100		ug/L		11/21/23 05:22	12/01/23 17:57	1
Benzyl alcohol	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
Bis(2-chloroethoxy)methane	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
Bis(2-chloroethyl)ether	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
bis(2-chloroisopropyl) ether	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
Bis(2-ethylhexyl) phthalate	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
Butyl benzyl phthalate	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
Carbazole	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
Chrysene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
Dibenzo(a,h)anthracene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
Dibenzofuran	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
Diethyl phthalate	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
Dimethyl phthalate	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1

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QC Sample Results

Client: Tetra Tech EM Inc.

Job ID: 310-269966-1

Project/Site: Cameron City Park Site, Cameron MO

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

Lab Sample ID: MB 310-406676/1-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 407605

Prep Batch: 406676

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
Di-n-octyl phthalate	<20.0		20.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
Fluoranthene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
Fluorene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
Hexachlorobenzene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
Hexachlorobutadiene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
Hexachlorocyclopentadiene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
Hexachloroethane	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
Indeno(1,2,3-cd)pyrene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
Isophorone	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
Naphthalene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
Nitrobenzene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
N-Nitrosodimethylamine	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
N-Nitrosodi-n-propylamine	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
N-Nitrosodiphenylamine	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
Pentachlorophenol	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
Phenanthrene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
Phenol	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
Pyrene	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
Pyridine	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
Total Cresols	<10.0		10.0		ug/L		11/21/23 05:22	12/01/23 17:57	1
TPH-DRO (C10-C21)	<500		500		ug/L		11/21/23 05:22	12/01/23 17:57	1
TPH-ORO (C21-C35)	<500		500		ug/L		11/21/23 05:22	12/01/23 17:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	84		25 - 110	11/21/23 05:22	12/01/23 17:57	1
Phenol-d5 (Surr)	69		21 - 110	11/21/23 05:22	12/01/23 17:57	1
Nitrobenzene-d5 (Surr)	101		45 - 129	11/21/23 05:22	12/01/23 17:57	1
2-Fluorobiphenyl (Surr)	85		39 - 118	11/21/23 05:22	12/01/23 17:57	1
2,4,6-Tribromophenol (Surr)	110		27 - 136	11/21/23 05:22	12/01/23 17:57	1
Terphenyl-d14 (Surr)	108		12 - 144	11/21/23 05:22	12/01/23 17:57	1

Lab Sample ID: LCS 310-406676/2-A

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 407605

Prep Batch: 406676

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	100	82.21		ug/L		82	33 - 110
1,2-Dichlorobenzene	100	78.61		ug/L		79	33 - 110
1,3-Dichlorobenzene	100	74.68		ug/L		75	31 - 110
1,4-Dichlorobenzene	100	74.23		ug/L		74	32 - 110
2,4,5-Trichlorophenol	100	122.7		ug/L		123	35 - 133
2,4,6-Trichlorophenol	100	112.9		ug/L		113	28 - 139
2,4-Dichlorophenol	100	116.1		ug/L		116	41 - 124
2,4-Dimethylphenol	100	97.67		ug/L		98	31 - 142
2,4-Dinitrophenol	200	220.8		ug/L		110	10 - 138
2,4-Dinitrotoluene	100	100.4		ug/L		100	47 - 137
2,6-Dinitrotoluene	100	113.4		ug/L		113	51 - 130

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QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

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

Lab Sample ID: LCS 310-406676/2-A

Matrix: Water

Analysis Batch: 407605

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 406676

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chloronaphthalene	100	92.44		ug/L		92	37 - 110
2-Chlorophenol	100	109.0		ug/L		109	44 - 117
2-Methylnaphthalene	100	91.41		ug/L		91	33 - 110
2-Methylphenol	100	108.6		ug/L		109	47 - 118
2-Nitroaniline	100	101.4		ug/L		101	50 - 135
2-Nitrophenol	100	124.9		ug/L		125	41 - 129
3-Nitroaniline	100	28.93	*-	ug/L		29	42 - 139
4,6-Dinitro-2-methylphenol	200	244.3		ug/L		122	22 - 143
4-Bromophenyl phenyl ether	100	116.2		ug/L		116	45 - 119
4-Chloro-3-methylphenol	100	117.0		ug/L		117	49 - 130
4-Chloroaniline	100	8.950	J *-	ug/L		9	21 - 139
4-Chlorophenyl phenyl ether	100	99.96		ug/L		100	44 - 116
4-Methylphenol (and/or 3-Methylphenol)	100	103.8		ug/L		104	46 - 117
4-Nitroaniline	100	64.45		ug/L		64	31 - 145
4-Nitrophenol	200	147.9		ug/L		74	18 - 110
Acenaphthene	100	95.20		ug/L		95	43 - 110
Acenaphthylene	100	97.14		ug/L		97	40 - 110
Anthracene	100	107.3		ug/L		107	51 - 120
Benzo(a)anthracene	100	108.5		ug/L		109	51 - 123
Benzo(a)pyrene	100	113.1		ug/L		113	48 - 125
Benzo(b)fluoranthene	100	117.0		ug/L		117	49 - 129
Benzo(g,h,i)perylene	100	105.5		ug/L		105	43 - 139
Benzo(k)fluoranthene	100	103.2		ug/L		103	47 - 130
Benzyl alcohol	100	91.38		ug/L		91	39 - 128
Bis(2-chloroethoxy)methane	100	102.7		ug/L		103	48 - 121
Bis(2-chloroethyl)ether	100	98.17		ug/L		98	43 - 123
bis(2-chloroisopropyl) ether	100	93.83		ug/L		94	34 - 123
Bis(2-ethylhexyl) phthalate	100	101.4		ug/L		101	43 - 143
Butyl benzyl phthalate	100	106.0		ug/L		106	46 - 135
Carbazole	100	105.2		ug/L		105	51 - 126
Chrysene	100	109.2		ug/L		109	51 - 125
Dibenzo(a,h)anthracene	100	118.6		ug/L		119	38 - 149
Dibenzofuran	100	95.77		ug/L		96	45 - 112
Diethyl phthalate	100	100.1		ug/L		100	43 - 135
Dimethyl phthalate	100	103.5		ug/L		104	43 - 129
Di-n-butyl phthalate	100	111.5		ug/L		112	50 - 133
Di-n-octyl phthalate	100	97.44		ug/L		97	34 - 150
Fluoranthene	100	103.7		ug/L		104	47 - 128
Fluorene	100	98.05		ug/L		98	45 - 119
Hexachlorobenzene	100	112.6		ug/L		113	48 - 119
Hexachlorobutadiene	100	81.93		ug/L		82	32 - 110
Hexachlorocyclopentadiene	100	59.65		ug/L		60	10 - 110
Hexachloroethane	100	70.43		ug/L		70	31 - 110
Indeno(1,2,3-cd)pyrene	100	130.1		ug/L		130	37 - 150
Isophorone	100	106.4		ug/L		106	50 - 125
Naphthalene	100	89.88		ug/L		90	38 - 110
Nitrobenzene	100	104.6		ug/L		105	47 - 116
N-Nitrosodimethylamine	100	85.42		ug/L		85	37 - 110

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QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

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

Lab Sample ID: LCS 310-406676/2-A

Matrix: Water

Analysis Batch: 407605

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 406676

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
N-Nitrosodi-n-propylamine	100	107.0		ug/L		107	45 - 130
N-Nitrosodiphenylamine	100	105.5		ug/L		106	49 - 121
Pentachlorophenol	200	232.5		ug/L		116	26 - 133
Phenanthrene	100	105.5		ug/L		105	51 - 117
Phenol	100	70.91		ug/L		71	29 - 110
Pyrene	100	112.3		ug/L		112	48 - 127
Pyridine	200	2.489	J *	ug/L		1	10 - 110

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol (Surr)	85		25 - 110
Phenol-d5 (Surr)	68		21 - 110
Nitrobenzene-d5 (Surr)	102		45 - 129
2-Fluorobiphenyl (Surr)	85		39 - 118
2,4,6-Tribromophenol (Surr)	113		27 - 136
Terphenyl-d14 (Surr)	110		12 - 144

Lab Sample ID: LCS 310-406676/4-A

Matrix: Water

Analysis Batch: 407605

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 406676

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
TPH-DRO (C10-C21)	2000	2208		ug/L		110	20 - 120
TPH-ORO (C21-C35)	2000	<400	*	ug/L		17	20 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5 (Surr)	87		45 - 129
2-Fluorobiphenyl (Surr)	74		39 - 118
Terphenyl-d14 (Surr)	83		12 - 144

Lab Sample ID: LCSD 310-406676/3-A

Matrix: Water

Analysis Batch: 407605

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 406676

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	100	67.56		ug/L		68	33 - 110	20	35
1,2-Dichlorobenzene	100	60.60		ug/L		61	33 - 110	26	35
1,3-Dichlorobenzene	100	58.33		ug/L		58	31 - 110	25	35
1,4-Dichlorobenzene	100	58.62		ug/L		59	32 - 110	23	35
2,4,5-Trichlorophenol	100	100.8		ug/L		101	35 - 133	20	35
2,4,6-Trichlorophenol	100	95.49		ug/L		95	28 - 139	17	35
2,4-Dichlorophenol	100	92.93		ug/L		93	41 - 124	22	35
2,4-Dimethylphenol	100	79.93		ug/L		80	31 - 142	20	35
2,4-Dinitrophenol	200	202.7		ug/L		101	10 - 138	9	35
2,4-Dinitrotoluene	100	84.94		ug/L		85	47 - 137	17	35
2,6-Dinitrotoluene	100	95.61		ug/L		96	51 - 130	17	35
2-Chloronaphthalene	100	81.69		ug/L		82	37 - 110	12	35
2-Chlorophenol	100	83.25		ug/L		83	44 - 117	27	35
2-Methylnaphthalene	100	75.72		ug/L		76	33 - 110	19	35

Eurofins Cedar Falls

QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

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

Lab Sample ID: LCSD 310-406676/3-A

Matrix: Water

Analysis Batch: 407605

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 406676

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
2-Methylphenol	100	82.63		ug/L		83	47 - 118		27	35
2-Nitroaniline	100	79.86		ug/L		80	50 - 135		24	35
2-Nitrophenol	100	97.76		ug/L		98	41 - 129		24	35
3-Nitroaniline	100	29.07	*-	ug/L		29	42 - 139		0	35
4,6-Dinitro-2-methylphenol	200	210.9		ug/L		105	22 - 143		15	35
4-Bromophenyl phenyl ether	100	95.72		ug/L		96	45 - 119		19	35
4-Chloro-3-methylphenol	100	93.53		ug/L		94	49 - 130		22	35
4-Chloroaniline	100	5.871	J *- *1	ug/L		6	21 - 139		42	35
4-Chlorophenyl phenyl ether	100	84.90		ug/L		85	44 - 116		16	35
4-Methylphenol (and/or 3-Methylphenol)	100	79.07		ug/L		79	46 - 117		27	35
4-Nitroaniline	100	51.66		ug/L		52	31 - 145		22	35
4-Nitrophenol	200	127.0		ug/L		63	18 - 110		15	35
Acenaphthene	100	78.48		ug/L		78	43 - 110		19	35
Acenaphthylene	100	80.02		ug/L		80	40 - 110		19	35
Anthracene	100	92.42		ug/L		92	51 - 120		15	35
Benzo(a)anthracene	100	90.24		ug/L		90	51 - 123		18	35
Benzo(a)pyrene	100	92.02		ug/L		92	48 - 125		21	35
Benzo(b)fluoranthene	100	94.20		ug/L		94	49 - 129		22	35
Benzo(g,h,i)perylene	100	84.60		ug/L		85	43 - 139		22	35
Benzo(k)fluoranthene	100	86.31		ug/L		86	47 - 130		18	35
Benzyl alcohol	100	73.42		ug/L		73	39 - 128		22	35
Bis(2-chloroethoxy)methane	100	81.51		ug/L		82	48 - 121		23	35
Bis(2-chloroethyl)ether	100	74.17		ug/L		74	43 - 123		28	35
bis(2-chloroisopropyl) ether	100	70.73		ug/L		71	34 - 123		28	35
Bis(2-ethylhexyl) phthalate	100	83.87		ug/L		84	43 - 143		19	35
Butyl benzyl phthalate	100	87.68		ug/L		88	46 - 135		19	35
Carbazole	100	88.74		ug/L		89	51 - 126		17	35
Chrysene	100	91.67		ug/L		92	51 - 125		17	35
Dibenzo(a,h)anthracene	100	96.43		ug/L		96	38 - 149		21	35
Dibenzofuran	100	80.01		ug/L		80	45 - 112		18	35
Diethyl phthalate	100	85.23		ug/L		85	43 - 135		16	35
Dimethyl phthalate	100	85.97		ug/L		86	43 - 129		19	35
Di-n-butyl phthalate	100	95.25		ug/L		95	50 - 133		16	35
Di-n-octyl phthalate	100	79.92		ug/L		80	34 - 150		20	35
Fluoranthene	100	89.76		ug/L		90	47 - 128		14	35
Fluorene	100	82.59		ug/L		83	45 - 119		17	35
Hexachlorobenzene	100	93.50		ug/L		94	48 - 119		19	35
Hexachlorobutadiene	100	69.17		ug/L		69	32 - 110		17	35
Hexachlorocyclopentadiene	100	55.84		ug/L		56	10 - 110		7	35
Hexachloroethane	100	57.19		ug/L		57	31 - 110		21	35
Indeno(1,2,3-cd)pyrene	100	102.3		ug/L		102	37 - 150		24	35
Isophorone	100	85.43		ug/L		85	50 - 125		22	35
Naphthalene	100	72.00		ug/L		72	38 - 110		22	35
Nitrobenzene	100	81.57		ug/L		82	47 - 116		25	35
N-Nitrosodimethylamine	100	63.21		ug/L		63	37 - 110		30	35
N-Nitrosodi-n-propylamine	100	82.09		ug/L		82	45 - 130		26	35
N-Nitrosodiphenylamine	100	87.77		ug/L		88	49 - 121		18	35
Pentachlorophenol	200	197.8		ug/L		99	26 - 133		16	35

Eurofins Cedar Falls

QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

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

Lab Sample ID: LCSD 310-406676/3-A

Matrix: Water

Analysis Batch: 407605

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 406676

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	100	89.27		ug/L		89	51 - 117	17	35
Phenol	100	54.08		ug/L		54	29 - 110	27	35
Pyrene	100	95.43		ug/L		95	48 - 127	16	35
Pyridine	200	5.411	J *- *1	ug/L		3	10 - 110	74	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorophenol (Surr)	70		25 - 110
Phenol-d5 (Surr)	56		21 - 110
Nitrobenzene-d5 (Surr)	88		45 - 129
2-Fluorobiphenyl (Surr)	77		39 - 118
2,4,6-Tribromophenol (Surr)	105		27 - 136
Terphenyl-d14 (Surr)	100		12 - 144

Lab Sample ID: LCSD 310-406676/5-A

Matrix: Water

Analysis Batch: 407605

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 406676

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TPH-DRO (C10-C21)	2000	2276		ug/L		114	20 - 120	3	35
TPH-ORO (C21-C35)	2000	<400	*-	ug/L		16	20 - 120	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Nitrobenzene-d5 (Surr)	93		45 - 129
2-Fluorobiphenyl (Surr)	78		39 - 118
Terphenyl-d14 (Surr)	80		12 - 144

Lab Sample ID: MB 310-407164/1-A

Matrix: Solid

Analysis Batch: 407426

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 407164

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
1,2-Dichlorobenzene	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
1,3-Dichlorobenzene	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
1,4-Dichlorobenzene	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
2,4,5-Trichlorophenol	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
2,4,6-Trichlorophenol	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
2,4-Dichlorophenol	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
2,4-Dimethylphenol	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
2,4-Dinitrophenol	<394		394		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
2,4-Dinitrotoluene	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
2,6-Dinitrotoluene	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
2-Chloronaphthalene	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
2-Chlorophenol	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
2-Methylnaphthalene	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
2-Methylphenol	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
2-Nitroaniline	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
2-Nitrophenol	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1

Eurofins Cedar Falls

QC Sample Results

Client: Tetra Tech EM Inc.

Job ID: 310-269966-1

Project/Site: Cameron City Park Site, Cameron MO

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

Lab Sample ID: MB 310-407164/1-A

Matrix: Solid

Analysis Batch: 407426

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 407164

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<394		394		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
3-Nitroaniline	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
4,6-Dinitro-2-methylphenol	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
4-Bromophenyl phenyl ether	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
4-Chloro-3-methylphenol	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
4-Chloroaniline	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
4-Chlorophenyl phenyl ether	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
4-Methylphenol (and/or 3-Methylphenol)	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
4-Nitroaniline	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
4-Nitrophenol	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
Acenaphthene	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
Acenaphthylene	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
Anthracene	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
Benzidine	<394		394		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
Benzo(a)anthracene	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
Benzo(a)pyrene	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
Benzo(b)fluoranthene	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
Benzo(g,h,i)perylene	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
Benzo(k)fluoranthene	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
Benzoic acid	<985		985		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
Benzyl alcohol	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
Bis(2-chloroethoxy)methane	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
Bis(2-chloroethyl)ether	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
bis(2-chloroisopropyl) ether	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
Bis(2-ethylhexyl) phthalate	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
Butyl benzyl phthalate	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
Carbazole	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
Chrysene	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
Dibenzo(a,h)anthracene	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
Dibenzofuran	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
Diethyl phthalate	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
Dimethyl phthalate	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
Di-n-butyl phthalate	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
Di-n-octyl phthalate	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
Fluoranthene	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
Fluorene	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
Hexachlorobenzene	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
Hexachlorobutadiene	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
Hexachlorocyclopentadiene	<394		394		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
Hexachloroethane	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
Indeno(1,2,3-cd)pyrene	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
Isophorone	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
Naphthalene	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
Nitrobenzene	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
N-Nitrosodimethylamine	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
N-Nitrosodi-n-propylamine	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
N-Nitrosodiphenylamine	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
Pentachlorophenol	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1

Eurofins Cedar Falls

QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

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

Lab Sample ID: MB 310-407164/1-A

Matrix: Solid

Analysis Batch: 407426

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 407164

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
Phenol	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
Pyrene	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
Pyridine	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
Total Cresols	<197		197		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
TPH-DRO (C10-C21)	<14800		14800		ug/Kg		11/28/23 09:37	11/30/23 13:21	1
TPH-ORO (C21-C35)	<14800		14800		ug/Kg		11/28/23 09:37	11/30/23 13:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	77		18 - 126	11/28/23 09:37	11/30/23 13:21	1
Phenol-d5 (Surr)	79		25 - 119	11/28/23 09:37	11/30/23 13:21	1
Nitrobenzene-d5 (Surr)	79		15 - 131	11/28/23 09:37	11/30/23 13:21	1
2-Fluorobiphenyl (Surr)	69		28 - 116	11/28/23 09:37	11/30/23 13:21	1
2,4,6-Tribromophenol (Surr)	72		10 - 121	11/28/23 09:37	11/30/23 13:21	1
Terphenyl-d14 (Surr)	73		24 - 132	11/28/23 09:37	11/30/23 13:21	1

Lab Sample ID: LCS 310-407164/2-A

Matrix: Solid

Analysis Batch: 407426

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 407164

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
TPH-DRO (C10-C21)	65300	68660		ug/Kg		105	20 - 120
TPH-ORO (C21-C35)	65300	10230	J *	ug/Kg		16	20 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol (Surr)	75		18 - 126
Phenol-d5 (Surr)	76		25 - 119
Nitrobenzene-d5 (Surr)	78		15 - 131
2-Fluorobiphenyl (Surr)	69		28 - 116
2,4,6-Tribromophenol (Surr)	70		10 - 121
Terphenyl-d14 (Surr)	73		24 - 132

Lab Sample ID: LCS 310-407164/3-A

Matrix: Solid

Analysis Batch: 407426

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 407164

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	3230	2254		ug/Kg		70	33 - 110
1,2-Dichlorobenzene	3230	2260		ug/Kg		70	33 - 110
1,3-Dichlorobenzene	3230	2178		ug/Kg		68	26 - 111
1,4-Dichlorobenzene	3230	2157		ug/Kg		67	33 - 110
2,4,5-Trichlorophenol	3230	2409		ug/Kg		75	33 - 110
2,4,6-Trichlorophenol	3230	2480		ug/Kg		77	33 - 110
2,4-Dichlorophenol	3230	2473		ug/Kg		77	34 - 110
2,4-Dimethylphenol	3230	2092		ug/Kg		65	31 - 115
2,4-Dinitrophenol	6450	1285		ug/Kg		20	10 - 110
2,4-Dinitrotoluene	3230	2219		ug/Kg		69	39 - 111
2,6-Dinitrotoluene	3230	2540		ug/Kg		79	39 - 110

Eurofins Cedar Falls

QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

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

Lab Sample ID: LCS 310-407164/3-A

Matrix: Solid

Analysis Batch: 407426

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 407164

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chloronaphthalene	3230	2135		ug/Kg		66	35 - 110
2-Chlorophenol	3230	2286		ug/Kg		71	36 - 110
2-Methylnaphthalene	3230	2337		ug/Kg		72	37 - 110
2-Methylphenol	3230	2430		ug/Kg		75	33 - 110
2-Nitroaniline	3230	2475		ug/Kg		77	36 - 115
2-Nitrophenol	3230	2749		ug/Kg		85	33 - 112
3-Nitroaniline	3230	1963		ug/Kg		61	30 - 110
4,6-Dinitro-2-methylphenol	6450	2546		ug/Kg		39	10 - 110
4-Bromophenyl phenyl ether	3230	2477		ug/Kg		77	41 - 110
4-Chloro-3-methylphenol	3230	2530		ug/Kg		78	38 - 110
4-Chloroaniline	3230	1689		ug/Kg		52	27 - 110
4-Chlorophenyl phenyl ether	3230	2184		ug/Kg		68	41 - 110
4-Methylphenol (and/or 3-Methylphenol)	3230	2350		ug/Kg		73	34 - 110
4-Nitroaniline	3230	2047		ug/Kg		63	15 - 115
4-Nitrophenol	6450	4107		ug/Kg		64	26 - 110
Acenaphthene	3230	2186		ug/Kg		68	40 - 110
Acenaphthylene	3230	2206		ug/Kg		68	37 - 110
Anthracene	3230	2350		ug/Kg		73	43 - 110
Benzo(a)anthracene	3230	2389		ug/Kg		74	42 - 110
Benzo(a)pyrene	3230	2474		ug/Kg		77	38 - 116
Benzo(b)fluoranthene	3230	2347		ug/Kg		73	42 - 114
Benzo(g,h,i)perylene	3230	2318		ug/Kg		72	34 - 116
Benzo(k)fluoranthene	3230	2167		ug/Kg		67	36 - 118
Benzyl alcohol	3230	2174		ug/Kg		67	16 - 118
Bis(2-chloroethoxy)methane	3230	2318		ug/Kg		72	30 - 110
Bis(2-chloroethyl)ether	3230	2302		ug/Kg		71	28 - 115
bis(2-chloroisopropyl) ether	3230	2261		ug/Kg		70	18 - 122
Bis(2-ethylhexyl) phthalate	3230	2314		ug/Kg		72	41 - 125
Butyl benzyl phthalate	3230	2287		ug/Kg		71	42 - 119
Carbazole	3230	2303		ug/Kg		71	39 - 110
Chrysene	3230	2359		ug/Kg		73	38 - 110
Dibenzo(a,h)anthracene	3230	2662		ug/Kg		83	33 - 121
Dibenzofuran	3230	2169		ug/Kg		67	40 - 110
Diethyl phthalate	3230	2048		ug/Kg		63	35 - 110
Dimethyl phthalate	3230	2219		ug/Kg		69	38 - 110
Di-n-butyl phthalate	3230	2403		ug/Kg		74	42 - 112
Di-n-octyl phthalate	3230	2282		ug/Kg		71	34 - 137
Fluoranthene	3230	2289		ug/Kg		71	39 - 110
Fluorene	3230	2109		ug/Kg		65	40 - 110
Hexachlorobenzene	3230	2348		ug/Kg		73	41 - 110
Hexachlorobutadiene	3230	2325		ug/Kg		72	30 - 110
Hexachlorocyclopentadiene	3230	2037		ug/Kg		63	18 - 128
Hexachloroethane	3230	2283		ug/Kg		71	30 - 110
Indeno(1,2,3-cd)pyrene	3230	2790		ug/Kg		86	34 - 120
Isophorone	3230	2345		ug/Kg		73	34 - 113
Naphthalene	3230	2233		ug/Kg		69	33 - 110
Nitrobenzene	3230	2327		ug/Kg		72	29 - 112
N-Nitrosodimethylamine	3230	2244		ug/Kg		70	21 - 119

Eurofins Cedar Falls

QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

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

Lab Sample ID: LCS 310-407164/3-A

Matrix: Solid

Analysis Batch: 407426

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 407164

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
N-Nitrosodi-n-propylamine	3230	2369		ug/Kg		73	36 - 112
N-Nitrosodiphenylamine	3230	2406		ug/Kg		75	37 - 110
Pentachlorophenol	6450	4605		ug/Kg		71	10 - 110
Phenanthrene	3230	2237		ug/Kg		69	42 - 110
Phenol	3230	2223		ug/Kg		69	38 - 110
Pyrene	3230	2353		ug/Kg		73	40 - 113
Pyridine	6450	3363		ug/Kg		52	10 - 110

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol (Surr)	71		18 - 126
Phenol-d5 (Surr)	71		25 - 119
Nitrobenzene-d5 (Surr)	73		15 - 131
2-Fluorobiphenyl (Surr)	63		28 - 116
2,4,6-Tribromophenol (Surr)	72		10 - 121
Terphenyl-d14 (Surr)	69		24 - 132

Lab Sample ID: 310-269966-1 MS

Matrix: Solid

Analysis Batch: 407426

Client Sample ID: SB1 (0-3)

Prep Type: Total/NA

Prep Batch: 407164

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	<231		3820	3030		ug/Kg	✱	79	19 - 110
1,2-Dichlorobenzene	<231		3820	2989		ug/Kg	✱	78	19 - 110
1,3-Dichlorobenzene	<231		3820	2890		ug/Kg	✱	76	10 - 117
1,4-Dichlorobenzene	<231		3820	2928		ug/Kg	✱	77	18 - 110
2,4,5-Trichlorophenol	<231		3820	3407		ug/Kg	✱	89	16 - 110
2,4,6-Trichlorophenol	<231		3820	3355		ug/Kg	✱	88	13 - 110
2,4-Dichlorophenol	<231		3820	3324		ug/Kg	✱	87	18 - 110
2,4-Dimethylphenol	<231		3820	2695		ug/Kg	✱	71	13 - 115
2,4-Dinitrophenol	<463		7640	3660		ug/Kg	✱	48	10 - 110
2,4-Dinitrotoluene	<231		3820	3138		ug/Kg	✱	82	18 - 115
2,6-Dinitrotoluene	<231		3820	3498		ug/Kg	✱	92	21 - 113
2-Chloronaphthalene	<231		3820	2974		ug/Kg	✱	78	22 - 110
2-Chlorophenol	<231		3820	3138		ug/Kg	✱	82	18 - 111
2-Methylnaphthalene	<231		3820	3246		ug/Kg	✱	85	14 - 112
2-Methylphenol	<231		3820	3242		ug/Kg	✱	85	19 - 110
2-Nitroaniline	<231		3820	3362		ug/Kg	✱	88	20 - 118
2-Nitrophenol	<231		3820	3684		ug/Kg	✱	96	10 - 116
3-Nitroaniline	<231		3820	2612		ug/Kg	✱	68	14 - 110
4,6-Dinitro-2-methylphenol	<231		7640	5442		ug/Kg	✱	71	10 - 110
4-Bromophenyl phenyl ether	<231		3820	3372		ug/Kg	✱	88	24 - 110
4-Chloro-3-methylphenol	<231		3820	3329		ug/Kg	✱	87	19 - 112
4-Chloroaniline	<231		3820	2441		ug/Kg	✱	64	10 - 110
4-Chlorophenyl phenyl ether	<231		3820	3140		ug/Kg	✱	82	25 - 110
4-Methylphenol (and/or 3-Methylphenol)	<231		3820	3159		ug/Kg	✱	83	20 - 110
4-Nitroaniline	<231		3820	2731		ug/Kg	✱	72	10 - 115
4-Nitrophenol	<231		7640	6156		ug/Kg	✱	81	10 - 111
Acenaphthene	<231		3820	3076		ug/Kg	✱	81	20 - 111

Eurofins Cedar Falls

QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

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

Lab Sample ID: 310-269966-1 MS

Matrix: Solid

Analysis Batch: 407426

Client Sample ID: SB1 (0-3)

Prep Type: Total/NA

Prep Batch: 407164

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthylene	<231		3820	3127		ug/Kg	✱	82	23 - 110
Anthracene	<231		3820	3192		ug/Kg	✱	84	22 - 110
Benzo(a)anthracene	<231		3820	3310		ug/Kg	✱	87	16 - 117
Benzo(a)pyrene	<231		3820	3309		ug/Kg	✱	87	13 - 118
Benzo(b)fluoranthene	<231		3820	3162		ug/Kg	✱	83	13 - 120
Benzo(g,h,i)perylene	<231		3820	3092		ug/Kg	✱	81	12 - 117
Benzo(k)fluoranthene	<231		3820	2976		ug/Kg	✱	78	16 - 118
Benzyl alcohol	<231		3820	2020		ug/Kg	✱	53	10 - 125
Bis(2-chloroethoxy)methane	<231		3820	3133		ug/Kg	✱	82	18 - 115
Bis(2-chloroethyl)ether	<231		3820	2953		ug/Kg	✱	77	10 - 128
bis(2-chloroisopropyl) ether	<231		3820	2931		ug/Kg	✱	77	10 - 127
Bis(2-ethylhexyl) phthalate	<231		3820	3228		ug/Kg	✱	85	24 - 125
Butyl benzyl phthalate	<231		3820	3207		ug/Kg	✱	84	28 - 119
Carbazole	<231		3820	3069		ug/Kg	✱	80	21 - 110
Chrysene	<231		3820	3339		ug/Kg	✱	87	17 - 116
Dibenzo(a,h)anthracene	<231		3820	3400		ug/Kg	✱	89	12 - 122
Dibenzofuran	<231		3820	3067		ug/Kg	✱	80	23 - 110
Diethyl phthalate	<231		3820	2992		ug/Kg	✱	78	22 - 112
Dimethyl phthalate	<231		3820	3094		ug/Kg	✱	81	20 - 114
Di-n-butyl phthalate	<231		3820	3410		ug/Kg	✱	89	24 - 114
Di-n-octyl phthalate	<231		3820	3055		ug/Kg	✱	80	14 - 142
Fluoranthene	<231		3820	3264		ug/Kg	✱	85	14 - 118
Fluorene	<231		3820	3014		ug/Kg	✱	79	23 - 110
Hexachlorobenzene	<231		3820	3227		ug/Kg	✱	84	22 - 110
Hexachlorobutadiene	<231		3820	3132		ug/Kg	✱	82	17 - 110
Hexachlorocyclopentadiene	<463		3820	1391		ug/Kg	✱	36	10 - 128
Hexachloroethane	<231		3820	2793		ug/Kg	✱	73	10 - 117
Indeno(1,2,3-cd)pyrene	<231		3820	3598		ug/Kg	✱	94	10 - 129
Isophorone	<231		3820	3186		ug/Kg	✱	83	17 - 121
Naphthalene	<231		3820	3061		ug/Kg	✱	80	20 - 110
Nitrobenzene	<231		3820	3057		ug/Kg	✱	80	17 - 112
N-Nitrosodimethylamine	<231		3820	2667		ug/Kg	✱	70	10 - 125
N-Nitrosodi-n-propylamine	<231		3820	3176		ug/Kg	✱	83	18 - 123
N-Nitrosodiphenylamine	<231		3820	3189		ug/Kg	✱	84	16 - 115
Pentachlorophenol	<231		7640	7163		ug/Kg	✱	91	10 - 110
Phenanthrene	<231		3820	3105		ug/Kg	✱	81	17 - 116
Phenol	<231		3820	2986		ug/Kg	✱	78	19 - 112
Pyrene	<231		3820	3305		ug/Kg	✱	87	11 - 123
Pyridine	<231		7640	3641		ug/Kg	✱	48	10 - 110

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorophenol (Surr)	80		18 - 126
Phenol-d5 (Surr)	81		25 - 119
Nitrobenzene-d5 (Surr)	82		15 - 131
2-Fluorobiphenyl (Surr)	77		28 - 116
2,4,6-Tribromophenol (Surr)	89		10 - 121
Terphenyl-d14 (Surr)	83		24 - 132

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QC Sample Results

Client: Tetra Tech EM Inc.

Job ID: 310-269966-1

Project/Site: Cameron City Park Site, Cameron MO

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

Lab Sample ID: 310-269966-1 MSD

Matrix: Solid

Analysis Batch: 407426

Client Sample ID: SB1 (0-3)

Prep Type: Total/NA

Prep Batch: 407164

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	<231		3860	2987		ug/Kg	✱	77	19 - 110	1	40
1,2-Dichlorobenzene	<231		3860	2908		ug/Kg	✱	75	19 - 110	3	40
1,3-Dichlorobenzene	<231		3860	2844		ug/Kg	✱	74	10 - 117	2	40
1,4-Dichlorobenzene	<231		3860	2821		ug/Kg	✱	73	18 - 110	4	40
2,4,5-Trichlorophenol	<231		3860	3263		ug/Kg	✱	85	16 - 110	4	40
2,4,6-Trichlorophenol	<231		3860	3209		ug/Kg	✱	83	13 - 110	4	40
2,4-Dichlorophenol	<231		3860	3259		ug/Kg	✱	85	18 - 110	2	40
2,4-Dimethylphenol	<231		3860	2594		ug/Kg	✱	67	13 - 115	4	40
2,4-Dinitrophenol	<463		7710	3909		ug/Kg	✱	51	10 - 110	7	40
2,4-Dinitrotoluene	<231		3860	3071		ug/Kg	✱	80	18 - 115	2	40
2,6-Dinitrotoluene	<231		3860	3296		ug/Kg	✱	85	21 - 113	6	40
2-Chloronaphthalene	<231		3860	2859		ug/Kg	✱	74	22 - 110	4	40
2-Chlorophenol	<231		3860	2999		ug/Kg	✱	78	18 - 111	5	40
2-Methylnaphthalene	<231		3860	3095		ug/Kg	✱	80	14 - 112	5	40
2-Methylphenol	<231		3860	3589		ug/Kg	✱	93	19 - 110	10	40
2-Nitroaniline	<231		3860	3310		ug/Kg	✱	86	20 - 118	2	40
2-Nitrophenol	<231		3860	3645		ug/Kg	✱	95	10 - 116	1	40
3-Nitroaniline	<231		3860	2745		ug/Kg	✱	71	14 - 110	5	40
4,6-Dinitro-2-methylphenol	<231		7710	5439		ug/Kg	✱	71	10 - 110	0	40
4-Bromophenyl phenyl ether	<231		3860	3200		ug/Kg	✱	83	24 - 110	5	40
4-Chloro-3-methylphenol	<231		3860	3259		ug/Kg	✱	85	19 - 112	2	40
4-Chloroaniline	<231		3860	2327		ug/Kg	✱	60	10 - 110	5	40
4-Chlorophenyl phenyl ether	<231		3860	2916		ug/Kg	✱	76	25 - 110	7	40
4-Methylphenol (and/or 3-Methylphenol)	<231		3860	3129		ug/Kg	✱	81	20 - 110	1	40
4-Nitroaniline	<231		3860	2814		ug/Kg	✱	73	10 - 115	3	40
4-Nitrophenol	<231		7710	6364		ug/Kg	✱	83	10 - 111	3	40
Acenaphthene	<231		3860	2904		ug/Kg	✱	75	20 - 111	6	40
Acenaphthylene	<231		3860	2967		ug/Kg	✱	77	23 - 110	5	40
Anthracene	<231		3860	3102		ug/Kg	✱	80	22 - 110	3	40
Benzo(a)anthracene	<231		3860	3253		ug/Kg	✱	84	16 - 117	2	40
Benzo(a)pyrene	<231		3860	3290		ug/Kg	✱	85	13 - 118	1	40
Benzo(b)fluoranthene	<231		3860	3150		ug/Kg	✱	82	13 - 120	0	40
Benzo(g,h,i)perylene	<231		3860	3121		ug/Kg	✱	81	12 - 117	1	40
Benzo(k)fluoranthene	<231		3860	2916		ug/Kg	✱	76	16 - 118	2	40
Benzyl alcohol	<231		3860	2153		ug/Kg	✱	56	10 - 125	6	40
Bis(2-chloroethoxy)methane	<231		3860	3066		ug/Kg	✱	80	18 - 115	2	40
Bis(2-chloroethyl)ether	<231		3860	2944		ug/Kg	✱	76	10 - 128	0	40
bis(2-chloroisopropyl) ether	<231		3860	2911		ug/Kg	✱	75	10 - 127	1	40
Bis(2-ethylhexyl) phthalate	<231		3860	3183		ug/Kg	✱	83	24 - 125	1	40
Butyl benzyl phthalate	<231		3860	3125		ug/Kg	✱	81	28 - 119	3	40
Carbazole	<231		3860	3025		ug/Kg	✱	78	21 - 110	1	40
Chrysene	<231		3860	3219		ug/Kg	✱	84	17 - 116	4	40
Dibenzo(a,h)anthracene	<231		3860	3496		ug/Kg	✱	91	12 - 122	3	40
Dibenzofuran	<231		3860	2889		ug/Kg	✱	75	23 - 110	6	40
Diethyl phthalate	<231		3860	2827		ug/Kg	✱	73	22 - 112	6	40
Dimethyl phthalate	<231		3860	2957		ug/Kg	✱	77	20 - 114	5	40
Di-n-butyl phthalate	<231		3860	3317		ug/Kg	✱	86	24 - 114	3	40
Di-n-octyl phthalate	<231		3860	3077		ug/Kg	✱	80	14 - 142	1	40

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QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

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

Lab Sample ID: 310-269966-1 MSD

Matrix: Solid

Analysis Batch: 407426

Client Sample ID: SB1 (0-3)

Prep Type: Total/NA

Prep Batch: 407164

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoranthene	<231		3860	3135		ug/Kg	☼	81	14 - 118	4	40
Fluorene	<231		3860	2831		ug/Kg	☼	73	23 - 110	6	40
Hexachlorobenzene	<231		3860	3078		ug/Kg	☼	80	22 - 110	5	40
Hexachlorobutadiene	<231		3860	2976		ug/Kg	☼	77	17 - 110	5	40
Hexachlorocyclopentadiene	<463		3860	1952		ug/Kg	☼	51	10 - 128	34	40
Hexachloroethane	<231		3860	2862		ug/Kg	☼	74	10 - 117	2	40
Indeno(1,2,3-cd)pyrene	<231		3860	3705		ug/Kg	☼	96	10 - 129	3	40
Isophorone	<231		3860	3142		ug/Kg	☼	81	17 - 121	1	40
Naphthalene	<231		3860	3005		ug/Kg	☼	78	20 - 110	2	40
Nitrobenzene	<231		3860	3026		ug/Kg	☼	78	17 - 112	1	40
N-Nitrosodimethylamine	<231		3860	2686		ug/Kg	☼	70	10 - 125	1	40
N-Nitrosodi-n-propylamine	<231		3860	3079		ug/Kg	☼	80	18 - 123	3	40
N-Nitrosodiphenylamine	<231		3860	3095		ug/Kg	☼	80	16 - 115	3	40
Pentachlorophenol	<231		7710	6793		ug/Kg	☼	86	10 - 110	5	40
Phenanthrene	<231		3860	2986		ug/Kg	☼	77	17 - 116	4	40
Phenol	<231		3860	2909		ug/Kg	☼	75	19 - 112	3	40
Pyrene	<231		3860	3181		ug/Kg	☼	82	11 - 123	4	40
Pyridine	<231		7710	3969		ug/Kg	☼	51	10 - 110	9	40

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorophenol (Surr)	77		18 - 126
Phenol-d5 (Surr)	79		25 - 119
Nitrobenzene-d5 (Surr)	82		15 - 131
2-Fluorobiphenyl (Surr)	73		28 - 116
2,4,6-Tribromophenol (Surr)	84		10 - 121
Terphenyl-d14 (Surr)	78		24 - 132

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 310-407187/1-A

Matrix: Solid

Analysis Batch: 408003

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 407187

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<24.6		24.6		mg/Kg		11/29/23 09:27	12/06/23 10:46	1
Antimony	<4.93		4.93		mg/Kg		11/29/23 09:27	12/06/23 10:46	1
Arsenic	<3.94		3.94		mg/Kg		11/29/23 09:27	12/06/23 10:46	1
Barium	<0.985		0.985		mg/Kg		11/29/23 09:27	12/06/23 10:46	1
Beryllium	<0.493		0.493		mg/Kg		11/29/23 09:27	12/06/23 10:46	1
Cadmium	<0.985		0.985		mg/Kg		11/29/23 09:27	12/06/23 10:46	1
Calcium	<98.5		98.5		mg/Kg		11/29/23 09:27	12/06/23 10:46	1
Chromium	<0.985		0.985		mg/Kg		11/29/23 09:27	12/06/23 10:46	1
Cobalt	<0.985		0.985		mg/Kg		11/29/23 09:27	12/06/23 10:46	1
Copper	<0.985		0.985		mg/Kg		11/29/23 09:27	12/06/23 10:46	1
Iron	<49.3		49.3		mg/Kg		11/29/23 09:27	12/06/23 10:46	1
Lead	<4.93		4.93		mg/Kg		11/29/23 09:27	12/06/23 10:46	1
Magnesium	<49.3		49.3		mg/Kg		11/29/23 09:27	12/06/23 10:46	1
Manganese	<2.46		2.46		mg/Kg		11/29/23 09:27	12/06/23 10:46	1
Nickel	<2.46		2.46		mg/Kg		11/29/23 09:27	12/06/23 10:46	1

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QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

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

Lab Sample ID: MB 310-407187/1-A

Matrix: Solid

Analysis Batch: 408003

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 407187

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	<98.5		98.5		mg/Kg		11/29/23 09:27	12/06/23 10:46	1
Selenium	<4.93		4.93		mg/Kg		11/29/23 09:27	12/06/23 10:46	1
Silver	<0.985		0.985		mg/Kg		11/29/23 09:27	12/06/23 10:46	1
Sodium	<98.5		98.5		mg/Kg		11/29/23 09:27	12/06/23 10:46	1
Thallium	<4.93		4.93		mg/Kg		11/29/23 09:27	12/06/23 10:46	1
Vanadium	<2.46		2.46		mg/Kg		11/29/23 09:27	12/06/23 10:46	1
Zinc	<4.93		4.93		mg/Kg		11/29/23 09:27	12/06/23 10:46	1

Lab Sample ID: LCS 310-407187/2-A

Matrix: Solid

Analysis Batch: 408003

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 407187

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	198	196.0		mg/Kg		99	80 - 120
Antimony	198	189.3		mg/Kg		96	80 - 120
Arsenic	198	189.5		mg/Kg		96	80 - 120
Barium	98.8	95.25		mg/Kg		96	80 - 120
Beryllium	98.8	96.26		mg/Kg		97	80 - 120
Cadmium	98.8	92.15		mg/Kg		93	80 - 120
Calcium	1980	1841		mg/Kg		93	80 - 120
Chromium	98.8	92.25		mg/Kg		93	80 - 120
Cobalt	98.8	92.92		mg/Kg		94	80 - 120
Copper	198	186.0		mg/Kg		94	80 - 120
Iron	198	193.7		mg/Kg		98	80 - 120
Lead	198	182.7		mg/Kg		92	80 - 120
Magnesium	1980	1853		mg/Kg		94	80 - 120
Manganese	98.8	92.04		mg/Kg		93	80 - 120
Nickel	198	183.1		mg/Kg		93	80 - 120
Potassium	1980	1989		mg/Kg		101	80 - 120
Selenium	395	378.8		mg/Kg		96	80 - 120
Silver	98.8	88.76		mg/Kg		90	80 - 120
Sodium	1980	1960		mg/Kg		99	80 - 120
Thallium	198	179.0		mg/Kg		91	80 - 120
Vanadium	98.8	93.00		mg/Kg		94	80 - 120
Zinc	198	187.5		mg/Kg		95	80 - 120

Lab Sample ID: 310-269966-1 MS

Matrix: Solid

Analysis Batch: 408003

Client Sample ID: SB1 (0-3)

Prep Type: Total/NA

Prep Batch: 407187

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	19400		214	21060	4	mg/Kg	☼	775	75 - 125
Antimony	<5.36	F1	214	91.89	F1	mg/Kg	☼	43	75 - 125
Arsenic	8.46		214	212.4		mg/Kg	☼	95	75 - 125
Barium	147		107	265.4		mg/Kg	☼	111	75 - 125
Beryllium	1.42		107	109.4		mg/Kg	☼	101	75 - 125
Cadmium	<1.07		107	98.31		mg/Kg	☼	92	75 - 125
Calcium	4620		2140	6814		mg/Kg	☼	103	75 - 125
Chromium	21.0		107	121.5		mg/Kg	☼	94	75 - 125

Eurofins Cedar Falls

QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

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

Lab Sample ID: 310-269966-1 MS

Matrix: Solid

Analysis Batch: 408003

Client Sample ID: SB1 (0-3)

Prep Type: Total/NA

Prep Batch: 407187

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	11.5		107	112.5		mg/Kg	✱	94	75 - 125
Copper	8.13		214	214.3		mg/Kg	✱	96	75 - 125
Iron	18200		214	17730	4	mg/Kg	✱	-229	75 - 125
Lead	17.0		214	214.6		mg/Kg	✱	92	75 - 125
Magnesium	2200		2140	4319		mg/Kg	✱	99	75 - 125
Manganese	634		107	823.7	4	mg/Kg	✱	177	75 - 125
Nickel	15.0		214	213.3		mg/Kg	✱	93	75 - 125
Potassium	1240		2140	3544		mg/Kg	✱	108	75 - 125
Selenium	<5.36		428	417.0		mg/Kg	✱	97	75 - 125
Silver	<1.07		107	98.32		mg/Kg	✱	92	75 - 125
Sodium	<107		2140	2222		mg/Kg	✱	99	75 - 125
Thallium	<5.36		214	191.9		mg/Kg	✱	90	75 - 125
Vanadium	49.9		107	150.9		mg/Kg	✱	95	75 - 125
Zinc	33.7		214	242.7		mg/Kg	✱	98	75 - 125

Lab Sample ID: 310-269966-1 MSD

Matrix: Solid

Analysis Batch: 408003

Client Sample ID: SB1 (0-3)

Prep Type: Total/NA

Prep Batch: 407187

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	19400		215	21060	4	mg/Kg	✱	772	75 - 125	0	20
Antimony	<5.36	F1	215	91.50	F1	mg/Kg	✱	43	75 - 125	0	20
Arsenic	8.46		215	212.4		mg/Kg	✱	95	75 - 125	0	20
Barium	147		107	255.2		mg/Kg	✱	101	75 - 125	4	20
Beryllium	1.42		107	110.0		mg/Kg	✱	101	75 - 125	1	20
Cadmium	<1.07		107	98.62		mg/Kg	✱	92	75 - 125	0	20
Calcium	4620		2150	6433		mg/Kg	✱	85	75 - 125	6	20
Chromium	21.0		107	123.4		mg/Kg	✱	95	75 - 125	1	20
Cobalt	11.5		107	110.8		mg/Kg	✱	93	75 - 125	1	20
Copper	8.13		215	216.9		mg/Kg	✱	97	75 - 125	1	20
Iron	18200		215	18210	4	mg/Kg	✱	-5	75 - 125	3	20
Lead	17.0		215	213.4		mg/Kg	✱	92	75 - 125	1	20
Magnesium	2200		2150	4369		mg/Kg	✱	101	75 - 125	1	20
Manganese	634		107	775.4	4	mg/Kg	✱	132	75 - 125	6	20
Nickel	15.0		215	215.5		mg/Kg	✱	93	75 - 125	1	20
Potassium	1240		2150	3508		mg/Kg	✱	106	75 - 125	1	20
Selenium	<5.36		429	418.4		mg/Kg	✱	97	75 - 125	0	20
Silver	<1.07		107	98.20		mg/Kg	✱	92	75 - 125	0	20
Sodium	<107		2150	2237		mg/Kg	✱	100	75 - 125	1	20
Thallium	<5.36		215	191.6		mg/Kg	✱	89	75 - 125	0	20
Vanadium	49.9		107	153.5		mg/Kg	✱	97	75 - 125	2	20
Zinc	33.7		215	241.9		mg/Kg	✱	97	75 - 125	0	20

Lab Sample ID: 310-269966-10 DU

Matrix: Solid

Analysis Batch: 408003

Client Sample ID: SB5 (0-3)

Prep Type: Total/NA

Prep Batch: 407187

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	10900		11300		mg/Kg	✱	3	20

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QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

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

Lab Sample ID: 310-269966-10 DU

Matrix: Solid

Analysis Batch: 408003

Client Sample ID: SB5 (0-3)

Prep Type: Total/NA

Prep Batch: 407187

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	<5.22		<5.21		mg/Kg	✖	NC	20
Arsenic	11.7		13.15		mg/Kg	✖	12	20
Barium	345		285.1		mg/Kg	✖	19	20
Beryllium	1.19		1.279		mg/Kg	✖	8	20
Cadmium	<1.04		<1.04		mg/Kg	✖	NC	20
Calcium	5080		5645		mg/Kg	✖	11	20
Chromium	22.2		23.87		mg/Kg	✖	7	20
Cobalt	16.4		17.58		mg/Kg	✖	7	20
Copper	16.8		17.86		mg/Kg	✖	6	20
Iron	19000		20510		mg/Kg	✖	7	20
Lead	10.9		12.17		mg/Kg	✖	11	20
Magnesium	2630		2795		mg/Kg	✖	6	20
Manganese	1410		1147 F3		mg/Kg	✖	21	20
Nickel	35.8		35.57		mg/Kg	✖	0.7	20
Potassium	1430		1458		mg/Kg	✖	2	20
Selenium	<5.22		<5.21		mg/Kg	✖	NC	20
Silver	<1.04		<1.04		mg/Kg	✖	NC	20
Sodium	147		146.7		mg/Kg	✖	0.3	20
Thallium	<5.22		<5.21		mg/Kg	✖	NC	20
Vanadium	56.0		58.79		mg/Kg	✖	5	20
Zinc	61.7		65.62		mg/Kg	✖	6	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-406670/1-A

Matrix: Water

Analysis Batch: 406974

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 406670

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	<0.0500		0.0500		mg/L		11/21/23 09:35	11/23/23 00:24	1
Antimony	<0.00200		0.00200		mg/L		11/21/23 09:35	11/23/23 00:24	1
Arsenic	<0.00200		0.00200		mg/L		11/21/23 09:35	11/23/23 00:24	1
Barium	<0.00200		0.00200		mg/L		11/21/23 09:35	11/23/23 00:24	1
Beryllium	<0.00100		0.00100		mg/L		11/21/23 09:35	11/23/23 00:24	1
Cadmium	<0.000200		0.000200		mg/L		11/21/23 09:35	11/23/23 00:24	1
Calcium	<0.500		0.500		mg/L		11/21/23 09:35	11/23/23 00:24	1
Chromium	<0.00500		0.00500		mg/L		11/21/23 09:35	11/23/23 00:24	1
Cobalt	<0.000500		0.000500		mg/L		11/21/23 09:35	11/23/23 00:24	1
Copper	<0.00500		0.00500		mg/L		11/21/23 09:35	11/23/23 00:24	1
Iron	<0.100		0.100		mg/L		11/21/23 09:35	11/23/23 00:24	1
Lead	<0.000500		0.000500		mg/L		11/21/23 09:35	11/23/23 00:24	1
Magnesium	<0.500		0.500		mg/L		11/21/23 09:35	11/23/23 00:24	1
Manganese	<0.0100		0.0100		mg/L		11/21/23 09:35	11/23/23 00:24	1
Nickel	<0.00500		0.00500		mg/L		11/21/23 09:35	11/23/23 00:24	1
Potassium	<0.500		0.500		mg/L		11/21/23 09:35	11/23/23 00:24	1
Selenium	<0.00500		0.00500		mg/L		11/21/23 09:35	11/23/23 00:24	1
Silver	<0.00100		0.00100		mg/L		11/21/23 09:35	11/23/23 00:24	1
Sodium	<1.00		1.00		mg/L		11/21/23 09:35	11/23/23 00:24	1
Thallium	<0.00100		0.00100		mg/L		11/21/23 09:35	11/23/23 00:24	1

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QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

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

Lab Sample ID: MB 310-406670/1-A

Matrix: Water

Analysis Batch: 406974

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 406670

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	<0.00500		0.00500		mg/L		11/21/23 09:35	11/23/23 00:24	1
Zinc	<0.0200		0.0200		mg/L		11/21/23 09:35	11/23/23 00:24	1

Lab Sample ID: LCS 310-406670/2-A

Matrix: Water

Analysis Batch: 406974

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 406670

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	0.200	0.1956		mg/L		98	80 - 120
Antimony	0.200	0.2176		mg/L		109	80 - 120
Arsenic	0.200	0.2017		mg/L		101	80 - 120
Barium	0.100	0.09768		mg/L		98	80 - 120
Beryllium	0.100	0.1073		mg/L		107	80 - 120
Cadmium	0.100	0.09556		mg/L		96	80 - 120
Calcium	2.00	2.201		mg/L		110	80 - 120
Chromium	0.100	0.09580		mg/L		96	80 - 120
Cobalt	0.100	0.09492		mg/L		95	80 - 120
Copper	0.200	0.1903		mg/L		95	80 - 120
Iron	0.200	0.1985		mg/L		99	80 - 120
Lead	0.200	0.2094		mg/L		105	80 - 120
Magnesium	2.00	1.967		mg/L		98	80 - 120
Manganese	0.100	0.09479		mg/L		95	80 - 120
Nickel	0.200	0.1926		mg/L		96	80 - 120
Potassium	2.00	1.993		mg/L		100	80 - 120
Selenium	0.400	0.3721		mg/L		93	80 - 120
Silver	0.100	0.1008		mg/L		101	80 - 120
Sodium	2.00	1.944		mg/L		97	80 - 120
Thallium	0.200	0.1687		mg/L		84	80 - 120
Vanadium	0.100	0.1006		mg/L		101	80 - 120
Zinc	0.200	0.1740		mg/L		87	80 - 120

Lab Sample ID: 310-269966-17 DU

Matrix: Water

Analysis Batch: 406974

Client Sample ID: FB2

Prep Type: Total/NA

Prep Batch: 406670

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Aluminum	<0.0500		<0.0500		mg/L		NC	20
Antimony	<0.00200		<0.00200		mg/L		NC	20
Arsenic	<0.00200		<0.00200		mg/L		NC	20
Barium	<0.00200		<0.00200		mg/L		NC	20
Beryllium	<0.00100		<0.00100		mg/L		NC	20
Cadmium	<0.000200		<0.000200		mg/L		NC	20
Calcium	1.22		<0.500		mg/L		NC	20
Chromium	<0.00500		<0.00500		mg/L		NC	20
Cobalt	<0.000500		<0.000500		mg/L		NC	20
Copper	<0.00500		<0.00500		mg/L		NC	20
Iron	<0.100		<0.100		mg/L		NC	20
Lead	<0.000500		<0.000500		mg/L		NC	20
Magnesium	<0.500		<0.500		mg/L		NC	20

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QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

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

Lab Sample ID: 310-269966-17 DU

Matrix: Water

Analysis Batch: 406974

Client Sample ID: FB2

Prep Type: Total/NA

Prep Batch: 406670

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Manganese	<0.0100		<0.0100		mg/L		NC	20
Nickel	<0.00500		<0.00500		mg/L		NC	20
Potassium	<0.500		<0.500		mg/L		NC	20
Selenium	<0.00500		<0.00500		mg/L		NC	20
Silver	<0.00100		<0.00100		mg/L		NC	20
Sodium	<1.00		<1.00		mg/L		NC	20
Thallium	<0.00100		<0.00100		mg/L		NC	20
Vanadium	<0.00500		<0.00500		mg/L		NC	20
Zinc	<0.0200		<0.0200		mg/L		NC	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 310-408148/1-A

Matrix: Water

Analysis Batch: 408303

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 408148

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		12/07/23 13:11	12/08/23 11:04	1

Lab Sample ID: LCS 310-408148/2-A

Matrix: Water

Analysis Batch: 408303

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 408148

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00167	0.001626		mg/L		98	80 - 120

Lab Sample ID: MB 310-408151/1-A

Matrix: Water

Analysis Batch: 408303

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 408151

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		12/07/23 13:18	12/08/23 12:04	1

Lab Sample ID: LCS 310-408151/2-A

Matrix: Water

Analysis Batch: 408303

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 408151

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00167	0.001640		mg/L		98	80 - 120

Lab Sample ID: MB 310-408467/1-A

Matrix: Water

Analysis Batch: 408610

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 408467

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		12/11/23 12:03	12/12/23 10:00	1

Eurofins Cedar Falls

QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

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

Lab Sample ID: LCS 310-408467/2-A

Matrix: Water

Analysis Batch: 408610

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 408467

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00167	0.001783		mg/L		107	80 - 120

Lab Sample ID: 310-269966-15 MS

Matrix: Water

Analysis Batch: 408610

Client Sample ID: FB1

Prep Type: Total/NA

Prep Batch: 408467

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.000200		0.00167	0.001718		mg/L		103	80 - 120

Lab Sample ID: 310-269966-15 MSD

Matrix: Water

Analysis Batch: 408610

Client Sample ID: FB1

Prep Type: Total/NA

Prep Batch: 408467

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.000200		0.00167	0.001709		mg/L		103	80 - 120	1	20

Lab Sample ID: MB 310-408470/1-A

Matrix: Water

Analysis Batch: 408610

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 408470

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		12/11/23 12:07	12/12/23 11:03	1

Lab Sample ID: LCS 310-408470/2-A

Matrix: Water

Analysis Batch: 408610

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 408470

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00167	0.001664		mg/L		100	80 - 120

Lab Sample ID: 310-269966-14 MS

Matrix: Water

Analysis Batch: 408610

Client Sample ID: GW3

Prep Type: Dissolved

Prep Batch: 408470

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.000200		0.00167	0.001391		mg/L		83	80 - 120

Lab Sample ID: 310-269966-14 MSD

Matrix: Water

Analysis Batch: 408610

Client Sample ID: GW3

Prep Type: Dissolved

Prep Batch: 408470

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.000200		0.00167	0.001435		mg/L		86	80 - 120	3	20

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QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 310-406915/1-A
Matrix: Solid
Analysis Batch: 407228

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 406915

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0164		0.0164		mg/Kg		11/22/23 10:53	11/28/23 13:48	1

Lab Sample ID: LCS 310-406915/2-A
Matrix: Solid
Analysis Batch: 407228

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 406915

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.153	0.1574		mg/Kg		103	80 - 120

Lab Sample ID: MB 310-407585/1-A
Matrix: Solid
Analysis Batch: 407780

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 407585

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0189		0.0189		mg/Kg		12/01/23 09:48	12/04/23 13:04	1

Lab Sample ID: LCS 310-407585/2-A
Matrix: Solid
Analysis Batch: 407780

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 407585

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.150	0.1392		mg/Kg		93	80 - 120

Lab Sample ID: MB 310-407976/1-A
Matrix: Solid
Analysis Batch: 408147

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 407976

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0156		0.0156		mg/Kg		12/06/23 09:36	12/07/23 10:12	1

Lab Sample ID: LCS 310-407976/2-A
Matrix: Solid
Analysis Batch: 408147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 407976

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.131	0.1318		mg/Kg		101	80 - 120

Lab Sample ID: 310-269966-4 MS
Matrix: Solid
Analysis Batch: 408147

Client Sample ID: SB2 (22-24)
Prep Type: Total/NA
Prep Batch: 407976

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	2.70		0.165	2.062	4	mg/Kg	✱	-388	80 - 120

Lab Sample ID: 310-269966-4 MSD
Matrix: Solid
Analysis Batch: 408147

Client Sample ID: SB2 (22-24)
Prep Type: Total/NA
Prep Batch: 407976

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Mercury	2.70		0.149	1.740	4	mg/Kg	✱	-646	80 - 120	17

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QC Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 310-407979/1-A
Matrix: Solid
Analysis Batch: 408147

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 407979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0160		0.0160		mg/Kg		12/06/23 09:38	12/07/23 11:43	1

Lab Sample ID: LCS 310-407979/2-A
Matrix: Solid
Analysis Batch: 408147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 407979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.142	0.1483		mg/Kg		104	80 - 120

Method: Moisture - Percent Moisture

Lab Sample ID: 310-269966-8 DU
Matrix: Solid
Analysis Batch: 406542

Client Sample ID: SB4 (15-17)A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	17.1		17.2		%		0.9	39
Percent Solids	82.9		82.8		%		0.2	10

QC Association Summary

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

GC/MS VOA

Analysis Batch: 407335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-269966-12	GW2A	Total/NA	Water	8260D	
310-269966-13	GW2B	Total/NA	Water	8260D	
310-269966-14	GW3	Total/NA	Water	8260D	
310-269966-15	FB1	Total/NA	Water	8260D	
310-269966-16	GW4	Total/NA	Water	8260D	
310-269966-17	FB2	Total/NA	Water	8260D	
310-269966-18	EB1	Total/NA	Water	8260D	
MB 310-407335/7	Method Blank	Total/NA	Water	8260D	
LCS 310-407335/10	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-407335/8	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-407335/9	Lab Control Sample	Total/NA	Water	8260D	

Prep Batch: 407432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-269966-1	SB1 (0-3)	Total/NA	Solid	5035	407437
310-269966-2	SB1 (22-25)	Total/NA	Solid	5035	407437
310-269966-3	SB2 (0-3)	Total/NA	Solid	5035	407437
310-269966-4	SB2 (22-24)	Total/NA	Solid	5035	407437
310-269966-5	SB3 (0-3)	Total/NA	Solid	5035	407437
310-269966-6	SB3 (20-22)	Total/NA	Solid	5035	407437
310-269966-7	SB4 (0-3)	Total/NA	Solid	5035	407437
310-269966-8	SB4 (15-17)A	Total/NA	Solid	5035	407437
310-269966-9	SB4 (15-17)B	Total/NA	Solid	5035	407437
310-269966-10	SB5 (0-3)	Total/NA	Solid	5035	407437
310-269966-11	SB5 (18-20)	Total/NA	Solid	5035	407437
MB 310-407432/1-A	Method Blank	Total/NA	Solid	5035	
LCS 310-407432/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 310-407432/3-A	Lab Control Sample	Total/NA	Solid	5035	

Pre Prep Batch: 407437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-269966-1	SB1 (0-3)	Total/NA	Solid	Frozen Preserve	
310-269966-2	SB1 (22-25)	Total/NA	Solid	Frozen Preserve	
310-269966-3	SB2 (0-3)	Total/NA	Solid	Frozen Preserve	
310-269966-4	SB2 (22-24)	Total/NA	Solid	Frozen Preserve	
310-269966-5	SB3 (0-3)	Total/NA	Solid	Frozen Preserve	
310-269966-6	SB3 (20-22)	Total/NA	Solid	Frozen Preserve	
310-269966-7	SB4 (0-3)	Total/NA	Solid	Frozen Preserve	
310-269966-8	SB4 (15-17)A	Total/NA	Solid	Frozen Preserve	
310-269966-9	SB4 (15-17)B	Total/NA	Solid	Frozen Preserve	
310-269966-10	SB5 (0-3)	Total/NA	Solid	Frozen Preserve	
310-269966-11	SB5 (18-20)	Total/NA	Solid	Frozen Preserve	

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QC Association Summary

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

GC/MS VOA

Analysis Batch: 407445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-269966-12	GW2A	Total/NA	Water	8260D	
310-269966-13	GW2B	Total/NA	Water	8260D	
310-269966-14	GW3	Total/NA	Water	8260D	
310-269966-15	FB1	Total/NA	Water	8260D	
310-269966-16	GW4	Total/NA	Water	8260D	
310-269966-17	FB2	Total/NA	Water	8260D	
310-269966-18	EB1	Total/NA	Water	8260D	
MB 310-407445/6	Method Blank	Total/NA	Water	8260D	
LCS 310-407445/7	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-407445/8	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 407473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-269966-1	SB1 (0-3)	Total/NA	Solid	8260D	407432
310-269966-2	SB1 (22-25)	Total/NA	Solid	8260D	407432
310-269966-3	SB2 (0-3)	Total/NA	Solid	8260D	407432
310-269966-4	SB2 (22-24)	Total/NA	Solid	8260D	407432
310-269966-5	SB3 (0-3)	Total/NA	Solid	8260D	407432
310-269966-6	SB3 (20-22)	Total/NA	Solid	8260D	407432
310-269966-7	SB4 (0-3)	Total/NA	Solid	8260D	407432
310-269966-8	SB4 (15-17)A	Total/NA	Solid	8260D	407432
310-269966-9	SB4 (15-17)B	Total/NA	Solid	8260D	407432
310-269966-10	SB5 (0-3)	Total/NA	Solid	8260D	407432
310-269966-11	SB5 (18-20)	Total/NA	Solid	8260D	407432
MB 310-407432/1-A	Method Blank	Total/NA	Solid	8260D	407432
LCS 310-407432/2-A	Lab Control Sample	Total/NA	Solid	8260D	407432
LCS 310-407432/3-A	Lab Control Sample	Total/NA	Solid	8260D	407432

GC/MS Semi VOA

Prep Batch: 406676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-269966-12	GW2A	Total/NA	Water	3510C	
310-269966-13	GW2B	Total/NA	Water	3510C	
310-269966-14	GW3	Total/NA	Water	3510C	
310-269966-15	FB1	Total/NA	Water	3510C	
310-269966-16	GW4	Total/NA	Water	3510C	
310-269966-17	FB2	Total/NA	Water	3510C	
310-269966-18	EB1	Total/NA	Water	3510C	
MB 310-406676/1-A	Method Blank	Total/NA	Water	3510C	
LCS 310-406676/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 310-406676/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 310-406676/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 310-406676/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 407164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-269966-1	SB1 (0-3)	Total/NA	Solid	3546	
310-269966-2	SB1 (22-25)	Total/NA	Solid	3546	
310-269966-3	SB2 (0-3)	Total/NA	Solid	3546	
310-269966-4	SB2 (22-24)	Total/NA	Solid	3546	

Eurofins Cedar Falls

QC Association Summary

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

GC/MS Semi VOA (Continued)

Prep Batch: 407164 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-269966-5	SB3 (0-3)	Total/NA	Solid	3546	
310-269966-6	SB3 (20-22)	Total/NA	Solid	3546	
310-269966-7	SB4 (0-3)	Total/NA	Solid	3546	
310-269966-8	SB4 (15-17)A	Total/NA	Solid	3546	
310-269966-9	SB4 (15-17)B	Total/NA	Solid	3546	
310-269966-10	SB5 (0-3)	Total/NA	Solid	3546	
310-269966-11	SB5 (18-20)	Total/NA	Solid	3546	
MB 310-407164/1-A	Method Blank	Total/NA	Solid	3546	
LCS 310-407164/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 310-407164/3-A	Lab Control Sample	Total/NA	Solid	3546	
310-269966-1 MS	SB1 (0-3)	Total/NA	Solid	3546	
310-269966-1 MSD	SB1 (0-3)	Total/NA	Solid	3546	

Analysis Batch: 407426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-269966-1	SB1 (0-3)	Total/NA	Solid	8270E	407164
310-269966-2	SB1 (22-25)	Total/NA	Solid	8270E	407164
310-269966-3	SB2 (0-3)	Total/NA	Solid	8270E	407164
310-269966-4	SB2 (22-24)	Total/NA	Solid	8270E	407164
310-269966-5	SB3 (0-3)	Total/NA	Solid	8270E	407164
MB 310-407164/1-A	Method Blank	Total/NA	Solid	8270E	407164
LCS 310-407164/2-A	Lab Control Sample	Total/NA	Solid	8270E	407164
LCS 310-407164/3-A	Lab Control Sample	Total/NA	Solid	8270E	407164
310-269966-1 MS	SB1 (0-3)	Total/NA	Solid	8270E	407164
310-269966-1 MSD	SB1 (0-3)	Total/NA	Solid	8270E	407164

Analysis Batch: 407605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-269966-6	SB3 (20-22)	Total/NA	Solid	8270E	407164
310-269966-7	SB4 (0-3)	Total/NA	Solid	8270E	407164
310-269966-8	SB4 (15-17)A	Total/NA	Solid	8270E	407164
310-269966-9	SB4 (15-17)B	Total/NA	Solid	8270E	407164
310-269966-10	SB5 (0-3)	Total/NA	Solid	8270E	407164
310-269966-11	SB5 (18-20)	Total/NA	Solid	8270E	407164
310-269966-12	GW2A	Total/NA	Water	8270E	406676
310-269966-13	GW2B	Total/NA	Water	8270E	406676
310-269966-14	GW3	Total/NA	Water	8270E	406676
310-269966-15	FB1	Total/NA	Water	8270E	406676
310-269966-16	GW4	Total/NA	Water	8270E	406676
310-269966-17	FB2	Total/NA	Water	8270E	406676
310-269966-18	EB1	Total/NA	Water	8270E	406676
MB 310-406676/1-A	Method Blank	Total/NA	Water	8270E	406676
LCS 310-406676/2-A	Lab Control Sample	Total/NA	Water	8270E	406676
LCS 310-406676/4-A	Lab Control Sample	Total/NA	Water	8270E	406676
LCSD 310-406676/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	406676
LCSD 310-406676/5-A	Lab Control Sample Dup	Total/NA	Water	8270E	406676

Eurofins Cedar Falls

QC Association Summary

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Metals

Prep Batch: 406670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-269966-12	GW2A	Total/NA	Water	3005A	
310-269966-13	GW2B	Total/NA	Water	3005A	
310-269966-14	GW3	Total/NA	Water	3005A	
310-269966-15	FB1	Total/NA	Water	3005A	
310-269966-16	GW4	Total/NA	Water	3005A	
310-269966-17	FB2	Total/NA	Water	3005A	
310-269966-18	EB1	Total/NA	Water	3005A	
MB 310-406670/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-406670/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-269966-17 DU	FB2	Total/NA	Water	3005A	

Prep Batch: 406915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-269966-1	SB1 (0-3)	Total/NA	Solid	7471B	
MB 310-406915/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 310-406915/2-A	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 406943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-269966-12	GW2A	Dissolved	Water	3005A	
310-269966-13	GW2B	Dissolved	Water	3005A	
310-269966-14	GW3	Dissolved	Water	3005A	
310-269966-15	FB1	Dissolved	Water	3005A	
310-269966-16	GW4	Dissolved	Water	3005A	
310-269966-17	FB2	Dissolved	Water	3005A	
310-269966-18	EB1	Dissolved	Water	3005A	

Analysis Batch: 406974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-269966-12	GW2A	Total/NA	Water	6020B	406670
310-269966-13	GW2B	Total/NA	Water	6020B	406670
310-269966-14	GW3	Total/NA	Water	6020B	406670
310-269966-15	FB1	Total/NA	Water	6020B	406670
310-269966-16	GW4	Total/NA	Water	6020B	406670
310-269966-17	FB2	Total/NA	Water	6020B	406670
310-269966-18	EB1	Total/NA	Water	6020B	406670
MB 310-406670/1-A	Method Blank	Total/NA	Water	6020B	406670
LCS 310-406670/2-A	Lab Control Sample	Total/NA	Water	6020B	406670
310-269966-17 DU	FB2	Total/NA	Water	6020B	406670

Analysis Batch: 407170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-269966-12	GW2A	Total/NA	Water	6020B	406670
310-269966-13	GW2B	Total/NA	Water	6020B	406670
310-269966-14	GW3	Total/NA	Water	6020B	406670
310-269966-16	GW4	Total/NA	Water	6020B	406670

Prep Batch: 407187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-269966-1	SB1 (0-3)	Total/NA	Solid	3050B	
310-269966-2	SB1 (22-25)	Total/NA	Solid	3050B	

Eurofins Cedar Falls

QC Association Summary

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Metals (Continued)

Prep Batch: 407187 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-269966-3	SB2 (0-3)	Total/NA	Solid	3050B	
310-269966-4	SB2 (22-24)	Total/NA	Solid	3050B	
310-269966-5	SB3 (0-3)	Total/NA	Solid	3050B	
310-269966-6	SB3 (20-22)	Total/NA	Solid	3050B	
310-269966-7	SB4 (0-3)	Total/NA	Solid	3050B	
310-269966-8	SB4 (15-17)A	Total/NA	Solid	3050B	
310-269966-9	SB4 (15-17)B	Total/NA	Solid	3050B	
310-269966-10	SB5 (0-3)	Total/NA	Solid	3050B	
310-269966-11	SB5 (18-20)	Total/NA	Solid	3050B	
MB 310-407187/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 310-407187/2-A	Lab Control Sample	Total/NA	Solid	3050B	
310-269966-1 MS	SB1 (0-3)	Total/NA	Solid	3050B	
310-269966-1 MSD	SB1 (0-3)	Total/NA	Solid	3050B	
310-269966-10 DU	SB5 (0-3)	Total/NA	Solid	3050B	

Analysis Batch: 407228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-269966-1	SB1 (0-3)	Total/NA	Solid	7471B	406915
MB 310-406915/1-A	Method Blank	Total/NA	Solid	7471B	406915
LCS 310-406915/2-A	Lab Control Sample	Total/NA	Solid	7471B	406915

Analysis Batch: 407233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-269966-12	GW2A	Total/NA	Water	6020B	406670
310-269966-13	GW2B	Total/NA	Water	6020B	406670
310-269966-14	GW3	Total/NA	Water	6020B	406670
310-269966-16	GW4	Total/NA	Water	6020B	406670

Analysis Batch: 407373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-269966-12	GW2A	Dissolved	Water	6020B	406943
310-269966-12	GW2A	Dissolved	Water	6020B	406943
310-269966-13	GW2B	Dissolved	Water	6020B	406943
310-269966-13	GW2B	Dissolved	Water	6020B	406943
310-269966-14	GW3	Dissolved	Water	6020B	406943
310-269966-15	FB1	Dissolved	Water	6020B	406943
310-269966-16	GW4	Dissolved	Water	6020B	406943
310-269966-17	FB2	Dissolved	Water	6020B	406943
310-269966-18	EB1	Dissolved	Water	6020B	406943
310-269966-18	EB1	Dissolved	Water	6020B	406943

Analysis Batch: 407375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-269966-14	GW3	Dissolved	Water	6020B	406943

Prep Batch: 407585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-269966-2	SB1 (22-25)	Total/NA	Solid	7471B	
310-269966-3	SB2 (0-3)	Total/NA	Solid	7471B	
MB 310-407585/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 310-407585/2-A	Lab Control Sample	Total/NA	Solid	7471B	

Eurofins Cedar Falls

QC Association Summary

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Metals

Analysis Batch: 407780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-269966-2	SB1 (22-25)	Total/NA	Solid	7471B	407585
310-269966-3	SB2 (0-3)	Total/NA	Solid	7471B	407585
MB 310-407585/1-A	Method Blank	Total/NA	Solid	7471B	407585
LCS 310-407585/2-A	Lab Control Sample	Total/NA	Solid	7471B	407585

Prep Batch: 407976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-269966-4	SB2 (22-24)	Total/NA	Solid	7471B	
310-269966-5	SB3 (0-3)	Total/NA	Solid	7471B	
310-269966-6	SB3 (20-22)	Total/NA	Solid	7471B	
310-269966-7	SB4 (0-3)	Total/NA	Solid	7471B	
310-269966-8	SB4 (15-17)A	Total/NA	Solid	7471B	
310-269966-9	SB4 (15-17)B	Total/NA	Solid	7471B	
MB 310-407976/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 310-407976/2-A	Lab Control Sample	Total/NA	Solid	7471B	
310-269966-4 MS	SB2 (22-24)	Total/NA	Solid	7471B	
310-269966-4 MSD	SB2 (22-24)	Total/NA	Solid	7471B	

Prep Batch: 407979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-269966-10	SB5 (0-3)	Total/NA	Solid	7471B	
310-269966-11	SB5 (18-20)	Total/NA	Solid	7471B	
MB 310-407979/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 310-407979/2-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 408003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-269966-1	SB1 (0-3)	Total/NA	Solid	6010D	407187
310-269966-2	SB1 (22-25)	Total/NA	Solid	6010D	407187
310-269966-3	SB2 (0-3)	Total/NA	Solid	6010D	407187
310-269966-4	SB2 (22-24)	Total/NA	Solid	6010D	407187
310-269966-5	SB3 (0-3)	Total/NA	Solid	6010D	407187
310-269966-6	SB3 (20-22)	Total/NA	Solid	6010D	407187
310-269966-7	SB4 (0-3)	Total/NA	Solid	6010D	407187
310-269966-8	SB4 (15-17)A	Total/NA	Solid	6010D	407187
310-269966-9	SB4 (15-17)B	Total/NA	Solid	6010D	407187
310-269966-10	SB5 (0-3)	Total/NA	Solid	6010D	407187
310-269966-11	SB5 (18-20)	Total/NA	Solid	6010D	407187
MB 310-407187/1-A	Method Blank	Total/NA	Solid	6010D	407187
LCS 310-407187/2-A	Lab Control Sample	Total/NA	Solid	6010D	407187
310-269966-1 MS	SB1 (0-3)	Total/NA	Solid	6010D	407187
310-269966-1 MSD	SB1 (0-3)	Total/NA	Solid	6010D	407187
310-269966-10 DU	SB5 (0-3)	Total/NA	Solid	6010D	407187

Analysis Batch: 408147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-269966-4	SB2 (22-24)	Total/NA	Solid	7471B	407976
310-269966-5	SB3 (0-3)	Total/NA	Solid	7471B	407976
310-269966-6	SB3 (20-22)	Total/NA	Solid	7471B	407976
310-269966-7	SB4 (0-3)	Total/NA	Solid	7471B	407976
310-269966-8	SB4 (15-17)A	Total/NA	Solid	7471B	407976

Eurofins Cedar Falls

QC Association Summary

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Metals (Continued)

Analysis Batch: 408147 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-269966-9	SB4 (15-17)B	Total/NA	Solid	7471B	407976
310-269966-10	SB5 (0-3)	Total/NA	Solid	7471B	407979
310-269966-11	SB5 (18-20)	Total/NA	Solid	7471B	407979
MB 310-407976/1-A	Method Blank	Total/NA	Solid	7471B	407976
MB 310-407979/1-A	Method Blank	Total/NA	Solid	7471B	407979
LCS 310-407976/2-A	Lab Control Sample	Total/NA	Solid	7471B	407976
LCS 310-407979/2-A	Lab Control Sample	Total/NA	Solid	7471B	407979
310-269966-4 MS	SB2 (22-24)	Total/NA	Solid	7471B	407976
310-269966-4 MSD	SB2 (22-24)	Total/NA	Solid	7471B	407976

Prep Batch: 408148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-269966-12	GW2A	Dissolved	Water	7470A	
MB 310-408148/1-A	Method Blank	Total/NA	Water	7470A	
LCS 310-408148/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 408151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-269966-12	GW2A	Total/NA	Water	7470A	
MB 310-408151/1-A	Method Blank	Total/NA	Water	7470A	
LCS 310-408151/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 408303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-269966-12	GW2A	Dissolved	Water	7470A	408148
310-269966-12	GW2A	Total/NA	Water	7470A	408151
MB 310-408148/1-A	Method Blank	Total/NA	Water	7470A	408148
MB 310-408151/1-A	Method Blank	Total/NA	Water	7470A	408151
LCS 310-408148/2-A	Lab Control Sample	Total/NA	Water	7470A	408148
LCS 310-408151/2-A	Lab Control Sample	Total/NA	Water	7470A	408151

Prep Batch: 408467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-269966-13	GW2B	Total/NA	Water	7470A	
310-269966-14	GW3	Total/NA	Water	7470A	
310-269966-15	FB1	Total/NA	Water	7470A	
310-269966-16	GW4	Total/NA	Water	7470A	
310-269966-17	FB2	Total/NA	Water	7470A	
310-269966-18	EB1	Total/NA	Water	7470A	
MB 310-408467/1-A	Method Blank	Total/NA	Water	7470A	
LCS 310-408467/2-A	Lab Control Sample	Total/NA	Water	7470A	
310-269966-15 MS	FB1	Total/NA	Water	7470A	
310-269966-15 MSD	FB1	Total/NA	Water	7470A	

Prep Batch: 408470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-269966-13	GW2B	Dissolved	Water	7470A	
310-269966-14	GW3	Dissolved	Water	7470A	
310-269966-15	FB1	Dissolved	Water	7470A	
310-269966-16	GW4	Dissolved	Water	7470A	
310-269966-17	FB2	Dissolved	Water	7470A	

Eurofins Cedar Falls

QC Association Summary

Client: Tetra Tech EM Inc.

Job ID: 310-269966-1

Project/Site: Cameron City Park Site, Cameron MO

Metals (Continued)

Prep Batch: 408470 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-269966-18	EB1	Dissolved	Water	7470A	
MB 310-408470/1-A	Method Blank	Total/NA	Water	7470A	
LCS 310-408470/2-A	Lab Control Sample	Total/NA	Water	7470A	
310-269966-14 MS	GW3	Dissolved	Water	7470A	
310-269966-14 MSD	GW3	Dissolved	Water	7470A	

Analysis Batch: 408610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-269966-13	GW2B	Dissolved	Water	7470A	408470
310-269966-13	GW2B	Total/NA	Water	7470A	408467
310-269966-14	GW3	Dissolved	Water	7470A	408470
310-269966-14	GW3	Total/NA	Water	7470A	408467
310-269966-15	FB1	Dissolved	Water	7470A	408470
310-269966-15	FB1	Total/NA	Water	7470A	408467
310-269966-16	GW4	Dissolved	Water	7470A	408470
310-269966-16	GW4	Total/NA	Water	7470A	408467
310-269966-17	FB2	Dissolved	Water	7470A	408470
310-269966-17	FB2	Total/NA	Water	7470A	408467
310-269966-18	EB1	Dissolved	Water	7470A	408470
310-269966-18	EB1	Total/NA	Water	7470A	408467
MB 310-408467/1-A	Method Blank	Total/NA	Water	7470A	408467
MB 310-408470/1-A	Method Blank	Total/NA	Water	7470A	408470
LCS 310-408467/2-A	Lab Control Sample	Total/NA	Water	7470A	408467
LCS 310-408470/2-A	Lab Control Sample	Total/NA	Water	7470A	408470
310-269966-14 MS	GW3	Dissolved	Water	7470A	408470
310-269966-14 MSD	GW3	Dissolved	Water	7470A	408470
310-269966-15 MS	FB1	Total/NA	Water	7470A	408467
310-269966-15 MSD	FB1	Total/NA	Water	7470A	408467

General Chemistry

Analysis Batch: 406542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-269966-1	SB1 (0-3)	Total/NA	Solid	Moisture	
310-269966-2	SB1 (22-25)	Total/NA	Solid	Moisture	
310-269966-3	SB2 (0-3)	Total/NA	Solid	Moisture	
310-269966-4	SB2 (22-24)	Total/NA	Solid	Moisture	
310-269966-5	SB3 (0-3)	Total/NA	Solid	Moisture	
310-269966-6	SB3 (20-22)	Total/NA	Solid	Moisture	
310-269966-7	SB4 (0-3)	Total/NA	Solid	Moisture	
310-269966-8	SB4 (15-17)A	Total/NA	Solid	Moisture	
310-269966-9	SB4 (15-17)B	Total/NA	Solid	Moisture	
310-269966-10	SB5 (0-3)	Total/NA	Solid	Moisture	
310-269966-11	SB5 (18-20)	Total/NA	Solid	Moisture	
310-269966-8 DU	SB4 (15-17)A	Total/NA	Solid	Moisture	

Eurofins Cedar Falls

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB1 (0-3)

Date Collected: 11/16/23 09:40

Date Received: 11/18/23 08:50

Lab Sample ID: 310-269966-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	406542	W9YR	EET CF	11/20/23 08:50

Client Sample ID: SB1 (0-3)

Date Collected: 11/16/23 09:40

Date Received: 11/18/23 08:50

Lab Sample ID: 310-269966-1

Matrix: Solid

Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			407437	MZR8	EET CF	11/18/23 09:30
Total/NA	Prep	5035			407432	MZR8	EET CF	11/30/23 09:01
Total/NA	Analysis	8260D		1	407473	MZR8	EET CF	11/30/23 22:01
Total/NA	Prep	3546			407164	DZK8	EET CF	11/28/23 09:37
Total/NA	Analysis	8270E		1	407426	L0FS	EET CF	11/30/23 20:13
Total/NA	Prep	3050B			407187	DHM5	EET CF	11/29/23 09:27
Total/NA	Analysis	6010D		1	408003	ZRI4	EET CF	12/06/23 10:52
Total/NA	Prep	7471B			406915	NFT2	EET CF	11/22/23 10:53
Total/NA	Analysis	7471B		1	407228	NFT2	EET CF	11/28/23 14:35

Client Sample ID: SB1 (22-25)

Date Collected: 11/16/23 09:50

Date Received: 11/18/23 08:50

Lab Sample ID: 310-269966-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	406542	W9YR	EET CF	11/20/23 08:50

Client Sample ID: SB1 (22-25)

Date Collected: 11/16/23 09:50

Date Received: 11/18/23 08:50

Lab Sample ID: 310-269966-2

Matrix: Solid

Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			407437	MZR8	EET CF	11/18/23 09:30
Total/NA	Prep	5035			407432	MZR8	EET CF	11/30/23 09:01
Total/NA	Analysis	8260D		1	407473	MZR8	EET CF	11/30/23 16:22
Total/NA	Prep	3546			407164	DZK8	EET CF	11/28/23 09:37
Total/NA	Analysis	8270E		1	407426	L0FS	EET CF	11/30/23 20:40
Total/NA	Prep	3050B			407187	DHM5	EET CF	11/29/23 09:27
Total/NA	Analysis	6010D		2	408003	ZRI4	EET CF	12/06/23 11:39
Total/NA	Prep	7471B			407585	NFT2	EET CF	12/01/23 09:48
Total/NA	Analysis	7471B		1	407780	NFT2	EET CF	12/04/23 13:11

Client Sample ID: SB2 (0-3)

Date Collected: 11/16/23 11:05

Date Received: 11/18/23 08:50

Lab Sample ID: 310-269966-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	406542	W9YR	EET CF	11/20/23 08:50

Eurofins Cedar Falls

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB2 (0-3)

Lab Sample ID: 310-269966-3

Date Collected: 11/16/23 11:05

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			407437	MZR8	EET CF	11/18/23 09:30
Total/NA	Prep	5035			407432	MZR8	EET CF	11/30/23 09:01
Total/NA	Analysis	8260D		1	407473	MZR8	EET CF	11/30/23 16:46
Total/NA	Prep	3546			407164	DZK8	EET CF	11/28/23 09:37
Total/NA	Analysis	8270E		1	407426	L0FS	EET CF	11/30/23 21:06
Total/NA	Prep	3050B			407187	DHM5	EET CF	11/29/23 09:27
Total/NA	Analysis	6010D		1	408003	ZRI4	EET CF	12/06/23 11:09
Total/NA	Prep	7471B			407585	NFT2	EET CF	12/01/23 09:48
Total/NA	Analysis	7471B		1	407780	NFT2	EET CF	12/04/23 13:13

Client Sample ID: SB2 (22-24)

Lab Sample ID: 310-269966-4

Date Collected: 11/16/23 11:15

Matrix: Solid

Date Received: 11/18/23 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	406542	W9YR	EET CF	11/20/23 08:50

Client Sample ID: SB2 (22-24)

Lab Sample ID: 310-269966-4

Date Collected: 11/16/23 11:15

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 92.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			407437	MZR8	EET CF	11/18/23 09:30
Total/NA	Prep	5035			407432	MZR8	EET CF	11/30/23 09:01
Total/NA	Analysis	8260D		1	407473	MZR8	EET CF	11/30/23 17:10
Total/NA	Prep	3546			407164	DZK8	EET CF	11/28/23 09:37
Total/NA	Analysis	8270E		1	407426	L0FS	EET CF	11/30/23 21:33
Total/NA	Prep	3050B			407187	DHM5	EET CF	11/29/23 09:27
Total/NA	Analysis	6010D		1	408003	ZRI4	EET CF	12/06/23 11:11
Total/NA	Prep	7471B			407976	NFT2	EET CF	12/06/23 09:36
Total/NA	Analysis	7471B		20	408147	NFT2	EET CF	12/07/23 10:24

Client Sample ID: SB3 (0-3)

Lab Sample ID: 310-269966-5

Date Collected: 11/16/23 12:55

Matrix: Solid

Date Received: 11/18/23 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	406542	W9YR	EET CF	11/20/23 08:50

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB3 (0-3)

Lab Sample ID: 310-269966-5

Date Collected: 11/16/23 12:55

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			407437	MZR8	EET CF	11/18/23 09:30
Total/NA	Prep	5035			407432	MZR8	EET CF	11/30/23 09:01
Total/NA	Analysis	8260D		1	407473	MZR8	EET CF	11/30/23 17:34
Total/NA	Prep	3546			407164	DZK8	EET CF	11/28/23 09:37
Total/NA	Analysis	8270E		1	407426	L0FS	EET CF	11/30/23 21:59
Total/NA	Prep	3050B			407187	DHM5	EET CF	11/29/23 09:27
Total/NA	Analysis	6010D		1	408003	ZRI4	EET CF	12/06/23 11:13
Total/NA	Prep	7471B			407976	NFT2	EET CF	12/06/23 09:36
Total/NA	Analysis	7471B		20	408147	NFT2	EET CF	12/07/23 10:46

Client Sample ID: SB3 (20-22)

Lab Sample ID: 310-269966-6

Date Collected: 11/16/23 13:10

Matrix: Solid

Date Received: 11/18/23 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	406542	W9YR	EET CF	11/20/23 08:50

Client Sample ID: SB3 (20-22)

Lab Sample ID: 310-269966-6

Date Collected: 11/16/23 13:10

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			407437	MZR8	EET CF	11/18/23 09:30
Total/NA	Prep	5035			407432	MZR8	EET CF	11/30/23 09:01
Total/NA	Analysis	8260D		1	407473	MZR8	EET CF	11/30/23 17:59
Total/NA	Prep	3546			407164	DZK8	EET CF	11/28/23 09:37
Total/NA	Analysis	8270E		1	407605	L0FS	EET CF	12/01/23 23:18
Total/NA	Prep	3050B			407187	DHM5	EET CF	11/29/23 09:27
Total/NA	Analysis	6010D		1	408003	ZRI4	EET CF	12/06/23 11:16
Total/NA	Prep	7471B			407976	NFT2	EET CF	12/06/23 09:36
Total/NA	Analysis	7471B		1	408147	NFT2	EET CF	12/07/23 10:37

Client Sample ID: SB4 (0-3)

Lab Sample ID: 310-269966-7

Date Collected: 11/16/23 14:55

Matrix: Solid

Date Received: 11/18/23 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	406542	W9YR	EET CF	11/20/23 08:50

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB4 (0-3)

Lab Sample ID: 310-269966-7

Date Collected: 11/16/23 14:55

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 81.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			407437	MZR8	EET CF	11/18/23 09:30
Total/NA	Prep	5035			407432	MZR8	EET CF	11/30/23 09:01
Total/NA	Analysis	8260D		1	407473	MZR8	EET CF	11/30/23 18:23
Total/NA	Prep	3546			407164	DZK8	EET CF	11/28/23 09:37
Total/NA	Analysis	8270E		1	407605	L0FS	EET CF	12/01/23 23:45
Total/NA	Prep	3050B			407187	DHM5	EET CF	11/29/23 09:27
Total/NA	Analysis	6010D		2	408003	ZRI4	EET CF	12/06/23 11:41
Total/NA	Prep	7471B			407976	NFT2	EET CF	12/06/23 09:36
Total/NA	Analysis	7471B		1	408147	NFT2	EET CF	12/07/23 10:49

Client Sample ID: SB4 (15-17)A

Lab Sample ID: 310-269966-8

Date Collected: 11/16/23 15:00

Matrix: Solid

Date Received: 11/18/23 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	406542	W9YR	EET CF	11/20/23 08:50

Client Sample ID: SB4 (15-17)A

Lab Sample ID: 310-269966-8

Date Collected: 11/16/23 15:00

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			407437	MZR8	EET CF	11/18/23 09:30
Total/NA	Prep	5035			407432	MZR8	EET CF	11/30/23 09:01
Total/NA	Analysis	8260D		1	407473	MZR8	EET CF	11/30/23 18:47
Total/NA	Prep	3546			407164	DZK8	EET CF	11/28/23 09:37
Total/NA	Analysis	8270E		5	407605	L0FS	EET CF	12/02/23 00:12
Total/NA	Prep	3050B			407187	DHM5	EET CF	11/29/23 09:27
Total/NA	Analysis	6010D		1	408003	ZRI4	EET CF	12/06/23 11:20
Total/NA	Prep	7471B			407976	NFT2	EET CF	12/06/23 09:36
Total/NA	Analysis	7471B		10	408147	NFT2	EET CF	12/07/23 11:05

Client Sample ID: SB4 (15-17)B

Lab Sample ID: 310-269966-9

Date Collected: 11/16/23 15:00

Matrix: Solid

Date Received: 11/18/23 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	406542	W9YR	EET CF	11/20/23 08:50

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB4 (15-17)B

Lab Sample ID: 310-269966-9

Date Collected: 11/16/23 15:00

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			407437	MZR8	EET CF	11/18/23 09:30
Total/NA	Prep	5035			407432	MZR8	EET CF	11/30/23 09:01
Total/NA	Analysis	8260D		1	407473	MZR8	EET CF	11/30/23 19:12
Total/NA	Prep	3546			407164	DZK8	EET CF	11/28/23 09:37
Total/NA	Analysis	8270E		5	407605	L0FS	EET CF	12/02/23 00:38
Total/NA	Prep	3050B			407187	DHM5	EET CF	11/29/23 09:27
Total/NA	Analysis	6010D		1	408003	ZRI4	EET CF	12/06/23 11:22
Total/NA	Prep	7471B			407976	NFT2	EET CF	12/06/23 09:36
Total/NA	Analysis	7471B		10	408147	NFT2	EET CF	12/07/23 11:07

Client Sample ID: SB5 (0-3)

Lab Sample ID: 310-269966-10

Date Collected: 11/17/23 09:30

Matrix: Solid

Date Received: 11/18/23 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	406542	W9YR	EET CF	11/20/23 09:51

Client Sample ID: SB5 (0-3)

Lab Sample ID: 310-269966-10

Date Collected: 11/17/23 09:30

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 82.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			407437	MZR8	EET CF	11/18/23 09:30
Total/NA	Prep	5035			407432	MZR8	EET CF	11/30/23 09:01
Total/NA	Analysis	8260D		1	407473	MZR8	EET CF	11/30/23 19:36
Total/NA	Prep	3546			407164	DZK8	EET CF	11/28/23 09:37
Total/NA	Analysis	8270E		1	407605	L0FS	EET CF	12/02/23 01:05
Total/NA	Prep	3050B			407187	DHM5	EET CF	11/29/23 09:27
Total/NA	Analysis	6010D		1	408003	ZRI4	EET CF	12/06/23 11:24
Total/NA	Prep	7471B			407979	NFT2	EET CF	12/06/23 09:38
Total/NA	Analysis	7471B		1	408147	NFT2	EET CF	12/07/23 12:11

Client Sample ID: SB5 (18-20)

Lab Sample ID: 310-269966-11

Date Collected: 11/17/23 09:40

Matrix: Solid

Date Received: 11/18/23 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	406542	W9YR	EET CF	11/20/23 09:51

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: SB5 (18-20)

Lab Sample ID: 310-269966-11

Date Collected: 11/17/23 09:40

Matrix: Solid

Date Received: 11/18/23 08:50

Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			407437	MZR8	EET CF	11/18/23 09:30
Total/NA	Prep	5035			407432	MZR8	EET CF	11/30/23 09:01
Total/NA	Analysis	8260D		1	407473	MZR8	EET CF	11/30/23 20:00
Total/NA	Prep	3546			407164	DZK8	EET CF	11/28/23 09:37
Total/NA	Analysis	8270E		5	407605	L0FS	EET CF	12/02/23 01:31
Total/NA	Prep	3050B			407187	DHM5	EET CF	11/29/23 09:27
Total/NA	Analysis	6010D		1	408003	ZRI4	EET CF	12/06/23 11:29
Total/NA	Prep	7471B			407979	NFT2	EET CF	12/06/23 09:38
Total/NA	Analysis	7471B		1	408147	NFT2	EET CF	12/07/23 12:13

Client Sample ID: GW2A

Lab Sample ID: 310-269966-12

Date Collected: 11/16/23 11:35

Matrix: Water

Date Received: 11/18/23 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	407445	WSE8	EET CF	11/30/23 18:05
Total/NA	Analysis	8260D		1	407335	WSE8	EET CF	11/29/23 15:57
Total/NA	Prep	3510C			406676	Y6AF	EET CF	11/21/23 05:22
Total/NA	Analysis	8270E		1	407605	L0FS	EET CF	12/01/23 20:11
Dissolved	Prep	3005A			406943	QTZ5	EET CF	11/27/23 09:35
Dissolved	Analysis	6020B		1	407373	A6US	EET CF	11/29/23 12:13
Dissolved	Prep	3005A			406943	QTZ5	EET CF	11/27/23 09:35
Dissolved	Analysis	6020B		4	407373	A6US	EET CF	11/29/23 13:39
Total/NA	Prep	3005A			406670	KCK5	EET CF	11/21/23 09:35
Total/NA	Analysis	6020B		1	406974	A6US	EET CF	11/23/23 01:42
Total/NA	Prep	3005A			406670	KCK5	EET CF	11/21/23 09:35
Total/NA	Analysis	6020B		4	407170	A6US	EET CF	11/27/23 12:21
Total/NA	Prep	3005A			406670	KCK5	EET CF	11/21/23 09:35
Total/NA	Analysis	6020B		4	407233	A6US	EET CF	11/28/23 15:17
Dissolved	Prep	7470A			408148	NFT2	EET CF	12/07/23 13:11
Dissolved	Analysis	7470A		1	408303	DHM5	EET CF	12/08/23 11:08
Total/NA	Prep	7470A			408151	NFT2	EET CF	12/07/23 13:18
Total/NA	Analysis	7470A		1	408303	DHM5	EET CF	12/08/23 13:12

Client Sample ID: GW2B

Lab Sample ID: 310-269966-13

Date Collected: 11/16/23 11:50

Matrix: Water

Date Received: 11/18/23 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	407445	WSE8	EET CF	11/30/23 15:10
Total/NA	Analysis	8260D		1	407335	WSE8	EET CF	11/29/23 16:21
Total/NA	Prep	3510C			406676	Y6AF	EET CF	11/21/23 05:22
Total/NA	Analysis	8270E		1	407605	L0FS	EET CF	12/01/23 20:38
Dissolved	Prep	3005A			406943	QTZ5	EET CF	11/27/23 09:35
Dissolved	Analysis	6020B		1	407373	A6US	EET CF	11/29/23 12:15

Eurofins Cedar Falls

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: GW2B

Lab Sample ID: 310-269966-13

Date Collected: 11/16/23 11:50

Matrix: Water

Date Received: 11/18/23 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			406943	QTZ5	EET CF	11/27/23 09:35
Dissolved	Analysis	6020B		4	407373	A6US	EET CF	11/29/23 13:20
Total/NA	Prep	3005A			406670	KCK5	EET CF	11/21/23 09:35
Total/NA	Analysis	6020B		1	406974	A6US	EET CF	11/23/23 01:45
Total/NA	Prep	3005A			406670	KCK5	EET CF	11/21/23 09:35
Total/NA	Analysis	6020B		4	407170	A6US	EET CF	11/27/23 12:25
Total/NA	Prep	3005A			406670	KCK5	EET CF	11/21/23 09:35
Total/NA	Analysis	6020B		4	407233	A6US	EET CF	11/28/23 15:20
Dissolved	Prep	7470A			408470	NFT2	EET CF	12/11/23 12:07
Dissolved	Analysis	7470A		1	408610	NFT2	EET CF	12/12/23 11:07
Total/NA	Prep	7470A			408467	NFT2	EET CF	12/11/23 12:04
Total/NA	Analysis	7470A		1	408610	NFT2	EET CF	12/12/23 10:04

Client Sample ID: GW3

Lab Sample ID: 310-269966-14

Date Collected: 11/16/23 13:30

Matrix: Water

Date Received: 11/18/23 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	407445	WSE8	EET CF	11/30/23 15:32
Total/NA	Analysis	8260D		1	407335	WSE8	EET CF	11/29/23 16:44
Total/NA	Prep	3510C			406676	Y6AF	EET CF	11/21/23 05:22
Total/NA	Analysis	8270E		1	407605	L0FS	EET CF	12/01/23 21:04
Dissolved	Prep	3005A			406943	QTZ5	EET CF	11/27/23 09:35
Dissolved	Analysis	6020B		1	407373	A6US	EET CF	11/29/23 12:17
Dissolved	Prep	3005A			406943	QTZ5	EET CF	11/27/23 09:35
Dissolved	Analysis	6020B		7	407375	A6US	EET CF	11/29/23 14:35
Total/NA	Prep	3005A			406670	KCK5	EET CF	11/21/23 09:35
Total/NA	Analysis	6020B		1	406974	A6US	EET CF	11/23/23 01:48
Total/NA	Prep	3005A			406670	KCK5	EET CF	11/21/23 09:35
Total/NA	Analysis	6020B		10	407170	A6US	EET CF	11/27/23 12:28
Total/NA	Prep	3005A			406670	KCK5	EET CF	11/21/23 09:35
Total/NA	Analysis	6020B		10	407233	A6US	EET CF	11/28/23 15:23
Dissolved	Prep	7470A			408470	NFT2	EET CF	12/11/23 12:07
Dissolved	Analysis	7470A		1	408610	NFT2	EET CF	12/12/23 11:13
Total/NA	Prep	7470A			408467	NFT2	EET CF	12/11/23 12:04
Total/NA	Analysis	7470A		1	408610	NFT2	EET CF	12/12/23 10:06

Client Sample ID: FB1

Lab Sample ID: 310-269966-15

Date Collected: 11/16/23 14:20

Matrix: Water

Date Received: 11/18/23 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	407445	WSE8	EET CF	11/30/23 13:00
Total/NA	Analysis	8260D		1	407335	WSE8	EET CF	11/29/23 14:24

Eurofins Cedar Falls

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: FB1

Lab Sample ID: 310-269966-15

Date Collected: 11/16/23 14:20

Matrix: Water

Date Received: 11/18/23 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			406676	Y6AF	EET CF	11/21/23 05:22
Total/NA	Analysis	8270E		1	407605	L0FS	EET CF	12/01/23 21:31
Dissolved	Prep	3005A			406943	QTZ5	EET CF	11/27/23 09:35
Dissolved	Analysis	6020B		1	407373	A6US	EET CF	11/29/23 12:19
Total/NA	Prep	3005A			406670	KCK5	EET CF	11/21/23 09:35
Total/NA	Analysis	6020B		1	406974	A6US	EET CF	11/23/23 01:51
Dissolved	Prep	7470A			408470	NFT2	EET CF	12/11/23 12:07
Dissolved	Analysis	7470A		1	408610	NFT2	EET CF	12/12/23 11:20
Total/NA	Prep	7470A			408467	NFT2	EET CF	12/11/23 12:04
Total/NA	Analysis	7470A		1	408610	NFT2	EET CF	12/12/23 10:08

Client Sample ID: GW4

Lab Sample ID: 310-269966-16

Date Collected: 11/16/23 15:10

Matrix: Water

Date Received: 11/18/23 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	407445	WSE8	EET CF	11/30/23 14:49
Total/NA	Analysis	8260D		1	407335	WSE8	EET CF	11/29/23 17:08
Total/NA	Prep	3510C			406676	Y6AF	EET CF	11/21/23 05:22
Total/NA	Analysis	8270E		1	407605	L0FS	EET CF	12/01/23 21:58
Dissolved	Prep	3005A			406943	QTZ5	EET CF	11/27/23 09:35
Dissolved	Analysis	6020B		1	407373	A6US	EET CF	11/29/23 12:22
Total/NA	Prep	3005A			406670	KCK5	EET CF	11/21/23 09:35
Total/NA	Analysis	6020B		1	406974	A6US	EET CF	11/23/23 01:54
Total/NA	Prep	3005A			406670	KCK5	EET CF	11/21/23 09:35
Total/NA	Analysis	6020B		4	407170	A6US	EET CF	11/27/23 12:31
Total/NA	Prep	3005A			406670	KCK5	EET CF	11/21/23 09:35
Total/NA	Analysis	6020B		4	407233	A6US	EET CF	11/28/23 15:26
Dissolved	Prep	7470A			408470	NFT2	EET CF	12/11/23 12:07
Dissolved	Analysis	7470A		1	408610	NFT2	EET CF	12/12/23 11:22
Total/NA	Prep	7470A			408467	NFT2	EET CF	12/11/23 12:04
Total/NA	Analysis	7470A		1	408610	NFT2	EET CF	12/12/23 10:19

Client Sample ID: FB2

Lab Sample ID: 310-269966-17

Date Collected: 11/17/23 09:35

Matrix: Water

Date Received: 11/18/23 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	407445	WSE8	EET CF	11/30/23 13:21
Total/NA	Analysis	8260D		1	407335	WSE8	EET CF	11/29/23 14:47
Total/NA	Prep	3510C			406676	Y6AF	EET CF	11/21/23 05:22
Total/NA	Analysis	8270E		1	407605	L0FS	EET CF	12/01/23 22:25
Dissolved	Prep	3005A			406943	QTZ5	EET CF	11/27/23 09:35
Dissolved	Analysis	6020B		1	407373	A6US	EET CF	11/29/23 12:24

Eurofins Cedar Falls

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Client Sample ID: FB2

Lab Sample ID: 310-269966-17

Date Collected: 11/17/23 09:35

Matrix: Water

Date Received: 11/18/23 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			406670	KCK5	EET CF	11/21/23 09:35
Total/NA	Analysis	6020B		1	406974	A6US	EET CF	11/23/23 01:57
Dissolved	Prep	7470A			408470	NFT2	EET CF	12/11/23 12:07
Dissolved	Analysis	7470A		1	408610	NFT2	EET CF	12/12/23 11:24
Total/NA	Prep	7470A			408467	NFT2	EET CF	12/11/23 12:04
Total/NA	Analysis	7470A		1	408610	NFT2	EET CF	12/12/23 10:24

Client Sample ID: EB1

Lab Sample ID: 310-269966-18

Date Collected: 11/17/23 10:15

Matrix: Water

Date Received: 11/18/23 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	407445	WSE8	EET CF	11/30/23 13:43
Total/NA	Analysis	8260D		1	407335	WSE8	EET CF	11/29/23 15:34
Total/NA	Prep	3510C			406676	Y6AF	EET CF	11/21/23 05:22
Total/NA	Analysis	8270E		1	407605	L0FS	EET CF	12/01/23 22:51
Dissolved	Prep	3005A			406943	QTZ5	EET CF	11/27/23 09:35
Dissolved	Analysis	6020B		1	407373	A6US	EET CF	11/29/23 12:26
Dissolved	Prep	3005A			406943	QTZ5	EET CF	11/27/23 09:35
Dissolved	Analysis	6020B		1	407373	A6US	EET CF	11/29/23 12:54
Total/NA	Prep	3005A			406670	KCK5	EET CF	11/21/23 09:35
Total/NA	Analysis	6020B		1	406974	A6US	EET CF	11/23/23 02:03
Dissolved	Prep	7470A			408470	NFT2	EET CF	12/11/23 12:07
Dissolved	Analysis	7470A		1	408610	NFT2	EET CF	12/12/23 11:26
Total/NA	Prep	7470A			408467	NFT2	EET CF	12/11/23 12:04
Total/NA	Analysis	7470A		1	408610	NFT2	EET CF	12/12/23 10:27

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Accreditation/Certification Summary

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Laboratory: Eurofins Cedar Falls

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

Authority	Program	Identification Number	Expiration Date
Colorado	Petroleum Storage Tank Program	IA100001 (OR)	09-29-24
Georgia	State	IA100001 (OR)	09-29-24
Illinois	NELAP	200024	11-30-24
Iowa	State	007	12-01-23 *
Kansas	NELAP	E-10341	01-31-24
Minnesota	NELAP	019-999-319	12-31-23
Minnesota (Petrofund)	State	3349	01-18-24
North Dakota	State	R-186	09-29-24
Oregon	NELAP	IA100001	09-29-24

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

Eurofins Cedar Falls

Method Summary

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO

Job ID: 310-269966-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CF
6010D	Metals (ICP)	SW846	EET CF
6020B	Metals (ICP/MS)	SW846	EET CF
7470A	Mercury (CVAA)	SW846	EET CF
7471B	Mercury (CVAA)	SW846	EET CF
Moisture	Percent Moisture	EPA	EET CF
3005A	Preparation, Total Metals	SW846	EET CF
3050B	Preparation, Metals	SW846	EET CF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CF
3546	Microwave Extraction	SW846	EET CF
5030B	Purge and Trap	SW846	EET CF
5035	Closed System Purge and Trap	SW846	EET CF
7470A	Preparation, Mercury	SW846	EET CF
7471B	Preparation, Mercury	SW846	EET CF
Frozen Preserve	Freezing Samples	None	EET CF

Protocol References:

EPA = US Environmental Protection Agency

None = None

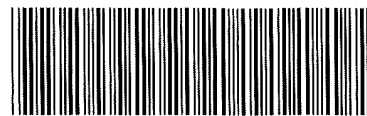
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401



Environment Testing
America



310-269966 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Tetra Tech</u>			
City/State:	CITY	STATE	Project:
Receipt Information			
Date/Time Received:	DATE <u>11/18/23</u>	TIME <u>8:50</u>	Received By: <u>UR</u>
Delivery Type: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <u>8A+</u> <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID:
Multiple Coolers?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler # <u>1</u> of <u>2</u>
Cooler Custody Seals Present?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sample Custody Seals Present?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Trip Blank Present?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓
Temperature Record			
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Thermometer ID: <u>P</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>3.1</u>		Corrected Temp (°C): <u>3.1</u>	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1		CONTAINER 2
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding If no, proceed with login			
Additional Comments			
<u>FW028: SB1 (0-3) - SB4 (15-17) A FW020: SB4 (15-17) B - SB5 (18-20)</u>			



Environment Testing
America

Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>tetra Tech</u>			
City/State:	CITY	STATE	Project:
Receipt Information			
Date/Time Received:	DATE <u>11/18/23</u>	TIME <u>8:50</u>	Received By: <u>LR</u>
Delivery Type: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <u>SAT</u> <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes: Cooler ID: _____			
Multiple Coolers? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes: Cooler # <u>2</u> of <u>2</u>			
Cooler Custody Seals Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Sample Custody Seals Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Trip Blank Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes: Which VOA samples are in cooler? ↓			
Temperature Record			
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Thermometer ID: <u>P</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>3.6</u>		Corrected Temp (°C): <u>3.6</u>	
• Sample Container Temperature			
Container(s) used:	<u>CONTAINER 1</u>		<u>CONTAINER 2</u>
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding If no, proceed with login			
Additional Comments			

[illegible]

Login Sample Receipt Checklist

Client: Tetra Tech EM Inc.

Job Number: 310-269966-1

Login Number: 269966

List Source: Eurofins Cedar Falls

List Number: 1

Creator: Muehling, Angela C

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

DATA VERIFICATION REPORT

Prepared by: Ellen McEntee
Date: December 14, 2023
Site Name/Job Number: Cameron City Park / 103G65210190.20.03
Laboratory: Eurofins Environment Testing – Cedar Falls, IA
Data Package or SDG Number: 310-269966-1
Sample Designations/Names (ID):

SB1 (0-3)	SB1 (22-25)	SB2 (0-3)	SB2 (22-24)
SB3 (0-3)	SB3 (20-22)	SB4 (0-3)	SB4 (15-17)A
SB4 (15-17)B	SB5 (0-3)	SB5 (18-20)	GW2A
GW2B	GW3	GW4	EB1
FB1	FB2		

Matrices: Soil and groundwater

Analytical Parameters: Volatile organic compounds (VOCs), including gasoline range organics (GRO,) by SW-846 method 8260D, semi-volatile organic compounds (SVOCs), including diesel range organics (DRO) and oil range organics (ORO), by SW-846 method 8270E, total and dissolved metals by SW-846 method 6010D/6020B, and total and dissolved mercury by SW-846 method 7471B/7470A

Data Package Element	Usable	Rejected	NA	Description of Affected Data (note specific samples and analytical parameters affected)
Chain of custody	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The chain of custody form was complete and the requested analyses were performed.
Data package completeness	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	All appropriate elements are included.
Sample preservation, storage, and holding times	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>Samples were received at the laboratory at <6 °C. All holding times were met with the following exceptions. Samples GW2A, GW2B, GW3, and GW4 were received at the laboratory with a pH greater than two for VOC analysis and were analyzed beyond the seven-day holding time for unpreserved samples. The results were qualified as estimated (flagged UJ).</p> <p>Samples GW2A, GW2B, GW3, and GW4 were received at the laboratory at a pH of greater than two for the metals and mercury analysis. The samples were preserved to the appropriate pH in the laboratory.</p>

Data Package Element	Usable	Rejected	NA	Description of Affected Data (note specific samples and analytical parameters affected)
Method and field blank contamination	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>FB1: Total barium, total calcium, total iron, total manganese, and dissolved manganese were detected in the field blank at concentrations greater than the reporting limit (RL). The associated sample results were greater than the RL and greater than 10 times the blank concentration; therefore, results were not qualified.</p> <p>FB2: Total calcium was detected in the field blank at a concentration greater than the RL. The associated sample results were greater than the RL and greater than 10 times the blank concentration; therefore, results were not qualified.</p> <p>Target analytes were not detected in the method blanks or equipment blank.</p>
Surrogate spikes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Surrogate spikes met all QC acceptance criteria.
Matrix spikes/matrix spike duplicates (MS/MSD)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>SB1 (0-3) Metals: The average MS/MSD recovery for antimony was below the acceptance limit. The parent sample result was qualified as estimated (flagged UJ). The average MS/MSD recoveries were outside the acceptance limit for aluminum, iron, and manganese; however, the parent sample concentrations were greater than four times the spike concentration. Results were not qualified.</p> <p>SB2 (22-24) Mercury: The average MS/MSD recovery was outside the acceptance limit for mercury; however, the parent sample concentration was greater than four times the spike concentration. Results were not qualified.</p> <p>MS/MSDs were not analyzed for VOCs and GRO.</p>

Data Package Element	Usable	Rejected	NA	Description of Affected Data (note specific samples and analytical parameters affected)
Laboratory control samples/Laboratory control sample duplicates (LCS/LCSD)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>LCS 310-406676/2-A/LCSD 310-406676/3-A: The average LCS/LCSD recoveries for 3-nitroaniline, 4-chloroaniline, and pyridine were below the acceptance limit. The results for 3-nitroaniline, 4-chloroaniline, and pyridine in samples GW2A, GW2B, GW3, GW4, EB1, FB1, and FB2 were qualified as estimated (flagged UJ).</p> <p>The relative percent differences (RPDs) for 4-chloroaniline and pyridine were above the acceptance limit. The associated sample results were nondetect and results were not qualified.</p> <p>LCS 310-406676/4-A/LCSD 310-406676/5-A: The average LCS/LCSD recovery for TPH-ORO (C21-C35) was below the acceptance limit. The results for TPH-ORO (C21-C35) in samples GW2A, GW2B, GW3, GW4, EB1, FB1, and FB2 were qualified as estimated (flagged UJ).</p> <p>LCS 310-407164/2-A: The LCS recovery for TPH-ORO (C21-C35) was below the acceptance limit. The TPH-ORO (C21-C35) results for samples SB1 (0-3), SB1 (22-25), SB2 (0-3), SB2 (22-24), SB3 (0-3), SB3 (20-22), SB4 (0-3), SB4 (15-17)A, SB4 (15-17)B, SB5 (0-3), and SB5 (18-20) were qualified as estimated (flagged UJ).</p>
Laboratory duplicate	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>SB5 (0-3) Metals: Precision criteria were not met for manganese. The parent sample result was qualified as estimated (flagged J).</p> <p>FB2 Metals: Precision criteria were not met for calcium. The parent sample result was qualified as estimated (flagged J).</p>
Summary The data is usable as qualified during data validation.				

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Emily Fisher
Tetra Tech EM Inc.
415 Oak Street
Kansas City, Missouri 64106

Generated 12/3/2023 6:48:51 PM

JOB DESCRIPTION

Cameron City Park Site, Cameron MO (AIR)

JOB NUMBER

310-270120-1

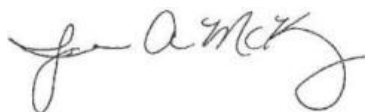
Eurofins Cedar Falls

Job Notes

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

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

Authorization



Generated
12/3/2023 6:48:51 PM

Authorized for release by
Jamie McKinney, Senior Project Manager
Jamie.McKinney@et.eurofinsus.com
(865)291-3000

Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Sample Summary	5
Detection Summary	6
Client Sample Results	7
Definitions	17
QC Sample Results	18
QC Association	24
Chronicle	25
Certification Summary	26
Method Summary	27
Chain of Custody	28
Receipt Checklists	30
Clean Canister Certification	31
Clean Canister Data	31



Case Narrative

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO (AIR)

Job ID: 310-270120-1

Job ID: 310-270120-1

Laboratory: Eurofins Cedar Falls

Narrative

Job Narrative 310-270120-1

Receipt

The samples were received on 11/21/2023 11:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice.

Air - GC/MS VOA

Methods TO 15 LL, TO-14A, TO-15: EPA methods TO-14A and TO-15 specify the use of humidified "zero air" as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of "zero air" by Eurofins TestAmerica Knoxville.

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

Sample Summary

Client: Tetra Tech EM Inc.

Job ID: 310-270120-1

Project/Site: Cameron City Park Site, Cameron MO (AIR)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
310-270120-1	SG-1	Air	11/16/23 09:09	11/21/23 11:15	Air Canister (6-Liter) #34000201
310-270120-2	SG-2	Air	11/16/23 10:33	11/21/23 11:15	Air Canister (6-Liter) #10554
310-270120-3	SG-3	Air	11/16/23 12:36	11/21/23 11:15	Air Canister (6-Liter) #10553
310-270120-4	SG-4	Air	11/16/23 14:27	11/21/23 11:15	Air Canister (6-Liter) #34000247
310-270120-5	SG-5	Air	11/17/23 09:22	11/21/23 11:15	Air Canister (6-Liter) #12399

Detection Summary

Client: Tetra Tech EM Inc.

Job ID: 310-270120-1

Project/Site: Cameron City Park Site, Cameron MO (AIR)

Client Sample ID: SG-1

Lab Sample ID: 310-270120-1

No Detections.

Client Sample ID: SG-2

Lab Sample ID: 310-270120-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	212	CI	178		ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	13.0		11.2		ug/m3	1		TO-15	Total/NA

Client Sample ID: SG-3

Lab Sample ID: 310-270120-3

No Detections.

Client Sample ID: SG-4

Lab Sample ID: 310-270120-4

No Detections.

Client Sample ID: SG-5

Lab Sample ID: 310-270120-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichlorofluoromethane	21.7		11.2		ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO (AIR)

Job ID: 310-270120-1

Client Sample ID: SG-1

Lab Sample ID: 310-270120-1

Date Collected: 11/16/23 09:09

Matrix: Air

Date Received: 11/21/23 11:15

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<10.9		10.9		ug/m3			11/30/23 13:55	1
1,1,2,2-Tetrachloroethane	<13.7		13.7		ug/m3			11/30/23 13:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<15.3		15.3		ug/m3			11/30/23 13:55	1
1,1,2-Trichloroethane	<10.9		10.9		ug/m3			11/30/23 13:55	1
1,1-Dichloroethane	<8.09		8.09		ug/m3			11/30/23 13:55	1
1,1-Dichloroethene	<7.93		7.93		ug/m3			11/30/23 13:55	1
1,2,4-Trichlorobenzene	<148		148		ug/m3			11/30/23 13:55	1
1,2,4-Trimethylbenzene	<9.83		9.83		ug/m3			11/30/23 13:55	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	<14.0		14.0		ug/m3			11/30/23 13:55	1
1,2-Dichlorobenzene	<24.0		24.0		ug/m3			11/30/23 13:55	1
1,2-Dichloroethane	<8.09		8.09		ug/m3			11/30/23 13:55	1
1,2-Dichloropropane	<9.24		9.24		ug/m3			11/30/23 13:55	1
1,3,5-Trimethylbenzene	<19.7		19.7		ug/m3			11/30/23 13:55	1
1,3-Dichlorobenzene	<12.0		12.0		ug/m3			11/30/23 13:55	1
1,4-Dichlorobenzene	<12.0		12.0		ug/m3			11/30/23 13:55	1
1,4-Dioxane	<180		180		ug/m3			11/30/23 13:55	1
2-Butanone (MEK)	<29.5		29.5		ug/m3			11/30/23 13:55	1
4-Methyl-2-pentanone (MIBK)	<41.0		41.0		ug/m3			11/30/23 13:55	1
Acetone	<178		178		ug/m3			11/30/23 13:55	1
Benzene	<6.39		6.39		ug/m3			11/30/23 13:55	1
Benzyl chloride	<41.4		41.4		ug/m3			11/30/23 13:55	1
Bromoform	<20.7		20.7		ug/m3			11/30/23 13:55	1
Bromomethane	<7.77		7.77		ug/m3			11/30/23 13:55	1
Carbon disulfide	<15.6		15.6		ug/m3			11/30/23 13:55	1
Carbon tetrachloride	<12.6		12.6		ug/m3			11/30/23 13:55	1
Chlorobenzene	<9.21		9.21		ug/m3			11/30/23 13:55	1
Dibromochloromethane	<17.0		17.0		ug/m3			11/30/23 13:55	1
Chloroethane	<21.1		21.1		ug/m3			11/30/23 13:55	1
Chloroform	<9.77		9.77		ug/m3			11/30/23 13:55	1
Chloromethane	<20.7		20.7		ug/m3			11/30/23 13:55	1
cis-1,2-Dichloroethene	<7.93		7.93		ug/m3			11/30/23 13:55	1
cis-1,3-Dichloropropene	<18.2		18.2		ug/m3			11/30/23 13:55	1
Cyclohexane	<17.2		17.2		ug/m3			11/30/23 13:55	1
Bromodichloromethane	<13.4		13.4		ug/m3			11/30/23 13:55	1
Dichlorodifluoromethane	<24.7		24.7		ug/m3			11/30/23 13:55	1
Ethylbenzene	<8.68		8.68		ug/m3			11/30/23 13:55	1
1,2-Dibromoethane (EDB)	<15.4		15.4		ug/m3			11/30/23 13:55	1
Hexachlorobutadiene	<107		107		ug/m3			11/30/23 13:55	1
Hexane	<28.2		28.2		ug/m3			11/30/23 13:55	1
Isopropyl alcohol	<123		123		ug/m3			11/30/23 13:55	1
Isopropylbenzene	<39.3		39.3		ug/m3			11/30/23 13:55	1
m-Xylene & p-Xylene	<34.7		34.7		ug/m3			11/30/23 13:55	1
Methyl tert-butyl ether	<36.1		36.1		ug/m3			11/30/23 13:55	1
Methylene Chloride	<34.7		34.7		ug/m3			11/30/23 13:55	1
Naphthalene	<26.2		26.2		ug/m3			11/30/23 13:55	1
o-Xylene	<8.68		8.68		ug/m3			11/30/23 13:55	1
Styrene	<8.52		8.52		ug/m3			11/30/23 13:55	1
Tetrachloroethene	<13.6		13.6		ug/m3			11/30/23 13:55	1

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Client Sample Results

Client: Tetra Tech EM Inc.

Job ID: 310-270120-1

Project/Site: Cameron City Park Site, Cameron MO (AIR)

Client Sample ID: SG-1

Lab Sample ID: 310-270120-1

Date Collected: 11/16/23 09:09

Matrix: Air

Date Received: 11/21/23 11:15

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<147		147		ug/m3			11/30/23 13:55	1
Toluene	<37.7		37.7		ug/m3			11/30/23 13:55	1
trans-1,2-Dichloroethene	<7.93		7.93		ug/m3			11/30/23 13:55	1
trans-1,3-Dichloropropene	<9.08		9.08		ug/m3			11/30/23 13:55	1
Trichloroethene	<10.7		10.7		ug/m3			11/30/23 13:55	1
Trichlorofluoromethane	<11.2		11.2		ug/m3			11/30/23 13:55	1
Vinyl acetate	<176		176		ug/m3			11/30/23 13:55	1
Vinyl bromide	<8.75		8.75		ug/m3			11/30/23 13:55	1
Vinyl chloride	<10.2		10.2		ug/m3			11/30/23 13:55	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO (AIR)

Job ID: 310-270120-1

Client Sample ID: SG-2

Lab Sample ID: 310-270120-2

Date Collected: 11/16/23 10:33

Matrix: Air

Date Received: 11/21/23 11:15

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<10.9		10.9		ug/m3			11/30/23 14:44	1
1,1,2,2-Tetrachloroethane	<13.7		13.7		ug/m3			11/30/23 14:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<15.3		15.3		ug/m3			11/30/23 14:44	1
1,1,2-Trichloroethane	<10.9		10.9		ug/m3			11/30/23 14:44	1
1,1-Dichloroethane	<8.09		8.09		ug/m3			11/30/23 14:44	1
1,1-Dichloroethene	<7.93		7.93		ug/m3			11/30/23 14:44	1
1,2,4-Trichlorobenzene	<148		148		ug/m3			11/30/23 14:44	1
1,2,4-Trimethylbenzene	<9.83		9.83		ug/m3			11/30/23 14:44	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	<14.0		14.0		ug/m3			11/30/23 14:44	1
1,2-Dichlorobenzene	<24.0		24.0		ug/m3			11/30/23 14:44	1
1,2-Dichloroethane	<8.09		8.09		ug/m3			11/30/23 14:44	1
1,2-Dichloropropane	<9.24		9.24		ug/m3			11/30/23 14:44	1
1,3,5-Trimethylbenzene	<19.7		19.7		ug/m3			11/30/23 14:44	1
1,3-Dichlorobenzene	<12.0		12.0		ug/m3			11/30/23 14:44	1
1,4-Dichlorobenzene	<12.0		12.0		ug/m3			11/30/23 14:44	1
1,4-Dioxane	<180		180		ug/m3			11/30/23 14:44	1
2-Butanone (MEK)	<29.5		29.5		ug/m3			11/30/23 14:44	1
4-Methyl-2-pentanone (MIBK)	<41.0		41.0		ug/m3			11/30/23 14:44	1
Acetone	212	CI	178		ug/m3			11/30/23 14:44	1
Benzene	<6.39		6.39		ug/m3			11/30/23 14:44	1
Benzyl chloride	<41.4		41.4		ug/m3			11/30/23 14:44	1
Bromoform	<20.7		20.7		ug/m3			11/30/23 14:44	1
Bromomethane	<7.77		7.77		ug/m3			11/30/23 14:44	1
Carbon disulfide	<15.6		15.6		ug/m3			11/30/23 14:44	1
Carbon tetrachloride	<12.6		12.6		ug/m3			11/30/23 14:44	1
Chlorobenzene	<9.21		9.21		ug/m3			11/30/23 14:44	1
Dibromochloromethane	<17.0		17.0		ug/m3			11/30/23 14:44	1
Chloroethane	<21.1		21.1		ug/m3			11/30/23 14:44	1
Chloroform	<9.77		9.77		ug/m3			11/30/23 14:44	1
Chloromethane	<20.7		20.7		ug/m3			11/30/23 14:44	1
cis-1,2-Dichloroethene	<7.93		7.93		ug/m3			11/30/23 14:44	1
cis-1,3-Dichloropropene	<18.2		18.2		ug/m3			11/30/23 14:44	1
Cyclohexane	<17.2		17.2		ug/m3			11/30/23 14:44	1
Bromodichloromethane	<13.4		13.4		ug/m3			11/30/23 14:44	1
Dichlorodifluoromethane	<24.7		24.7		ug/m3			11/30/23 14:44	1
Ethylbenzene	<8.68		8.68		ug/m3			11/30/23 14:44	1
1,2-Dibromoethane (EDB)	<15.4		15.4		ug/m3			11/30/23 14:44	1
Hexachlorobutadiene	<107		107		ug/m3			11/30/23 14:44	1
Hexane	<28.2		28.2		ug/m3			11/30/23 14:44	1
Isopropyl alcohol	<123		123		ug/m3			11/30/23 14:44	1
Isopropylbenzene	<39.3		39.3		ug/m3			11/30/23 14:44	1
m-Xylene & p-Xylene	<34.7		34.7		ug/m3			11/30/23 14:44	1
Methyl tert-butyl ether	<36.1		36.1		ug/m3			11/30/23 14:44	1
Methylene Chloride	<34.7		34.7		ug/m3			11/30/23 14:44	1
Naphthalene	<26.2		26.2		ug/m3			11/30/23 14:44	1
o-Xylene	<8.68		8.68		ug/m3			11/30/23 14:44	1
Styrene	<8.52		8.52		ug/m3			11/30/23 14:44	1
Tetrachloroethene	<13.6		13.6		ug/m3			11/30/23 14:44	1

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Client Sample Results

Client: Tetra Tech EM Inc.

Job ID: 310-270120-1

Project/Site: Cameron City Park Site, Cameron MO (AIR)

Client Sample ID: SG-2

Lab Sample ID: 310-270120-2

Date Collected: 11/16/23 10:33

Matrix: Air

Date Received: 11/21/23 11:15

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<147		147		ug/m3			11/30/23 14:44	1
Toluene	<37.7		37.7		ug/m3			11/30/23 14:44	1
trans-1,2-Dichloroethene	<7.93		7.93		ug/m3			11/30/23 14:44	1
trans-1,3-Dichloropropene	<9.08		9.08		ug/m3			11/30/23 14:44	1
Trichloroethene	<10.7		10.7		ug/m3			11/30/23 14:44	1
Trichlorofluoromethane	13.0		11.2		ug/m3			11/30/23 14:44	1
Vinyl acetate	<176		176		ug/m3			11/30/23 14:44	1
Vinyl bromide	<8.75		8.75		ug/m3			11/30/23 14:44	1
Vinyl chloride	<10.2		10.2		ug/m3			11/30/23 14:44	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO (AIR)

Job ID: 310-270120-1

Client Sample ID: SG-3

Lab Sample ID: 310-270120-3

Date Collected: 11/16/23 12:36

Matrix: Air

Date Received: 11/21/23 11:15

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<10.9		10.9		ug/m3			11/30/23 15:31	1
1,1,2,2-Tetrachloroethane	<13.7		13.7		ug/m3			11/30/23 15:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<15.3		15.3		ug/m3			11/30/23 15:31	1
1,1,2-Trichloroethane	<10.9		10.9		ug/m3			11/30/23 15:31	1
1,1-Dichloroethane	<8.09		8.09		ug/m3			11/30/23 15:31	1
1,1-Dichloroethene	<7.93		7.93		ug/m3			11/30/23 15:31	1
1,2,4-Trichlorobenzene	<148		148		ug/m3			11/30/23 15:31	1
1,2,4-Trimethylbenzene	<9.83		9.83		ug/m3			11/30/23 15:31	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	<14.0		14.0		ug/m3			11/30/23 15:31	1
1,2-Dichlorobenzene	<24.0		24.0		ug/m3			11/30/23 15:31	1
1,2-Dichloroethane	<8.09		8.09		ug/m3			11/30/23 15:31	1
1,2-Dichloropropane	<9.24		9.24		ug/m3			11/30/23 15:31	1
1,3,5-Trimethylbenzene	<19.7		19.7		ug/m3			11/30/23 15:31	1
1,3-Dichlorobenzene	<12.0		12.0		ug/m3			11/30/23 15:31	1
1,4-Dichlorobenzene	<12.0		12.0		ug/m3			11/30/23 15:31	1
1,4-Dioxane	<180		180		ug/m3			11/30/23 15:31	1
2-Butanone (MEK)	<29.5		29.5		ug/m3			11/30/23 15:31	1
4-Methyl-2-pentanone (MIBK)	<41.0		41.0		ug/m3			11/30/23 15:31	1
Acetone	<178		178		ug/m3			11/30/23 15:31	1
Benzene	<6.39		6.39		ug/m3			11/30/23 15:31	1
Benzyl chloride	<41.4		41.4		ug/m3			11/30/23 15:31	1
Bromoform	<20.7		20.7		ug/m3			11/30/23 15:31	1
Bromomethane	<7.77		7.77		ug/m3			11/30/23 15:31	1
Carbon disulfide	<15.6		15.6		ug/m3			11/30/23 15:31	1
Carbon tetrachloride	<12.6		12.6		ug/m3			11/30/23 15:31	1
Chlorobenzene	<9.21		9.21		ug/m3			11/30/23 15:31	1
Dibromochloromethane	<17.0		17.0		ug/m3			11/30/23 15:31	1
Chloroethane	<21.1		21.1		ug/m3			11/30/23 15:31	1
Chloroform	<9.77		9.77		ug/m3			11/30/23 15:31	1
Chloromethane	<20.7		20.7		ug/m3			11/30/23 15:31	1
cis-1,2-Dichloroethene	<7.93		7.93		ug/m3			11/30/23 15:31	1
cis-1,3-Dichloropropene	<18.2		18.2		ug/m3			11/30/23 15:31	1
Cyclohexane	<17.2		17.2		ug/m3			11/30/23 15:31	1
Bromodichloromethane	<13.4		13.4		ug/m3			11/30/23 15:31	1
Dichlorodifluoromethane	<24.7		24.7		ug/m3			11/30/23 15:31	1
Ethylbenzene	<8.68		8.68		ug/m3			11/30/23 15:31	1
1,2-Dibromoethane (EDB)	<15.4		15.4		ug/m3			11/30/23 15:31	1
Hexachlorobutadiene	<107		107		ug/m3			11/30/23 15:31	1
Hexane	<28.2		28.2		ug/m3			11/30/23 15:31	1
Isopropyl alcohol	<123		123		ug/m3			11/30/23 15:31	1
Isopropylbenzene	<39.3		39.3		ug/m3			11/30/23 15:31	1
m-Xylene & p-Xylene	<34.7		34.7		ug/m3			11/30/23 15:31	1
Methyl tert-butyl ether	<36.1		36.1		ug/m3			11/30/23 15:31	1
Methylene Chloride	<34.7		34.7		ug/m3			11/30/23 15:31	1
Naphthalene	<26.2		26.2		ug/m3			11/30/23 15:31	1
o-Xylene	<8.68		8.68		ug/m3			11/30/23 15:31	1
Styrene	<8.52		8.52		ug/m3			11/30/23 15:31	1
Tetrachloroethene	<13.6		13.6		ug/m3			11/30/23 15:31	1

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Client Sample Results

Client: Tetra Tech EM Inc.

Job ID: 310-270120-1

Project/Site: Cameron City Park Site, Cameron MO (AIR)

Client Sample ID: SG-3

Lab Sample ID: 310-270120-3

Date Collected: 11/16/23 12:36

Matrix: Air

Date Received: 11/21/23 11:15

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<147		147		ug/m3			11/30/23 15:31	1
Toluene	<37.7		37.7		ug/m3			11/30/23 15:31	1
trans-1,2-Dichloroethene	<7.93		7.93		ug/m3			11/30/23 15:31	1
trans-1,3-Dichloropropene	<9.08		9.08		ug/m3			11/30/23 15:31	1
Trichloroethene	<10.7		10.7		ug/m3			11/30/23 15:31	1
Trichlorofluoromethane	<11.2		11.2		ug/m3			11/30/23 15:31	1
Vinyl acetate	<176		176		ug/m3			11/30/23 15:31	1
Vinyl bromide	<8.75		8.75		ug/m3			11/30/23 15:31	1
Vinyl chloride	<10.2		10.2		ug/m3			11/30/23 15:31	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO (AIR)

Job ID: 310-270120-1

Client Sample ID: SG-4

Lab Sample ID: 310-270120-4

Date Collected: 11/16/23 14:27

Matrix: Air

Date Received: 11/21/23 11:15

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<10.9		10.9		ug/m3			12/01/23 15:14	1
1,1,2,2-Tetrachloroethane	<13.7		13.7		ug/m3			12/01/23 15:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<15.3		15.3		ug/m3			12/01/23 15:14	1
1,1,2-Trichloroethane	<10.9		10.9		ug/m3			12/01/23 15:14	1
1,1-Dichloroethane	<8.09		8.09		ug/m3			12/01/23 15:14	1
1,1-Dichloroethene	<7.93		7.93		ug/m3			12/01/23 15:14	1
1,2,4-Trichlorobenzene	<148		148		ug/m3			12/01/23 15:14	1
1,2,4-Trimethylbenzene	<9.83		9.83		ug/m3			12/01/23 15:14	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	<14.0		14.0		ug/m3			12/01/23 15:14	1
1,2-Dichlorobenzene	<24.0		24.0		ug/m3			12/01/23 15:14	1
1,2-Dichloroethane	<8.09		8.09		ug/m3			12/01/23 15:14	1
1,2-Dichloropropane	<9.24		9.24		ug/m3			12/01/23 15:14	1
1,3,5-Trimethylbenzene	<19.7		19.7		ug/m3			12/01/23 15:14	1
1,3-Dichlorobenzene	<12.0		12.0		ug/m3			12/01/23 15:14	1
1,4-Dichlorobenzene	<12.0		12.0		ug/m3			12/01/23 15:14	1
1,4-Dioxane	<180		180		ug/m3			12/01/23 15:14	1
2-Butanone (MEK)	<29.5		29.5		ug/m3			12/01/23 15:14	1
4-Methyl-2-pentanone (MIBK)	<41.0		41.0		ug/m3			12/01/23 15:14	1
Acetone	<178		178		ug/m3			12/01/23 15:14	1
Benzene	<6.39		6.39		ug/m3			12/01/23 15:14	1
Benzyl chloride	<41.4		41.4		ug/m3			12/01/23 15:14	1
Bromoform	<20.7		20.7		ug/m3			12/01/23 15:14	1
Bromomethane	<7.77		7.77		ug/m3			12/01/23 15:14	1
Carbon disulfide	<15.6		15.6		ug/m3			12/01/23 15:14	1
Carbon tetrachloride	<12.6		12.6		ug/m3			12/01/23 15:14	1
Chlorobenzene	<9.21		9.21		ug/m3			12/01/23 15:14	1
Dibromochloromethane	<17.0		17.0		ug/m3			12/01/23 15:14	1
Chloroethane	<21.1		21.1		ug/m3			12/01/23 15:14	1
Chloroform	<9.77		9.77		ug/m3			12/01/23 15:14	1
Chloromethane	<20.7		20.7		ug/m3			12/01/23 15:14	1
cis-1,2-Dichloroethene	<7.93		7.93		ug/m3			12/01/23 15:14	1
cis-1,3-Dichloropropene	<18.2		18.2		ug/m3			12/01/23 15:14	1
Cyclohexane	<17.2		17.2		ug/m3			12/01/23 15:14	1
Bromodichloromethane	<13.4		13.4		ug/m3			12/01/23 15:14	1
Dichlorodifluoromethane	<24.7		24.7		ug/m3			12/01/23 15:14	1
Ethylbenzene	<8.68		8.68		ug/m3			12/01/23 15:14	1
1,2-Dibromoethane (EDB)	<15.4		15.4		ug/m3			12/01/23 15:14	1
Hexachlorobutadiene	<107		107		ug/m3			12/01/23 15:14	1
Hexane	<28.2		28.2		ug/m3			12/01/23 15:14	1
Isopropyl alcohol	<123		123		ug/m3			12/01/23 15:14	1
Isopropylbenzene	<39.3		39.3		ug/m3			12/01/23 15:14	1
m-Xylene & p-Xylene	<34.7		34.7		ug/m3			12/01/23 15:14	1
Methyl tert-butyl ether	<36.1		36.1		ug/m3			12/01/23 15:14	1
Methylene Chloride	<34.7		34.7		ug/m3			12/01/23 15:14	1
Naphthalene	<26.2		26.2		ug/m3			12/01/23 15:14	1
o-Xylene	<8.68		8.68		ug/m3			12/01/23 15:14	1
Styrene	<8.52		8.52		ug/m3			12/01/23 15:14	1
Tetrachloroethene	<13.6		13.6		ug/m3			12/01/23 15:14	1

Eurofins Cedar Falls

Client Sample Results

Client: Tetra Tech EM Inc.

Job ID: 310-270120-1

Project/Site: Cameron City Park Site, Cameron MO (AIR)

Client Sample ID: SG-4

Lab Sample ID: 310-270120-4

Date Collected: 11/16/23 14:27

Matrix: Air

Date Received: 11/21/23 11:15

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<147		147		ug/m3			12/01/23 15:14	1
Toluene	<37.7		37.7		ug/m3			12/01/23 15:14	1
trans-1,2-Dichloroethene	<7.93		7.93		ug/m3			12/01/23 15:14	1
trans-1,3-Dichloropropene	<9.08		9.08		ug/m3			12/01/23 15:14	1
Trichloroethene	<10.7		10.7		ug/m3			12/01/23 15:14	1
Trichlorofluoromethane	<11.2		11.2		ug/m3			12/01/23 15:14	1
Vinyl acetate	<176		176		ug/m3			12/01/23 15:14	1
Vinyl bromide	<8.75		8.75		ug/m3			12/01/23 15:14	1
Vinyl chloride	<10.2		10.2		ug/m3			12/01/23 15:14	1

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO (AIR)

Job ID: 310-270120-1

Client Sample ID: SG-5

Lab Sample ID: 310-270120-5

Date Collected: 11/17/23 09:22

Matrix: Air

Date Received: 11/21/23 11:15

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<10.9		10.9		ug/m3			11/30/23 18:39	1
1,1,2,2-Tetrachloroethane	<13.7		13.7		ug/m3			11/30/23 18:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<15.3		15.3		ug/m3			11/30/23 18:39	1
1,1,2-Trichloroethane	<10.9		10.9		ug/m3			11/30/23 18:39	1
1,1-Dichloroethane	<8.09		8.09		ug/m3			11/30/23 18:39	1
1,1-Dichloroethene	<7.93		7.93		ug/m3			11/30/23 18:39	1
1,2,4-Trichlorobenzene	<148		148		ug/m3			11/30/23 18:39	1
1,2,4-Trimethylbenzene	<9.83		9.83		ug/m3			11/30/23 18:39	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	<14.0		14.0		ug/m3			11/30/23 18:39	1
1,2-Dichlorobenzene	<24.0		24.0		ug/m3			11/30/23 18:39	1
1,2-Dichloroethane	<8.09		8.09		ug/m3			11/30/23 18:39	1
1,2-Dichloropropane	<9.24		9.24		ug/m3			11/30/23 18:39	1
1,3,5-Trimethylbenzene	<19.7		19.7		ug/m3			11/30/23 18:39	1
1,3-Dichlorobenzene	<12.0		12.0		ug/m3			11/30/23 18:39	1
1,4-Dichlorobenzene	<12.0		12.0		ug/m3			11/30/23 18:39	1
1,4-Dioxane	<180		180		ug/m3			11/30/23 18:39	1
2-Butanone (MEK)	<29.5		29.5		ug/m3			11/30/23 18:39	1
4-Methyl-2-pentanone (MIBK)	<41.0		41.0		ug/m3			11/30/23 18:39	1
Acetone	<178		178		ug/m3			11/30/23 18:39	1
Benzene	<6.39		6.39		ug/m3			11/30/23 18:39	1
Benzyl chloride	<41.4		41.4		ug/m3			11/30/23 18:39	1
Bromoform	<20.7		20.7		ug/m3			11/30/23 18:39	1
Bromomethane	<7.77		7.77		ug/m3			11/30/23 18:39	1
Carbon disulfide	<15.6		15.6		ug/m3			11/30/23 18:39	1
Carbon tetrachloride	<12.6		12.6		ug/m3			11/30/23 18:39	1
Chlorobenzene	<9.21		9.21		ug/m3			11/30/23 18:39	1
Dibromochloromethane	<17.0		17.0		ug/m3			11/30/23 18:39	1
Chloroethane	<21.1		21.1		ug/m3			11/30/23 18:39	1
Chloroform	<9.77		9.77		ug/m3			11/30/23 18:39	1
Chloromethane	<20.7		20.7		ug/m3			11/30/23 18:39	1
cis-1,2-Dichloroethene	<7.93		7.93		ug/m3			11/30/23 18:39	1
cis-1,3-Dichloropropene	<18.2		18.2		ug/m3			11/30/23 18:39	1
Cyclohexane	<17.2		17.2		ug/m3			11/30/23 18:39	1
Bromodichloromethane	<13.4		13.4		ug/m3			11/30/23 18:39	1
Dichlorodifluoromethane	<24.7		24.7		ug/m3			11/30/23 18:39	1
Ethylbenzene	<8.68		8.68		ug/m3			11/30/23 18:39	1
1,2-Dibromoethane (EDB)	<15.4		15.4		ug/m3			11/30/23 18:39	1
Hexachlorobutadiene	<107		107		ug/m3			11/30/23 18:39	1
Hexane	<28.2		28.2		ug/m3			11/30/23 18:39	1
Isopropyl alcohol	<123		123		ug/m3			11/30/23 18:39	1
Isopropylbenzene	<39.3		39.3		ug/m3			11/30/23 18:39	1
m-Xylene & p-Xylene	<34.7		34.7		ug/m3			11/30/23 18:39	1
Methyl tert-butyl ether	<36.1		36.1		ug/m3			11/30/23 18:39	1
Methylene Chloride	<34.7		34.7		ug/m3			11/30/23 18:39	1
Naphthalene	<26.2		26.2		ug/m3			11/30/23 18:39	1
o-Xylene	<8.68		8.68		ug/m3			11/30/23 18:39	1
Styrene	<8.52		8.52		ug/m3			11/30/23 18:39	1
Tetrachloroethene	<13.6		13.6		ug/m3			11/30/23 18:39	1

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Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO (AIR)

Job ID: 310-270120-1

Client Sample ID: SG-5

Lab Sample ID: 310-270120-5

Date Collected: 11/17/23 09:22

Matrix: Air

Date Received: 11/21/23 11:15

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<147		147		ug/m3			11/30/23 18:39	1
Toluene	<37.7		37.7		ug/m3			11/30/23 18:39	1
trans-1,2-Dichloroethene	<7.93		7.93		ug/m3			11/30/23 18:39	1
trans-1,3-Dichloropropene	<9.08		9.08		ug/m3			11/30/23 18:39	1
Trichloroethene	<10.7		10.7		ug/m3			11/30/23 18:39	1
Trichlorofluoromethane	21.7		11.2		ug/m3			11/30/23 18:39	1
Vinyl acetate	<176		176		ug/m3			11/30/23 18:39	1
Vinyl bromide	<8.75		8.75		ug/m3			11/30/23 18:39	1
Vinyl chloride	<10.2		10.2		ug/m3			11/30/23 18:39	1

Definitions/Glossary

Client: Tetra Tech EM Inc.

Job ID: 310-270120-1

Project/Site: Cameron City Park Site, Cameron MO (AIR)

Qualifiers

Air - GC/MS VOA

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

QC Sample Results

Client: Tetra Tech EM Inc.

Job ID: 310-270120-1

Project/Site: Cameron City Park Site, Cameron MO (AIR)

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 140-80736/5

Matrix: Air

Analysis Batch: 80736

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.09		1.09		ug/m3			11/30/23 12:18	1
1,1,2,2-Tetrachloroethane	<1.37		1.37		ug/m3			11/30/23 12:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.53		1.53		ug/m3			11/30/23 12:18	1
1,1,2-Trichloroethane	<1.09		1.09		ug/m3			11/30/23 12:18	1
1,1-Dichloroethane	<0.809		0.809		ug/m3			11/30/23 12:18	1
1,1-Dichloroethene	<0.793		0.793		ug/m3			11/30/23 12:18	1
1,2,4-Trichlorobenzene	<14.8		14.8		ug/m3			11/30/23 12:18	1
1,2,4-Trimethylbenzene	<0.983		0.983		ug/m3			11/30/23 12:18	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	<1.40		1.40		ug/m3			11/30/23 12:18	1
1,2-Dichlorobenzene	<2.40		2.40		ug/m3			11/30/23 12:18	1
1,2-Dichloroethane	<0.809		0.809		ug/m3			11/30/23 12:18	1
1,2-Dichloropropane	<0.924		0.924		ug/m3			11/30/23 12:18	1
1,3,5-Trimethylbenzene	<1.97		1.97		ug/m3			11/30/23 12:18	1
1,3-Dichlorobenzene	<1.20		1.20		ug/m3			11/30/23 12:18	1
1,4-Dichlorobenzene	<1.20		1.20		ug/m3			11/30/23 12:18	1
1,4-Dioxane	<18.0		18.0		ug/m3			11/30/23 12:18	1
2-Butanone (MEK)	<2.95		2.95		ug/m3			11/30/23 12:18	1
4-Methyl-2-pentanone (MIBK)	<4.10		4.10		ug/m3			11/30/23 12:18	1
Acetone	<17.8		17.8		ug/m3			11/30/23 12:18	1
Benzene	<0.639		0.639		ug/m3			11/30/23 12:18	1
Benzyl chloride	<4.14		4.14		ug/m3			11/30/23 12:18	1
Bromoform	<2.07		2.07		ug/m3			11/30/23 12:18	1
Bromomethane	<0.777		0.777		ug/m3			11/30/23 12:18	1
Carbon disulfide	<1.56		1.56		ug/m3			11/30/23 12:18	1
Carbon tetrachloride	<1.26		1.26		ug/m3			11/30/23 12:18	1
Chlorobenzene	<0.921		0.921		ug/m3			11/30/23 12:18	1
Dibromochloromethane	<1.70		1.70		ug/m3			11/30/23 12:18	1
Chloroethane	<2.11		2.11		ug/m3			11/30/23 12:18	1
Chloroform	<0.977		0.977		ug/m3			11/30/23 12:18	1
Chloromethane	<2.07		2.07		ug/m3			11/30/23 12:18	1
cis-1,2-Dichloroethene	<0.793		0.793		ug/m3			11/30/23 12:18	1
cis-1,3-Dichloropropene	<1.82		1.82		ug/m3			11/30/23 12:18	1
Cyclohexane	<1.72		1.72		ug/m3			11/30/23 12:18	1
Bromodichloromethane	<1.34		1.34		ug/m3			11/30/23 12:18	1
Dichlorodifluoromethane	<2.47		2.47		ug/m3			11/30/23 12:18	1
Ethylbenzene	<0.868		0.868		ug/m3			11/30/23 12:18	1
1,2-Dibromoethane (EDB)	<1.54		1.54		ug/m3			11/30/23 12:18	1
Hexachlorobutadiene	<10.7		10.7		ug/m3			11/30/23 12:18	1
Hexane	<2.82		2.82		ug/m3			11/30/23 12:18	1
Isopropyl alcohol	<12.3		12.3		ug/m3			11/30/23 12:18	1
Isopropylbenzene	<3.93		3.93		ug/m3			11/30/23 12:18	1
m-Xylene & p-Xylene	<3.47		3.47		ug/m3			11/30/23 12:18	1
Methyl tert-butyl ether	<3.61		3.61		ug/m3			11/30/23 12:18	1
Methylene Chloride	<3.47		3.47		ug/m3			11/30/23 12:18	1
Naphthalene	<2.62		2.62		ug/m3			11/30/23 12:18	1
o-Xylene	<0.868		0.868		ug/m3			11/30/23 12:18	1
Styrene	<0.852		0.852		ug/m3			11/30/23 12:18	1
Tetrachloroethene	<1.36		1.36		ug/m3			11/30/23 12:18	1

Eurofins Cedar Falls

QC Sample Results

Client: Tetra Tech EM Inc.

Job ID: 310-270120-1

Project/Site: Cameron City Park Site, Cameron MO (AIR)

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-80736/5

Client Sample ID: Method Blank

Matrix: Air

Prep Type: Total/NA

Analysis Batch: 80736

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<14.7		14.7		ug/m3			11/30/23 12:18	1
Toluene	<3.77		3.77		ug/m3			11/30/23 12:18	1
trans-1,2-Dichloroethene	<0.793		0.793		ug/m3			11/30/23 12:18	1
trans-1,3-Dichloropropene	<0.908		0.908		ug/m3			11/30/23 12:18	1
Trichloroethene	<1.07		1.07		ug/m3			11/30/23 12:18	1
Trichlorofluoromethane	<1.12		1.12		ug/m3			11/30/23 12:18	1
Vinyl acetate	<17.6		17.6		ug/m3			11/30/23 12:18	1
Vinyl bromide	<0.875		0.875		ug/m3			11/30/23 12:18	1
Vinyl chloride	<1.02		1.02		ug/m3			11/30/23 12:18	1

Lab Sample ID: LCS 140-80736/3

Client Sample ID: Lab Control Sample

Matrix: Air

Prep Type: Total/NA

Analysis Batch: 80736

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	8.73	8.499		ug/m3		97	70 - 130
1,1,2,2-Tetrachloroethane	11.0	11.22		ug/m3		102	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	12.3	12.64		ug/m3		103	70 - 130
1,1,2-Trichloroethane	8.73	8.706		ug/m3		100	70 - 130
1,1-Dichloroethane	6.48	6.475		ug/m3		100	70 - 130
1,1-Dichloroethene	6.34	6.627		ug/m3		104	70 - 130
1,2,4-Trichlorobenzene	11.9	13.04		ug/m3		110	60 - 140
1,2,4-Trimethylbenzene	7.87	8.218		ug/m3		104	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	11.2	13.04		ug/m3		117	60 - 140
1,2-Dichlorobenzene	9.62	10.31		ug/m3		107	70 - 130
1,2-Dichloroethane	6.48	6.558		ug/m3		101	70 - 130
1,2-Dichloropropane	7.39	7.246		ug/m3		98	70 - 130
1,3,5-Trimethylbenzene	7.87	8.604		ug/m3		109	70 - 130
1,3-Dichlorobenzene	9.62	10.25		ug/m3		107	70 - 130
1,4-Dichlorobenzene	9.62	10.30		ug/m3		107	70 - 130
1,4-Dioxane	5.77	4.837	J	ug/m3		84	60 - 140
2-Butanone (MEK)	4.72	4.443		ug/m3		94	60 - 140
4-Methyl-2-pentanone (MIBK)	6.55	6.138		ug/m3		94	60 - 140
Acetone	3.80	4.687	J	ug/m3		123	60 - 140
Benzene	5.11	5.006		ug/m3		98	70 - 130
Benzyl chloride	8.28	8.364		ug/m3		101	70 - 130
Bromoform	16.5	19.18		ug/m3		116	60 - 140
Bromomethane	6.21	5.511		ug/m3		89	70 - 130
Carbon disulfide	4.98	4.896		ug/m3		98	70 - 130
Carbon tetrachloride	10.1	12.56		ug/m3		125	70 - 130
Chlorobenzene	7.37	7.437		ug/m3		101	70 - 130
Dibromochloromethane	13.6	14.50		ug/m3		106	70 - 130
Chloroethane	4.22	3.622		ug/m3		86	70 - 130
Chloroform	7.81	7.668		ug/m3		98	70 - 130
Chloromethane	3.30	3.085		ug/m3		93	60 - 140
cis-1,2-Dichloroethene	6.34	6.672		ug/m3		105	70 - 130
cis-1,3-Dichloropropene	7.26	7.696		ug/m3		106	70 - 130

Eurofins Cedar Falls

QC Sample Results

Client: Tetra Tech EM Inc.

Job ID: 310-270120-1

Project/Site: Cameron City Park Site, Cameron MO (AIR)

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-80736/3

Matrix: Air

Analysis Batch: 80736

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyclohexane	5.51	5.520		ug/m3		100	70 - 130
Bromodichloromethane	10.7	10.86		ug/m3		101	70 - 130
Dichlorodifluoromethane	7.91	9.643		ug/m3		122	60 - 140
Ethylbenzene	6.95	7.184		ug/m3		103	70 - 130
1,2-Dibromoethane (EDB)	12.3	12.54		ug/m3		102	70 - 130
Hexachlorobutadiene	17.1	15.54		ug/m3		91	60 - 140
Hexane	5.64	5.312		ug/m3		94	70 - 130
Isopropyl alcohol	3.93	4.157	J	ug/m3		106	60 - 140
Isopropylbenzene	7.87	8.282		ug/m3		105	70 - 130
m-Xylene & p-Xylene	13.9	16.00		ug/m3		115	70 - 130
Methyl tert-butyl ether	5.77	6.071		ug/m3		105	60 - 140
Methylene Chloride	5.56	5.613		ug/m3		101	70 - 130
Naphthalene	8.39	8.474		ug/m3		101	60 - 140
o-Xylene	6.95	7.259		ug/m3		104	70 - 130
Styrene	6.82	7.332		ug/m3		108	70 - 130
Tetrachloroethene	10.9	10.88		ug/m3		100	70 - 130
Tetrahydrofuran	4.72	4.495	J	ug/m3		95	60 - 140
Toluene	6.03	6.258		ug/m3		104	70 - 130
trans-1,2-Dichloroethene	6.34	6.430		ug/m3		101	70 - 130
trans-1,3-Dichloropropene	7.26	8.082		ug/m3		111	70 - 130
Trichloroethene	8.60	8.783		ug/m3		102	70 - 130
Trichlorofluoromethane	8.99	9.343		ug/m3		104	60 - 140
Vinyl acetate	5.63	5.330	J	ug/m3		95	60 - 140
Vinyl bromide	7.00	7.891		ug/m3		113	60 - 140
Vinyl chloride	4.09	3.745		ug/m3		92	70 - 130

Lab Sample ID: MB 140-80800/6

Matrix: Air

Analysis Batch: 80800

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.09		1.09		ug/m3			12/01/23 14:26	1
1,1,2,2-Tetrachloroethane	<1.37		1.37		ug/m3			12/01/23 14:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.53		1.53		ug/m3			12/01/23 14:26	1
1,1,2-Trichloroethane	<1.09		1.09		ug/m3			12/01/23 14:26	1
1,1-Dichloroethane	<0.809		0.809		ug/m3			12/01/23 14:26	1
1,1-Dichloroethene	<0.793		0.793		ug/m3			12/01/23 14:26	1
1,2,4-Trichlorobenzene	<14.8		14.8		ug/m3			12/01/23 14:26	1
1,2,4-Trimethylbenzene	<0.983		0.983		ug/m3			12/01/23 14:26	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	<1.40		1.40		ug/m3			12/01/23 14:26	1
1,2-Dichlorobenzene	<2.40		2.40		ug/m3			12/01/23 14:26	1
1,2-Dichloroethane	<0.809		0.809		ug/m3			12/01/23 14:26	1
1,2-Dichloropropane	<0.924		0.924		ug/m3			12/01/23 14:26	1
1,3,5-Trimethylbenzene	<1.97		1.97		ug/m3			12/01/23 14:26	1
1,3-Dichlorobenzene	<1.20		1.20		ug/m3			12/01/23 14:26	1
1,4-Dichlorobenzene	<1.20		1.20		ug/m3			12/01/23 14:26	1
1,4-Dioxane	<18.0		18.0		ug/m3			12/01/23 14:26	1
2-Butanone (MEK)	<2.95		2.95		ug/m3			12/01/23 14:26	1
4-Methyl-2-pentanone (MIBK)	<4.10		4.10		ug/m3			12/01/23 14:26	1

Eurofins Cedar Falls

QC Sample Results

Client: Tetra Tech EM Inc.

Job ID: 310-270120-1

Project/Site: Cameron City Park Site, Cameron MO (AIR)

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-80800/6

Client Sample ID: Method Blank

Matrix: Air

Prep Type: Total/NA

Analysis Batch: 80800

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<17.8		17.8		ug/m3			12/01/23 14:26	1
Benzene	<0.639		0.639		ug/m3			12/01/23 14:26	1
Benzyl chloride	<4.14		4.14		ug/m3			12/01/23 14:26	1
Bromoform	<2.07		2.07		ug/m3			12/01/23 14:26	1
Bromomethane	<0.777		0.777		ug/m3			12/01/23 14:26	1
Carbon disulfide	<1.56		1.56		ug/m3			12/01/23 14:26	1
Carbon tetrachloride	<1.26		1.26		ug/m3			12/01/23 14:26	1
Chlorobenzene	<0.921		0.921		ug/m3			12/01/23 14:26	1
Dibromochloromethane	<1.70		1.70		ug/m3			12/01/23 14:26	1
Chloroethane	<2.11		2.11		ug/m3			12/01/23 14:26	1
Chloroform	<0.977		0.977		ug/m3			12/01/23 14:26	1
Chloromethane	<2.07		2.07		ug/m3			12/01/23 14:26	1
cis-1,2-Dichloroethene	<0.793		0.793		ug/m3			12/01/23 14:26	1
cis-1,3-Dichloropropene	<1.82		1.82		ug/m3			12/01/23 14:26	1
Cyclohexane	<1.72		1.72		ug/m3			12/01/23 14:26	1
Bromodichloromethane	<1.34		1.34		ug/m3			12/01/23 14:26	1
Dichlorodifluoromethane	<2.47		2.47		ug/m3			12/01/23 14:26	1
Ethylbenzene	<0.868		0.868		ug/m3			12/01/23 14:26	1
1,2-Dibromoethane (EDB)	<1.54		1.54		ug/m3			12/01/23 14:26	1
Hexachlorobutadiene	<10.7		10.7		ug/m3			12/01/23 14:26	1
Hexane	<2.82		2.82		ug/m3			12/01/23 14:26	1
Isopropyl alcohol	<12.3		12.3		ug/m3			12/01/23 14:26	1
Isopropylbenzene	<3.93		3.93		ug/m3			12/01/23 14:26	1
m-Xylene & p-Xylene	<3.47		3.47		ug/m3			12/01/23 14:26	1
Methyl tert-butyl ether	<3.61		3.61		ug/m3			12/01/23 14:26	1
Methylene Chloride	<3.47		3.47		ug/m3			12/01/23 14:26	1
Naphthalene	<2.62		2.62		ug/m3			12/01/23 14:26	1
o-Xylene	<0.868		0.868		ug/m3			12/01/23 14:26	1
Styrene	<0.852		0.852		ug/m3			12/01/23 14:26	1
Tetrachloroethene	<1.36		1.36		ug/m3			12/01/23 14:26	1
Tetrahydrofuran	<14.7		14.7		ug/m3			12/01/23 14:26	1
Toluene	<3.77		3.77		ug/m3			12/01/23 14:26	1
trans-1,2-Dichloroethene	<0.793		0.793		ug/m3			12/01/23 14:26	1
trans-1,3-Dichloropropene	<0.908		0.908		ug/m3			12/01/23 14:26	1
Trichloroethene	<1.07		1.07		ug/m3			12/01/23 14:26	1
Trichlorofluoromethane	<1.12		1.12		ug/m3			12/01/23 14:26	1
Vinyl acetate	<17.6		17.6		ug/m3			12/01/23 14:26	1
Vinyl bromide	<0.875		0.875		ug/m3			12/01/23 14:26	1
Vinyl chloride	<1.02		1.02		ug/m3			12/01/23 14:26	1

Lab Sample ID: LCS 140-80800/1002

Client Sample ID: Lab Control Sample

Matrix: Air

Prep Type: Total/NA

Analysis Batch: 80800

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	8.73	9.029		ug/m3		103	70 - 130
1,1,2,2-Tetrachloroethane	11.0	10.49		ug/m3		95	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	12.3	11.94		ug/m3		97	70 - 130

Eurofins Cedar Falls

QC Sample Results

Client: Tetra Tech EM Inc.

Job ID: 310-270120-1

Project/Site: Cameron City Park Site, Cameron MO (AIR)

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-80800/1002

Matrix: Air

Analysis Batch: 80800

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	8.73	8.222		ug/m3		94	70 - 130
1,1-Dichloroethane	6.48	6.252		ug/m3		97	70 - 130
1,1-Dichloroethene	6.34	6.029		ug/m3		95	70 - 130
1,2,4-Trichlorobenzene	11.9	11.63		ug/m3		98	60 - 140
1,2,4-Trimethylbenzene	7.87	7.663		ug/m3		97	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	11.2	11.22		ug/m3		100	60 - 140
1,2-Dichlorobenzene	9.62	9.557		ug/m3		99	70 - 130
1,2-Dichloroethane	6.48	6.793		ug/m3		105	70 - 130
1,2-Dichloropropane	7.39	6.848		ug/m3		93	70 - 130
1,3,5-Trimethylbenzene	7.87	7.164		ug/m3		91	70 - 130
1,3-Dichlorobenzene	9.62	9.386		ug/m3		98	70 - 130
1,4-Dichlorobenzene	9.62	9.662		ug/m3		100	70 - 130
1,4-Dioxane	5.77	5.090	J	ug/m3		88	60 - 140
2-Butanone (MEK)	4.72	4.064		ug/m3		86	60 - 140
4-Methyl-2-pentanone (MIBK)	6.55	5.937		ug/m3		91	60 - 140
Acetone	11.4	9.255		ug/m3		81	60 - 140
Benzene	5.11	4.550		ug/m3		89	70 - 130
Benzyl chloride	8.28	7.841		ug/m3		95	70 - 130
Bromoform	16.5	18.59		ug/m3		112	60 - 140
Bromomethane	6.21	6.236		ug/m3		100	70 - 130
Carbon disulfide	4.98	4.652		ug/m3		93	70 - 130
Carbon tetrachloride	10.1	10.13		ug/m3		101	70 - 130
Chlorobenzene	7.37	6.802		ug/m3		92	70 - 130
Dibromochloromethane	13.6	13.71		ug/m3		101	70 - 130
Chloroethane	4.22	3.970		ug/m3		94	70 - 130
Chloroform	7.81	7.793		ug/m3		100	70 - 130
Chloromethane	3.30	3.156		ug/m3		96	60 - 140
cis-1,2-Dichloroethene	6.34	6.112		ug/m3		96	70 - 130
cis-1,3-Dichloropropene	7.26	7.455		ug/m3		103	70 - 130
Cyclohexane	5.51	5.036		ug/m3		91	70 - 130
Bromodichloromethane	10.7	10.61		ug/m3		99	70 - 130
Dichlorodifluoromethane	7.91	6.754		ug/m3		85	60 - 140
Ethylbenzene	6.95	6.784		ug/m3		98	70 - 130
1,2-Dibromoethane (EDB)	12.3	11.74		ug/m3		96	70 - 130
Hexachlorobutadiene	17.1	16.04		ug/m3		94	60 - 140
Hexane	5.64	5.240		ug/m3		93	70 - 130
Isopropyl alcohol	11.8	9.559		ug/m3		81	60 - 140
Isopropylbenzene	7.87	7.720		ug/m3		98	70 - 130
m-Xylene & p-Xylene	13.9	14.66		ug/m3		106	70 - 130
Methyl tert-butyl ether	5.77	5.811		ug/m3		101	60 - 140
Methylene Chloride	5.56	5.179		ug/m3		93	70 - 130
Naphthalene	8.39	7.434		ug/m3		89	60 - 140
o-Xylene	6.95	7.082		ug/m3		102	70 - 130
Styrene	6.82	6.862		ug/m3		101	70 - 130
Tetrachloroethene	10.9	10.30		ug/m3		95	70 - 130
Tetrahydrofuran	4.72	4.150	J	ug/m3		88	60 - 140
Toluene	6.03	5.829		ug/m3		97	70 - 130
trans-1,2-Dichloroethene	6.34	5.981		ug/m3		94	70 - 130

Eurofins Cedar Falls

QC Sample Results

Client: Tetra Tech EM Inc.

Job ID: 310-270120-1

Project/Site: Cameron City Park Site, Cameron MO (AIR)

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-80800/1002

Matrix: Air

Analysis Batch: 80800

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
trans-1,3-Dichloropropene	7.26	7.502		ug/m3		103	70 - 130
Trichloroethene	8.60	8.418		ug/m3		98	70 - 130
Trichlorofluoromethane	8.99	9.305		ug/m3		104	60 - 140
Vinyl acetate	5.63	4.501	J	ug/m3		80	60 - 140
Vinyl bromide	7.00	6.551		ug/m3		94	60 - 140
Vinyl chloride	4.09	4.064		ug/m3		99	70 - 130

QC Association Summary

Client: Tetra Tech EM Inc.

Job ID: 310-270120-1

Project/Site: Cameron City Park Site, Cameron MO (AIR)

Air - GC/MS VOA

Analysis Batch: 80736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-270120-1	SG-1	Total/NA	Air	TO-15	
310-270120-2	SG-2	Total/NA	Air	TO-15	
310-270120-3	SG-3	Total/NA	Air	TO-15	
310-270120-5	SG-5	Total/NA	Air	TO-15	
MB 140-80736/5	Method Blank	Total/NA	Air	TO-15	
LCS 140-80736/3	Lab Control Sample	Total/NA	Air	TO-15	

Analysis Batch: 80800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-270120-4	SG-4	Total/NA	Air	TO-15	
MB 140-80800/6	Method Blank	Total/NA	Air	TO-15	
LCS 140-80800/1002	Lab Control Sample	Total/NA	Air	TO-15	

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Cameron City Park Site, Cameron MO (AIR)

Job ID: 310-270120-1

Client Sample ID: SG-1

Lab Sample ID: 310-270120-1

Date Collected: 11/16/23 09:09

Matrix: Air

Date Received: 11/21/23 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		1	80736	S1K	EET KNX	11/30/23 13:55

Client Sample ID: SG-2

Lab Sample ID: 310-270120-2

Date Collected: 11/16/23 10:33

Matrix: Air

Date Received: 11/21/23 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		1	80736	S1K	EET KNX	11/30/23 14:44

Client Sample ID: SG-3

Lab Sample ID: 310-270120-3

Date Collected: 11/16/23 12:36

Matrix: Air

Date Received: 11/21/23 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		1	80736	S1K	EET KNX	11/30/23 15:31

Client Sample ID: SG-4

Lab Sample ID: 310-270120-4

Date Collected: 11/16/23 14:27

Matrix: Air

Date Received: 11/21/23 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		1	80800	AFB	EET KNX	12/01/23 15:14

Client Sample ID: SG-5

Lab Sample ID: 310-270120-5

Date Collected: 11/17/23 09:22

Matrix: Air

Date Received: 11/21/23 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		1	80736	S1K	EET KNX	11/30/23 18:39

Laboratory References:

EET KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Accreditation/Certification Summary

Client: Tetra Tech EM Inc.

Job ID: 310-270120-1

Project/Site: Cameron City Park Site, Cameron MO (AIR)

Laboratory: Eurofins Knoxville

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

Authority	Program	Identification Number	Expiration Date
	AFCEE	N/A	
ANAB	Dept. of Defense ELAP	L2311	02-13-25
ANAB	Dept. of Energy	L2311.01	02-13-25
ANAB	ISO/IEC 17025	L2311	02-13-25
Arkansas DEQ	State	88-0688	06-16-24
Colorado	State	TN00009	02-29-24
Connecticut	State	PH-0223	09-30-25
Florida	NELAP	E87177	06-30-24
Georgia (DW)	State	906	07-27-25
Hawaii	State	NA	07-27-24
Kansas	NELAP	E-10349	10-31-24
Kentucky (DW)	State	90101	12-31-23
Louisiana (All)	NELAP	83979	06-30-24
Louisiana (DW)	State	LA019	12-31-23
Maryland	State	277	03-31-24
Michigan	State	9933	07-27-25
Nevada	State	TN00009	07-31-24
New Hampshire	NELAP	2999	01-17-24
New Jersey	NELAP	TN001	07-01-24
New York	NELAP	10781	03-31-24
North Carolina (DW)	State	21705	07-31-24
North Carolina (WW/SW)	State	64	12-31-23
Oklahoma	State	9415	12-31-23
Oregon	NELAP	TNI0189	01-01-24
Pennsylvania	NELAP	68-00576	12-01-23
Tennessee	State	02014	07-27-25
Texas	NELAP	T104704380-23-18	08-31-24
US Fish & Wildlife	US Federal Programs	058448	07-31-24
USDA	US Federal Programs	525-22-279-18762	10-06-25
Utah	NELAP	TN00009	07-31-24
Virginia	NELAP	460176	09-14-24
Washington	State	C593	01-19-24
West Virginia (DW)	State	9955C	12-31-23
West Virginia DEP	State	345	04-30-24
Wisconsin	State	998044300	08-31-24

Method Summary

Client: Tetra Tech EM Inc.

Job ID: 310-270120-1

Project/Site: Cameron City Park Site, Cameron MO (AIR)

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	EET KNX

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EET KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

EUROFINS/TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Are the shipping containers intact?	/			<input type="checkbox"/> Containers, Broken	
2. Were ambient air containers received intact?			/	<input checked="" type="checkbox"/> Checked in lab	
3. The coolers/containers custody seal if present, is it intact?	/			<input type="checkbox"/> Yes <input type="checkbox"/> NA	
4. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10 °C) Thermometer ID : <u>5C76</u> Correction factor: <u>+0.40C</u>			/	<input type="checkbox"/> Cooler Out of Temp, Client Contacted, Proceed/Cancel <input type="checkbox"/> Cooler Out of Temp, Same Day Receipt	
5. Were all of the sample containers received intact?	/			<input type="checkbox"/> Containers, Broken	
6. Were samples received in appropriate containers?	/			<input type="checkbox"/> Containers, Improper; Client Contacted; Proceed/Cancel	
7. Do sample container labels match COC? (IDs, Dates, Times)	/			<input type="checkbox"/> COC & Samples Do Not Match <input type="checkbox"/> COC Incorrect/Incomplete <input type="checkbox"/> COC Not Received	
8. Were all of the samples listed on the COC received?	/			<input type="checkbox"/> Sample Received, Not on COC <input type="checkbox"/> Sample on COC, Not Received	
9. Is the date/time of sample collection noted?	/			<input type="checkbox"/> COC; No Date/Time; Client Contacted	
10. Was the sampler identified on the COC?	/			<input type="checkbox"/> Sampler Not Listed on COC	
11. Is the client and project name/# identified?	/			<input type="checkbox"/> COC Incorrect/Incomplete	
12. Are tests/parameters listed for each sample?	/			<input type="checkbox"/> COC No tests on COC	
13. Is the matrix of the samples noted?	/			<input type="checkbox"/> COC Incorrect/Incomplete	
14. Was COC relinquished? (Signed/Dated/Timed)	/			<input type="checkbox"/> COC Incorrect/Incomplete	
15. Were samples received within holding time?	/			<input type="checkbox"/> Holding Time - Receipt	
16. Were samples received with correct chemical preservative (excluding Encore)?			/	<input type="checkbox"/> pH Adjusted, pH Included (See box 16A) <input type="checkbox"/> Incorrect Preservative	
17. Were VOA samples received without headspace?			/	<input type="checkbox"/> Headspace (VOA only)	
18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number:			/	<input type="checkbox"/> Residual Chlorine	
19. For 1613B water samples is pH<9?			/	<input type="checkbox"/> If no, notify lab to adjust	
20. For rad samples was sample activity info. Provided?			/	<input type="checkbox"/> Project missing info	
Project #: <u>31016768</u> PM Instructions: _____					

Labeling Verified by: _____ Date: _____

pH test strip lot number: _____

Box 16A: pH Preservation	Box 18A: Residual Chlorine
Preservative: _____	
Lot Number: _____	
Exp Date: _____	
Analyst: _____	
Date: _____	
Time: _____	

QA026R32.doc, 062719

Date: 11-21-23

Sample Receiving Associate: Chm Ndelman

- 1
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- 14
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310-270120-A-1

Page 30 of 37

MS038 r16, 2/12/22
12/3/2023

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Knoxville Job No.: 140-34230-1
 SDG No.: _____
 Client Sample ID: 09917 Lab Sample ID: 140-34230-1
 Matrix: Air Lab File ID: GK06LOT34230A1.D
 Analysis Method: TO 15 LL Date Collected: 11/03/2023 12:55
 Sample wt/vol: 500 (mL) Date Analyzed: 11/06/2023 09:43
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 Purge Volume: _____ Heated Purge: (Y/N) _____ pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 79774 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.040	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		0.16	
106-93-4	1,2-Dibromoethane	ND		0.080	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
108-67-8	1,3,5-Trimethylbenzene	ND		0.16	
106-99-0	1,3-Butadiene	ND	*+	0.16	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
90-12-0	1-Methylnaphthalene	ND		1.0	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-93-3	2-Butanone	ND		0.32	
95-49-8	2-Chlorotoluene	ND		0.16	
591-78-6	2-Hexanone	ND		0.20	
78-78-4	2-Methylbutane	ND	*+	0.20	
91-57-6	2-Methylnaphthalene	ND		1.0	
107-83-5	2-Methylpentane	ND		0.080	
107-05-1	3-Chloroprene	ND		0.080	

FORM I
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 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 79774 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
622-96-8	4-Ethyltoluene	ND		0.16	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
67-64-1	Acetone	ND		2.0	
75-05-8	Acetonitrile	ND		0.40	
107-02-8	Acrolein	ND		0.40	
107-13-1	Acrylonitrile	ND		0.80	
98-83-9	Alpha Methyl Styrene	ND		0.16	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
75-27-4	Bromodichloromethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
74-83-9	Bromomethane	ND	++	0.080	
106-97-8	Butane	ND	++	0.16	
75-15-0	Carbon disulfide	ND		0.20	
56-23-5	Carbon tetrachloride	ND		0.032	
108-90-7	Chlorobenzene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
75-00-3	Chloroethane	ND	++	0.080	
67-66-3	Chloroform	ND		0.080	
74-87-3	Chloromethane	ND	++	0.20	
156-59-2	cis-1,2-Dichloroethene	ND		0.040	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
98-82-8	Cumene	ND		0.16	
110-82-7	Cyclohexane	ND		0.20	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
75-71-8	Dichlorodifluoromethane	ND		0.080	
64-17-5	Ethanol	ND	++	2.0	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
100-41-4	Ethylbenzene	ND		0.080	
87-68-3	Hexachlorobutadiene	ND		0.080	
110-54-3	Hexane	ND		0.20	
496-11-7	Indane	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

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 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 Purge Volume: _____ Heated Purge: (Y/N) _____ pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 79774 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
95-13-6	Indene	ND		0.16	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
108-87-2	Methylcyclohexane	ND		0.080	
75-09-2	Methylene Chloride	ND		0.40	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
91-20-3	Naphthalene	ND		0.20	
104-51-8	n-Butylbenzene	ND		0.16	
124-18-5	n-Decane	ND		0.40	
112-40-3	n-Dodecane	ND		0.40	
142-82-5	n-Heptane	ND		0.20	
111-84-2	n-Nonane	ND		0.20	
111-65-9	n-Octane	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
95-47-6	o-Xylene	ND		0.080	
99-87-6	p-Cymene	ND		0.080	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		1.0	
135-98-8	sec-Butylbenzene	ND		0.16	
100-42-5	Styrene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
98-06-6	tert-Butylbenzene	ND		0.20	
127-18-4	Tetrachloroethene	ND		0.040	
109-99-9	Tetrahydrofuran	ND		0.40	
110-02-1	Thiophene	ND		0.080	
108-88-3	Toluene	ND		0.12	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
79-01-6	Trichloroethene	ND		0.036	
75-69-4	Trichlorofluoromethane	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	

FORM I
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Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
Purge Volume: _____ Heated Purge: (Y/N) _____ pH: _____
% Moisture: _____ % Solids: _____ Level: (low/med) Low
Analysis Batch No.: 79774 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
75-01-4	Vinyl chloride	ND	++	0.040	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins Knoxville Job No.: 140-34230-1
 SDG No.: _____
 Client Sample ID: 09917 Lab Sample ID: 140-34230-1
 Matrix: Air Lab File ID: GK06LOT34230A1.D
 Analysis Method: TO 15 LL Date Collected: 11/03/2023 12:55
 Sample wt/vol: 500 (mL) Date Analyzed: 11/06/2023 09:43
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 Purge Volume: _____ Heated Purge: (Y/N) _____ pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 79774 Units: ppb v/v

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
488-23-3	1,2,3,4-Tetramethylbenzene TIC		ND		
527-53-7	1,2,3,5-Tetramethylbenzene TIC		ND		
934-80-5	1,2-Dimethyl-4-Ethylbenzene TIC		ND		
872-55-9	2-Ethylthiophene TIC		ND		
554-14-3	2-Methylthiophene TIC		ND		
616-44-4	3-Methylthiophene TIC		ND		
95-15-8	Benzo(b)thiophene TIC		ND		

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\MG\20231102-30335.b\GK06LOT34230A1.D
 Lims ID: 140-34230-A-1
 Client ID: 09917
 Sample Type: Client
 Inject. Date: 06-Nov-2023 09:43:30 ALS Bottle#: 3 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0030335-005
 Misc. Info.: 09917
 Operator ID: Instrument ID: MG
 Method: \\chromfs\Knoxville\ChromData\MG\20231102-30335.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 07-Nov-2023 10:40:15 Calib Date: 11-Oct-2023 01:12:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\MG\20231010-30018.b\GJ10L7.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: CTX1684

First Level Reviewer: khachitpongpanits

Date:

07-Nov-2023 10:40:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.322	9.322	0.000	90	282259	3.76	
* 2 1,4-Difluorobenzene	114	11.500	11.500	0.000	95	1726444	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.192	16.192	0.000	89	1337816	3.92	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.836	17.874	-0.038	88	902257	3.34	
7 Propene	41	3.827	3.822	0.005	71	2171	0.0243	7
31 Methylene Chloride	84	6.647	6.647	0.000	92	19914	0.1760	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

40MXISSUR_00003

Amount Added: 40.00

Units: mL

Run Reagent

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\MG\20231102-30335.b\GK06LOT34230A1.D

Injection Date: 06-Nov-2023 09:43:30

Instrument ID: MG

Operator ID:

Lims ID: 140-34230-A-1

Lab Sample ID: 140-34230-1

Worklist Smp#: 5

Client ID: 09917

Purge Vol: 5.000 mL

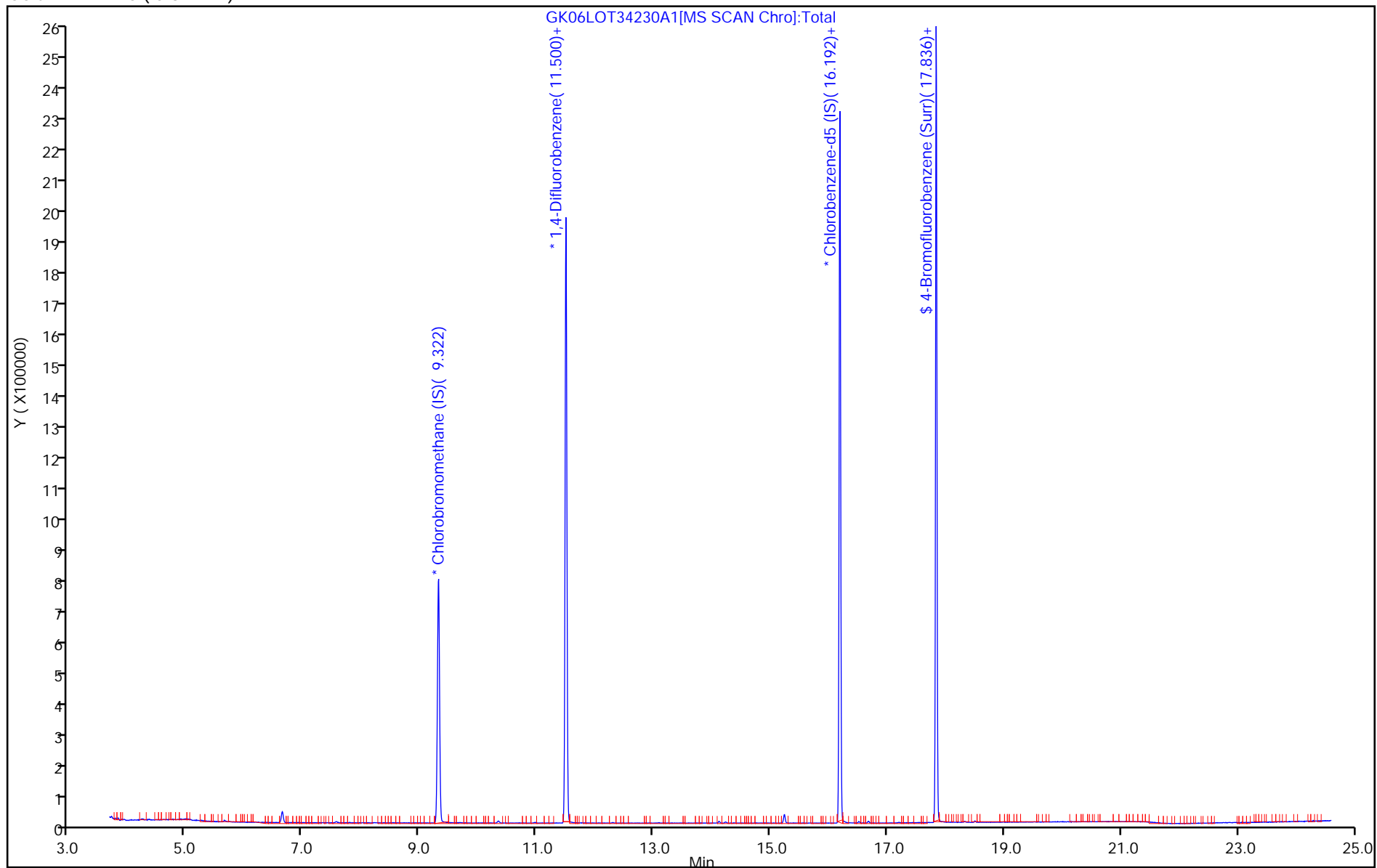
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



DATA VERIFICATION REPORT

Prepared by: Ellen McEntee
Date: December 7, 2023
Site Name/Job Number: Cameron City Park / 103G65210190.20.03
Laboratory: Eurofins Environment Testing – Cedar Falls, IA
Data Package or SDG Number: 310-270120-1
Sample Designations/Names (ID):

SG-1
SG-5

SG-2

SG-3

SG-4

Matrices: Soil Gas
Analytical Parameters: Volatile Organic Compounds (VOCs) by TO-15

Data Package Element	Usable	Rejected	NA	Description of Affected Data (note specific samples and analytical parameters affected)
Chain of custody	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The chain of custody form was complete and the requested analyses were performed.
Data package completeness	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	All appropriate elements are included.
Sample preservation, storage, and holding times	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Samples were received at the laboratory at ambient temperature. All holding times were met.
Method and field blank contamination	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Target analytes were not detected in the method blanks.
Surrogate spikes	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Surrogate spikes are not required for this method.
Matrix spikes/matrix spike duplicates (MS/MSD)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	MS/MSDs are not required for this method. The LCS indicates the instrument was in control.
Laboratory control samples/Laboratory control sample duplicates (LCS/LCSD)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The LCS met QC acceptance criteria.
Other	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Acetone in sample SG-2 was flagged "CI" by the laboratory, indicating that the peak identified by the data system exhibited chromatographic interference that could not be resolved and there is reason to suspect there may be a high bias. The result was qualified as estimated, with possible high bias (flagged J+) during data validation.
Summary The data is usable as qualified during data validation.				